1 NEW YORK STATE ENERGY RESEARCH & DEVELOPMENT AUTHORITY 2 \_\_\_\_\_\_ 3 Public Hearing on the Draft Energy Plan 2014 4 5 6 DATE: March 3, 2014 7 TIME: 1:09 p.m. - 4:58 p.m. 8 LOCATION: SUNY Farmingdale Little Theater at Roosevelt Hall 9 Melville Road Farmingdale, New York 10 11 HELD BEFORE: 12 John Rhodes, President of NYSERDA 13 Judith Lee, Executive Deputy of the Public Service Commission 14 Jared Snyder, Assistant Commissioner of New York State 15 Department of Environmental Conservation 16 17 18 19 20 21 REPORTED BY: Jeanne O'Connell, RPR (518) 271-7904 22 23

1 CHAIRMAN RHODES: Good afternoon, and 2 welcome. My name is John Rhodes, and I am President 3 and CEO of the New York State Energy Research and Development Authority and I am here today as chair of 4 5 the State Energy Planning Board. I would like to introduce to you the other 6 7 representatives of the planning board joining me 8 today. Judy Lee, Executive Deputy of the Public Service Commission, and Jared Snyder, Assistant 9 10 Commissioner of the Department of Environmental Conservation. 11 12 Before we get started, some housekeeping. 13 First of all, thanks to our host, Farmingdale State 14 College. The exits are marked around the sides here. 15 The restrooms are out the doors and to your left 16 around the curve. 17 We are guests here, so I will just go on 18 record as asking for decorum in all these comments. 19 The prior hearings have been really exemplary in that 20 respect, so it's been a very good process. 21 Also, we are joined by Terry Maromme of 22 Public Access today who is going to be filming these 23 proceedings. I think just as a courtesy to you, the

private citizens of the audience, I wanted to make 1 2 you aware of that. This is a hearing to accept public comments 3 on the 2014 Draft State Energy Plan. It was approved 4 5 by the State Energy Planning Board on January 7, 2014 6 and made available on the energy plan website, energyplan.ny.gov. 7 8 The plan was issued in accordance with 9 Article 6 of the Energy Law. Public notice of the issuance of the plan and notice of the public hearing 10 were published in the State Register on January 29, 11 2014. 12 This draft plan is the result of some 13 serious, thoughtful work, and it envisions an energy 14 system that is clean, flexible, affordable, resilient 15 and reliable. 16 It lays out initiatives to achieve that 17 vision that focused on five areas: Improving energy 18 affordability, unleashing the power of private sector 19 funding, providing a more resilient and flexible 20 power grid to give customers more control over their 21 energy use, aligning energy innovation with market 22 23 demand.

1 Accordingly, the plan outlines long term 2 policy goals, near term action items, and meaningful 3 metrics. 4 The draft plan consists of two volumes. 5 The first volume provides 15 key initiatives to advance the state's energy future. 6 7 The second volume addresses energy uses, 8 sources and impacts, and provides a detailed 9 background that was used to develop the overarching mission and the initiatives in the first volume. 10 11 This is one of six public hearing sessions 12 that were planned to receive public comments. The 13 remaining session is scheduled for Syracuse. Written comments on the draft plan will 14 15 also be accepted through April 30, 2014, and 16 information on submitting written comments can be 17 found on the energy plan website. 1.8 If you decide to submit written comments, 19 please do so as soon as possible so that they can be 20 carefully considered. All comments, whether oral or 21 written, will be considered by the Energy Planning 22 Board as the board works toward issuance of the final 23 energy plan. All comments count equally regardless

of how they were received. The planning board is
 targeting issuance of the final plan in the spring of
 2014.

4 The process today is simple. Those who 5 want to comment at this hearing have been asked to 6 sign in upon arrival. Your name will be called one 7 at a time to speak. When your name is called, please 8 come to the podium to provide your statement. I will 9 try to make a practice of also announcing the name of 10 the following speaker, the on deck person, so to 11 speak.

The court reporter is here today to provide a transcript to the planning board of everything that is said today. It is very important that there be only one speaker at a time so that the reporter can hear clearly.

17 Speakers should address their comments in 18 the direction of the microphone and please make an 19 effort to speak clearly and slowly. Also, she may 20 call for a break. She is the only one who has that 21 authority.

It is also very important that those in attendance may be courteous to the speakers so that

his or her comments can be transcribed accurately by the court reporter. If you provide a statement and have a written version with you, it would be helpful if you would provide that written version to us either today or following the hearing so that we can provide those to the court reporter to assist in providing the transcript.

8 All speakers are asked to focus on issues 9 that pertain to the Draft Energy Plan only. Your comments should be as succinct as possible so that we 10 can hear from as many of you as possible. We have 11 set a five minute deadline for that purpose, but of 12 course after everyone has had a chance to address the 13 board, repeat speakers may be afforded another five 14 minutes should the hearing time permit. 15

Formal presentations, such as Power Point, are not being allowed today. Again, our goal is to hear from as many of you as possible. As this is a statement hearing, the planning board is not entertaining questions. This is an opportunity for us to receive feedback on the draft plan.

Those who want to comment but do not want to speak publicly or do not get a chance to do so,

1	again, can submit written comments via our website.
2	Again, that's energyplan.ny.gov.
3	With that, I want to thank you all again
4	for coming today, and ask if there are any questions
5	about the process, and we can take any of those at
6	this time.
7	SPEAKER: How are you indicating time?
8	CHAIRMAN RHODES: My colleague Carl has a
9	coaching sign. Thank you.
10	Are there any further process questions?
11	(There was no response.)
12	Seeing none, I will call our first speaker.
13	Warren Woodge, followed by Eleanor Krebs.
14	MR. WOODGE: Hello, I am Warren Woodge.
15	How many of you are tired of all the
16	shoveling snow? Okay. Where have all the sidewalks
17	gone? Long time passing. Where have all the sidewalks
18	gone? Two months ago. Where have all the sidewalks
19	gone? Under blizzards everyone. Oh, when will we ever
20	learn? Oh, when will we ever learn?
21	Are you sick of shoveling all this snow?
22	Fracking and fossil fuels and extra energy added to our
23	atmosphere changed the climate, and cause more frequent

.

1	and more heavy snowstorms. So, we don't want that. We
2	don't want it anywhere in the State of New York.
3	By the way, for those of you who don't know
4	I am sure all of you do every Monday call Governor
5	Cuomo 1-866-961-3208 and tell him to ban fracking
6	throughout New York State. Tell him your name, where
7	you live, and tell Governor Cuomo to ban fracking
8	throughout the state. Again, the phone number,
9	1-866-961-3208. Thank you.
10	CHAIRMAN RHODES: Thank you very much.
11	Eleanor Krebs, followed by Gregory Atherton.
12	MS. KREBS: I am Eleanor Krebs. I'm from
13	Farmingdale. I've lived here for 52 years. I love New
14	York and I love Long Island.
15	I feel that fracking has proved in other
16	parts of the country to be very harmful to the soil, air
17	and water. Once you contaminate the soil, air and water
18	you don't get it back again.
19	Fracking will not do us any good in the long
20	run. It may be a temporary remedy to get a little more
21	gas or oil from the ground, and it will help us a little
22	bit, but in the long run we're going to have to depend
23	on renewable energy like solar energy, wind energy,

ſ

.

1 water energy.

2	These are the things we need to work on in
3	New York State and all over the country. For that
4	matter, all over the world. We need to have renewable
5	energy which does not harm our environment. It will not
6	do us any good to frack a bit and postpone the day when
7	we need to depend entirely on renewable energy, but that
8	day will come and we don't want to destroy the earth.
9	I have called on Governor Cuomo to ban
10	fracking in New York State. Thank you.
11	CHAIRMAN RHODES: Thank you very much.
12	Gregory Atherton, followed by Dr. Matthew
13	Cordaro.
14	MR. ATHERTON: Hello. My name is Gregory
15	Atherton. I am chief of staff for Assemblyman
16	Lupinacci. He apologizes to everyone for not being here
17	today. He's attending to his duties as a legislator in
18	Albany.
19	But Assemblyman Lupinacci, not only has he
20	been a leader in education as a member of the ranking
21	member of the higher education committee, but he also
22	sees how education and the environment ties together.
23	For example, he was a big proponent of the
	FOI example, ne was a big proponent of the

.

solar carport here on these very grounds at Farmingdale 1 State College. He knows and hopes that that's only 2 3 going to be the beginning of the research and the projects that are going to be following in the coming 4 5 months and years. 6 Assemblyman Lupinacci has prepared a 7 statement for today's meeting here. It can be viewed on 8 Youtube at Lupinacci's Energy Plan. And he's always 9 available for meetings in Albany and on his Long Island office, which is located in Huntington Station at 1783 10 New York Avenue. His phone number is 631-271-8025. 11 That's 631-271-8025. Thanks for this opportunity. 12 13 CHAIRMAN RHODES: Thank you very much. Dr. Matthew Cordaro, followed by Lisa 14 Oldendorp. 15 My name is Matthew Cordaro, 16 DR. CORDARO: and I have spent over 40 years within the energy and 17 utility sectors, including service as the CEO of 18 Nashville Electric, one of the 10 largest public 19 utilities in the nation; and as the president and CEO of 20 21 the Midwest Independent System Operator, one of the 22 largest grid operators in the United States. 23 Long Island is my home and the place I

cherish. It is this deep-seated affection for my 1 2 community, along with my professional interests, that have kept me active on the issues of energy and 3 4 sustainability, a key ingredient in safeguarding the 5 fine quality of life we all enjoy from Merrick to Manorhaven to Montauk. 6 7 The governor's Draft 2014 State Energy Plan focuses on a number of positive initiatives that, if 8 successful, will be good for all of Long Islanders and 9 10all New Yorkers. These include the focus on improving energy 11 12 affordability, promoting private sector engagement and 13 financing, and working to bolster our electric grid. However, there are a number of points within the plan 14 that are debatable and require further consideration. 15 16 First, having been deeply involved in the industry for decades, I am reasonably sure that demand 17 18 for electricity will ultimately increase despite the recent flat trend. 19 20 In 2009, New York put forth a goal of reducing electricity consumption by 15 percent by 2015, 21 22 yet since that time consumption has grown by 2.5 percent at a time the economy has been soft. 23

Based on this, the state should be more 1 2 realistic about the potential of energy efficiency initiatives, and openly accept that more generating 3 resources will be required. 4 5 Second, there has been a troublesome trend among New York policymakers to trumpet the potential of 6 relying more and more on out of state and even out of 7 the country power resources. We simply cannot achieve 8 9 more affordable power in New York in the long run if we do not increase the amount of in state power sources. 10 At present, efforts are underway to expand 11 access to natural gas energy in New York, especially on 12 Long Island. This is encouraging, because 13 infrastructure constraints have caused the price of 14 natural gas to significantly increase recently. 15 Of particular importance is keeping our 16 existing power sources, especially our state's six 17 nuclear power plants, online. The ongoing campaign to 18 close Indian Point, a major asset to New York's power 19 supply, is deeply concerning because Indian Point 20 provides 2,000 megawatts of reliable, affordable base 21 load energy and serves as the foundation of our electric 22 23 grid.

Long Island lost a major opportunity to have 1 an affordable energy system when it prematurely shut 2 3 down the Shoreham nuclear facility. This saddled Long Islanders with \$6 billion in debt and imposed some of 4 5 the highest electric rates in the nation, which persist today. 6 7 I very much support the goal of working to unleash the power of private sector energy financing; 8 however, there must be a level playing field for this to 9 be effective. The state government cannot selectively 10 subsidize some projects. 11 We should learn from Germany's mistakes. 12 13 The country's policy of heavy subsidies for intermittent power sources, specifically wind and solar, have driven 14 energy costs through the roof. 15 A recent report from IHS, a leading global 16 energy research firm, found that Germany's rising 17 electricity costs are making the country less 18 competitive internationally, and also found that the 19 country will need to rely more heavily on fossil fuel 20 21 sources. While wind and solar can and should have a 22 23 significant role in our energy supply, they are

1 inadequate alone to meet our energy needs. Until 2 effective utility scale energy storage becomes 3 available, which may be many decades down the road, we 4 will either need base load energy sources, like coal, 5 natural gas, nuclear and hydro, or we will need to have all intermittent power sources backed up by spinning 6 7 reserves of natural gas power plants. The latter isn't cost effective in the long 8 9 run, to say the least, nor is it efficient and 10 environmentally friendly. Along these lines, before the state commits \$1 billion to the Green Bank, we should 11 12 clearly define how these funds will be spent, and study 13 how these costs will impact and benefit ratepayers. 14 As you sit and construct the final plan, I 15 urge you to look at the big picture of our energy needs, 16 and how we can meet our growing energy needs while also 17 supporting the state's economy. 18 And I encourage you to construct a final 19 plan that builds on many of the positive initiatives 20 that are outlined in the draft report, while also 21 modifying those proposals that do not. 22 Thank you. 23 CHAIRMAN RHODES: Thank you very much.

Lisa Oldendorp, followed by Lou Sabatini. 1 Thank you very much for this 2 MS. OLDENDORP: opportunity. 3 New York has a unique opportunity to lead 4 the nation in renewable energy. To reach this goal, the 5 energy plan for New York State must move away from 6 increased investments in gas infrastructure, and must 7 protect our families and water from the devastating 8 effects of fracking. 9 Yesterday, I returned from a visit with my 10 sister who lives in Edmond, Oklahoma, just outside of 11 Oklahoma City. I arrived there on Sunday, February 12 23rd. Earlier in the day, at around two o'clock, a 2.6 13 magnitude earthquake was recorded just six miles north 14 of my sister's home. 15 At 6:11 p.m. the same day, a 3.2 earthquake 16 was recorded just 40 miles northeast of where I was 17 staying. The next day, a 3.0 earthquake was recorded 18 about 25 miles southeast of my sister's home. Then 19 20 around 10:44 the next morning, a 3.2 magnitude earthquake was recorded a mere 20 miles northeast of 21 22 where I was. During the previous seven days, the US 23

Geological Survey reported 31 earthquakes in Oklahoma,
 including 27 with at least a 2.7 magnitude. Earthquakes
 have occurred in Oklahoma before, but never with the
 frequency.

5 From 1975 to 2008, central Oklahoma 6 experienced only one to three 3.0 magnitude earthquakes 7 per year. From January 1st to February 20th of 2014, 8 central Oklahoma alone has experienced 25 earthquakes of 9 3.0 magnitude or greater. In fact, the entire state of 10 Oklahoma has already experienced 500 earthquakes of any 11 magnitude since January 1st of this year.

Oklahoma is home to more than 4,400 deep 12 13 injection disposal wells. A 2011 study published in the journal Geology found that liquid injection wells 14 triggered a sequence of earthquakes in Oklahoma. 15 Katie Keranen, a geophysics professor at 16 Cornell, says the evidence is strong that the 17 earthquakes are caused by wastewater disposal, which has 18 19 become more frequent amid today's boom in oil and gas 20 drilling.

In addition, there are other dangers in the fracking process, which include escaping methane gas into the air, the 600 or so chemicals added to the water

used in the fracking process, many of which are toxic to 1 2 humans and animals, the noise and air pollution from the 3 compressors used to frack the wells, and the very high risk of polluting a town's, county's, or even state's 4 5 water supply. There is another side effect of fracking 6 7 that has recently come into the spotlight: A shortage of clean water. In southwest Texas and much of Oklahoma 8 9 there is a severe shortage of pure water. Fracking requires millions of gallons of clean, fresh water each 10 time a well is fracked, and each well can be fracked as 11 many as 12 times. 12 Fracking wastewater, a bi-product of the 13 process, must be disposed of mostly by injecting it deep 14 into wells often near fracking sites. 15 A desperate Texas has tried to buy water 16 from Oklahoma. A huge lake near my sister, Lake 17 Heffner, was a recent target. However, Oklahoma now has 18 laws to prevent another state from taking its water. 19 To be sure, fracking will lead to future 20 water wars as people search for new sources of clean, 21 potable water. Once the water is contaminated, it can 22 23 never be purified due to the added chemicals.

The people of New York do not want fracking 1 to come to New York State. Nearby Pennsylvania is 2 experiencing many of the same problems that are already 3 present in prevalent states that have been fracking much 4 5 longer. Governor Cuomo must take the lead by moving 6 7 New York into a clean energy future. Continued reliance on fracked gas and other fossil fuels will send us 8 backward, not forward. New York's energy plan should 9 lead the way by greatly increasing green sources, like 10 wind and solar -- and greatly reducing dependence on gas 11 12 and oil. 13 In reference to the last speaker's comments that wind and solar, I believe that Dr. Mark something, 14 I can't remember his name. 15 CHAIRMAN RHODES: I am sure it's Mark 16 17 Jacobson. MS. OLDENDORP: Mark Jacobson, thank you. 18 Already presented Governor Cuomo with a plan 19 to make New York State energy free by 2030. So, it can 20 There has to be a will to do it. 21 be done. 22 CHAIRMAN RHODES: Thank you very much. 23 Lou Sabatini, followed by Eric Weltman.

I'm a resident of Massapequa. 1 MR. SABATINI: 2 A year and a half ago I had the unfortunate experience of sitting inside my house, watching my home 3 being filled with water from the flood surge of Sandy. 4 It was a devastating experience, and thousands of my 5 6 neighbors underwent the same experience. 7 An organization called 350.org has produced 8 scientific evidence that there's a link between carbon that is being produced by fossil fuels and other sources 9 that are dumped into the atmosphere, and the climate 10 change that we have been seeing, the devastating storms, 11 the monster tornados and hurricanes and so forth. 12 So, I strongly advise and advocate that we 13 ban fracking from New York State, we continue to keep it 14 out of New York State and keep it out of all the 15 sources, because I think once the damage is done, it's 16 going to be hard to reverse it. And the longer we wait, 17 18 the more fossil fuels we burn, the more permanent damage we do to our environment. 19 20 Thank you. Eric Weltman, I'm senior 21 MR. WELTMAN: organizer with Food and Water Watch, a national 22 non-profit consumer organization based in our Brooklyn 23

1	office.	
2	I am here to urge Governor Cuomo to ban	
3	fracking, lead New York in a transition to renewable	
4	energy, as well as veto the proposed Port Ambrose	
5	liquified natural gas facility.	
6	In October of 2012, Hurricane Sandy slammed	
7	New York, devastating communities across the region.	
8	Even today, many victims of this climate disaster are	
9	struggling to pick up the pieces and put their homes and	
10	neighborhoods back together.	
11	The question today, the question today is	
12	whether Governor Cuomo will be a leader in preventing	
13	further climate catastrophe. The question today, the	
14	question today is whether Governor Cuomo will lead New	
15	York in a transition to renewable energy, or deepen our	
16	reliance on the dirty fossil fuels that cause climate	
17	catastrophes, like Hurricane Sandy.	
18	Unfortunately, Governor Cuomo's current	
19	Draft Plan would maintain New York's dependence on	
20	fossil fuels. It would enable a massive build out of	
21	pipelines, compressor stations, storage facilities,	
22	power plants, and other infrastructure, and would rely	
23	on fracking in other states and stimulate the demand for	

even more fracking. 1 Already, New York's landscape is becoming 2 littered with dirty and dangerous infrastructure 3 projects, from a compressor station in Minisink, to the 4 Spectra pipeline in Manhattan, and even more being 5 proposed, such as the storage facility in Seneca Lake, 6 and Port Ambrose, liquified natural gas terminal off of 7 8 Long Beach. These projects risk public safety, our 9 communities and the environment, and they enable 10 11 fracking, which threatens our water, air, food and 12 climate. We want to highlight the imperative for 13 14 Governor Cuomo to veto the Port Ambrose proposal. This is something fully within his authority and he should 15 16 act on it. Port Ambrose would threaten the shore sensitive ecology upon which so much of our region's 17 culture, community and economy are dependent, and it 18 would promote more fracking, because contrary to the 19 20 proposed plan, the project is clearly being built to 21 export gas. The threat of further climate catastrophe is 22 particularly stark down in Long Island. Burning natural 23

1	gas will lead to dangerous levels of carbon dioxide;
2	more problematic, fracking for natural gas releases
3	massive amounts of methane.
4	Methane is an extremely potent greenhouse
5	gas, 33 times more efficient at trapping heat than
6	carbon dioxide over a hundred years, and about a hundred
7	times more potent than carbon dioxide over 20 years.
8	The simple truth, the simple truth is that
9	Governor Cuomo cannot lead on climate change and allow
10	fracking in New York. Governor Cuomo cannot lead on
11	climate change and rely on fracked gas from other
12	states.
13	If Governor Cuomo has any hope, any genuine
14	real expectation of attaining his goal of reducing
15	greenhouse gas emissions by 80 percent, he must not and
16	he cannot allow fracking in New York.
17	The bottom line is this: New York should
18	not spend another dime on deepening our dependence on
19	natural gas or enabling fracking here or anywhere.
20	Governor Cuomo should ban fracking in New York, he
21	should veto the Port Ambrose LNG facility, and use the
22	full extent of his authority to stop other
23	infrastructure projects.

.

Г

22

1	And he should lead, he should lead on
2	preventing climate change by producing a plan that
3	transitions New York to a clean renewable energy future.
4	Thank you.
5	CHAIRMAN RHODES: Thank you very much.
6	Clinton Plummer, followed Jay Blackman.
7	MR. PLUMMER: Thank you. My name is Clinton
8	Plummer. I'm vice president of development with Deep
9	Water Wind. And I would like to thank you for giving us
10	this opportunity to speak. We are delighted to be here.
11	I would like to start by applauding the
12	administration on its leadership in economic development
13	and renewable energy policy. With innovative programs
14	like New York Sun, New York Energy Highway, and the
15	launch of the Green Bank, Governor Cuomo is comitted to
16	being a leader in this position.
17	I would also like to commend the plan that
18	has come out in its commitment to exploring resource
19	diversity, the potential to use the plan to create
20	economic development as an opportunity to explore
21	replacement for retiring fossil plants, and as a means
22	of promoting private investment.
23	I would like to request that going forward

the plan needs to take into consideration opportunities 1 2 specific to Long Island. One of those opportunities is 3 offshore wind, which lines up very well with all of 4 those things. 5 Offshore wind has the ability to deliver 6 energy cost effectively when and where it's needed by 7 producing peak output during the middle of the day. 8 It also has the ability to deliver peak output during the middle of the winter when Long Island 9 gas system is most constrained. 10 Offshore wind has the unique ability to 11 create a large local industry that could put hundreds of 12 people here on Long Island to work. We have seen this 13 take effect all around the world. There are 58,000 14 people currently employed in the offshore wind industry 15 globally, with potential to actually reach 200,000 by 16 the end of this decade. 17 18 That's something that could be done here on The US Department of Energy estimates that 19 Long Island. by 2030 there is as many as 70,000 jobs potential in 20 just the US east coast alone. Even capturing a portion 21 of that would be an absolute boom for the Long Island 22 23 economy.

1	Offshore wind also has the unique ability to
2	be cost competitive in delivering energy to a
3	constrained coastal population, densely populated areas,
4	where it's difficult and costly to deliver new forms of
5	energy.
6	With that, I would like to ask that the plan
7	consider opportunities to develop offshore wind, and for
8	the state to take a position in the advancement of this
9	new technology.
10	Thank you very much.
11	CHAIRMAN RHODES: Jay Blackman, followed by
12	Anne Hughes.
13	MR. BLACKMAN: I also would like to thank
14	you for the opportunity to speak to you about something
15	that I am very passionate about. My name is Jay
16	Blackman. I am a member of MoveOn.org, public citizen,
17	and Sierra Club.
18	I am here today to tell you how in March of
19	2012 I bore witness to a region of northeastern
20	Pennsylvania that had been a bucolic, pastoral place,
21	now turned into a nightmare for many of its residents
22	due to hydrofracking.
23	We left Long Island as a group of
:	

Г

, ----, .

environmental people early on a Saturday morning. 1 And it was a shock to get to the small farming town in 2 3 Bradford County, Pennsylvania, when we had people board our bus from the area, local farmers, telling us that 4 5 people were developing chronic cases of nose bleeds, 6 gastrointestinal problems. 7 They told us that clinics had been set up by 8 the hydrofracking company to take care of the many people who were becoming "mysteriously" ill, but had to 9

11 to the suspected cause of the illness.

10

12 The large tanks of potable water being 13 delivered to their homes by the fracking company because 14 their own water became undrinkable.

agree not to talk to the press or anyone in authority as

We were taken to a home in the area that had a hydrofracking well about 200 feet from the house of where we had been invited. We were shown brown water running out of the kitchen faucet. And also a constant flame of burnt off methane gas came from the top of a hundred foot structure over the well.

There also happened to be a dead cow lying in a field covered with insects, and someone in our group also noticed that there was an eerie silence due 1 to the lack of birds.

2	In addition, we were told during the week
3	there persisted a constant parade of trucks carrying
4	water, brine and chemicals on their local roads, causing
5	noise, traffic problems and road damage.
6	From all that I witnessed and heard from
7	residents, I hope that you are as convinced as I that
8	you must not allow this to happen in our state. You
9	must protect our families, our water and our
10	infrastructure from the damaging effects of
11	hydrofracking.
12	Our president has comitted our nation to
13	energy by sustainable resources, like wind and solar.
14	We must heed his vision and not allow the harm to
15	communities as I have seen in Pennsylvania.
16	Thank you.
17	CHAIRMAN RHODES: Thank you very much.
18	Anne Hughes, followed by Roger Clayman.
19	MS. HUGHES: Good afternoon. I am a member
20	of several environmental groups, but I don't have a
21	prepared statement. I had no idea that I would be
22	sitting up here.
23	I'm a 40-year resident of Long Island. I'm

a grandmother of three beautiful young grandchildren.
 And I personally have just had solar panels installed on
 my roof.

4 And although solar and wind are not going to 5 take the place of oil and gas immediately, I think the governor needs to propose more incentives for people to 6 7 drive electric cars, to install solar panels when they Solar companies now have a deal with LIPA where 8 can. 9 you don't even have to buy the solar panels. You merely lease them. And the outlay of cash is minimal, if 10 11 anything.

I know I live in Smithtown and I was 12 13 encouraged because the building inspector told me that he is inspecting five solar systems a week in my 14 township alone. So, if people have the incentive, they 15 16 want the solar panels. They want the clean energy. If the governor can do anything to encourage that, it's 17 18 better than building infrastructures for more gas and 19 oil. 20 Thank you. 21 CHAIRMAN RHODES: Thank you very much. 22 Roger Clayman, followed by George Povall. 23 My name is Roger Clayman. MR. CLAYMAN: Ι

am the Executive Director of the Long Island Federation 1 2 of Labor. 3 I want to thank you for developing this comprehensive plan and for listening to the voices of 4 5 Long Islanders, who have had a first-hand experience on the front lines with climate and weather-related 6 7 disasters, and know quite well firsthand the fragility of our energy infrastructure. 8 9 There is no clear consensus within our labor movement about the balance in our energy supply between 10 fossil fuel and renewable energy sources. And the 11 reason for this is our commitment to representing our 12 13 members who are employed by utilities currently powered 14 by traditional fuels. 15 We hope you will keep that issue of good jobs at the forefront of your thinking about our energy 16 17 future -- the jobs associated with power plants, electrical and gas transmission, and the maintenance of 18 these facilities. 19 20 The unionized jobs in this sector are the 21 foundation of economic vitality in communities all 22 across New York, including jobs in call centers, which 23 are the lifeline between the public utilities and the

1	public that is served by them.
2	At the same time, we recognize that climate
3	change is real. It affects our membership not only as
4	citizens and consumers, but also as workers.
5	Our members were on the front lines with the
6	devastation and cleanup from Hurricane Sandy. Many are
7	still repairing their homes and recovering financially.
8	Our labor movement is fully committed to the
9	green economy and the vast potential that lies before us
10	to create new jobs and to protect the planet at the same
11	time. We are engaged in every aspect of solar energy
12	and solar electrical production at this point, and we
13	look forward to working with these new ideas about wind.
14	We have become very impressed with the ideas
15	put forth by Clinton Plummer, who spoke just before me,
16	the tall guy, and we look forward to working to see that
17	that's developed.
18	We urge you to stay on course with the
19	targets for renewable energy in New York. Without clear
20	goals and timetables, green jobs and the new economy are
21	unlikely to be created.
22	We ask you to keep good jobs in mind
23	throughout the discussion, and ensure that offshore wind

1	energy plays a major role in generating clean energy for
2	New York in the years ahead.
3	Thank you.
4	CHAIRMAN RHODES: George Povall.
5	MR. POVALL: My name is George Povall. I am
6	here today to speak as a citizen. I'm also forming my
7	own group called Povall Hour Energy, which is designed
8	to be outreach from the public seeking to become more
9	involved in issues of energy independence and how we get
10	our energy.
11	I want to thank you, Ms. Lee, Mr. Rhodes,
12	Mr. Snyder, Jeanne, for being here today. I know it's
13	not easy to sit here and listen to me and everybody
14	else.
15	You have heard it all. I am not going to
16	say it better than anybody else has. As a citizen, I
17	would like to say that we need to make more commitments
18	towards renewable energy.
19	We have a huge resource sitting offshore
20	here, which really is just a waste not to be using it,
21	and it's really a waste not to be putting more effort
22	into developing it in a huge way. It's being done
23	everywhere else in the world. It's proven.

Г

I would really just like to ask for the 1 2 governor to put a little bit more of a target or a 3 little bit of oomph behind it, saying, let's have a vision. Let's say we can do more. Let's say, who has 4 5 got the ideas? Bring them forward. Let's do more. 6 I think this would be very important to 7 unleash the green energy economy that, really, everybody 8 agrees is just waiting to be had here. We could build 9 the whole east coast here for them to put them in New Jersey, Maryland. 10 11 There's lots of great plans. I think we need to have a clear and more concise, but very 12 13 energetic and opportunistic, plan to take advantage of 14 both the resource and the potential for what it could 15 mean for this state economically. 16 If New York State leads with a clean energy 17 vision, I really foresee it being an industry that would 18 be here for a hundred years. So, I ask the governor: 19 Please, put forth a vision. 20 We went to the moon. We said in seven years 21 that we can go to the moon. Why can't we say in 10 22 years we're going to have 50 percent? If we don't make 23 it, if we made only 40 percent would that be terrible?

1 I don't think so. So, let's have a grand plan. Let's make it 2 big. If we don't make it, what's the worst that 3 happens? We got 50 percent of renewable energy in 10 4 years, in 15 years? I don't know. I don't know what 5 the answer is, but I do know that we do need to have 6 7 that vision. I would ask the governor to please put 8 something forth like that. It doesn't cost anything. 9 Doesn't even cost political points. Please let him know 10 11 that. I appreciate all your time here today. 12 13 Thank you very much. CHAIRMAN RHODES: Thank you very much. 14 Billi Roberti, followed by Donovan Gordon. 15 MS. ROBERTI: I want to make sure I cover 16 all my points, so I have them written down. Thank you 17 for the opportunity to speak. My name is Billi Roberti 18 and I am a homeowner from Huntington. 19 My partner and I completely renovated our 20 small home in 2010 to Energy Star and LEED Silver 21 standards. We weatherized the house and we installed 22 23 both solar, photovoltaic, PV, and geothermal heat pump

1 systems.

-	
2	Afterward, our total utility costs decreased
3	43 percent. Meanwhile, heating oil prices went up 44
4	percent. We are really glad we did that.
5	As a result of my experience, I was
6	appointed to the Town of Huntington's renewable energy
7	task force. This is the only one of its kind on Long
8	Island. I'm also a member of the Long Island Geothermal
9	Energy Organization, a non-profit association for
10	promoting geothermal heat pumps.
11	For the record, I am against hydraulic
12	fracturing for natural gas, but I will leave that issue
13	for others to discuss. I also support PV systems, but
14	there are many others who endorse that too.
15	So I am here to promote the use of
16	geothermal heat pump systems, GHP. This technology will
17	propel us to achieve many of the goals of the 2014 New
18	York State Draft Energy Plan.
19	I will speak on two of the major goals:
20	Improving energy affordability and reducing
21	environmental impacts. My colleague, Donovan Gordon,
22	will talk also about GHP in his address.
23	Improving energy affordability. Keep New

York residential customer electric bills as a percentage 1 2 of household income at or below the national average. 3 The best way to improve energy affordability is to 4 increase efficiency. 5 The EPA says GHPs can reduce energy 6 consumption up to 44 percent compared to air source heat pumps, and up to 72 percent compared to electric 7 8 resistance heating, coupled with conventional air 9 conditioning. 10 However, monthly electric bills are not the best measure for tracking energy affordability. Total 11 12 energy bills should be the target, otherwise, there may 13 be unintended consequences. 14 For instance, reducing or eliminating a 15 fossil fuel bill by switching to GHP will actually increase the electric bill. The metric as defined would 16 17 force the state to discourage GHPs, even though the 18 total energy bill would be lower. 19 We eliminated our heating oil bill, but our 20 electricity usage has increased. Although our overall energy cost decreased dramatically, it would look like 21 the opposite if our electric bill was the only focus. 22 23 The metric as defined would force the state

1 to discourage GHPs, as well as other great options, such 2 as plug-in electric vehicles. 3 For many homeowners, price variability over time is just as important as average price, and fossil 4 5 fuel prices are much more variable than electricity. 6 Switching from fossil fuel GHPs, while increasing 7 electric bill, decreases the overall energy bills and 8 reduces the month-to-month variability. 9 Also, using monthly bills focuses attention 10 on the short term, while this plan takes a long term view. 11 12 Increase energy efficiency resource deployment. GHPs are the best source to achieve this 13 14 goal, as they rate 350 percent to 500 percent 15 efficiency. No other HVAC system is as energy efficient. 16 If 20 percent of the 60,000 conventional 17 18 systems, replaced yearly due to aging and failure, were 19 retrofitted with 3-ton GHPs, the peak load reduction would be 240 megawatt over a 10-year period. 20 This would reduce the need for new power 21 22 plants and reduce the demand and costs of the power provider. 23

Decrease electric system peak demand. GHPs 1 are the only HVAC system that can reduce the peak demand 2 3 in summer because they use 25 to 44 percent less electricity than conventional air conditioners. 4 5 Improve utilization of existing electrical 6 infrastructure. GHPs are the only renewable energy 7 system that shifts electricity usage away from the summer and into the less utilized winter. 8 This levels out demand throughout the year, 9 And it 10 helping make utility operations more efficient. decreases the cost of electricity since peak demand 11 determines its everyday price. 12 Reducing environmental impacts associated 13 with our energy system. Decrease greenhouse gas 14 emissions in New York. GHPs are the technology to 15 achieve this goal because they heat and cool with no 16 emissions. 17 18 According to Oak Ridge National Laboratory, 100,000 average GHP installations reduce greenhouse gas 19 emissions by almost 1.1 million metric tons of carbon 20 during their average 20-year lifespans. GHPs eliminate 21 22 the need for fossil fuel combustion to heat indoor 23 spaces.

1	Since GHPs do not use fossil fuels, they do
2	not pollute the air. They also eliminate the danger of
3	flue fires, natural gas leaks, and CO poisoning due to
4	poor venting, such as what happened recently at the
5	Legal Seafood restaurant at the Walt Whitman shops on
6	February 22, 2014.
7	If New York State is serious about this
8	goal, GHP systems must have a prominent place in this
9	energy plan.
10	Thank you.
11	CHAIRMAN RHODES: Thank you very much.
12	Donovan Gordon, followed by Adrienne
13	Esposito.
14	MR. GORDON: Good afternoon. I'm Donovan
15	Gordon. I live in North Bellmore. I am a LEED Green
16	Associate, a sustainability and renewable energy
17	consultant, and I currently advise Sherman Industry,
18	Inc., one of the largest geothermal designers and
19	installers on Long Island.
20	I'm also a member of the Long Island
21	Chapters for the United States Green Building Council
22	and the Geothermal Energy Organization.
23	I am here, as my previous, my friend Billi,

I

to promote the use of geothermal heat pump systems. 1 This technology will help New York State in achieving 2 3 many of the goals of your 2014 Draft New York State Energy Plan. It should be a major part of the plan. 4 5 As far as decreasing, one of your goals is to decrease the number of customers relying on oil, or 6 for paying for heat, natural gas as well. So, I agree 7 with the anti-fracking group. 8 9 Geothermal heat pump is the best solution to repress that because there's no fossil fuels. I will 10 explain the technology as we go a little further. Also, 11 it is the most efficient heating/cooling system on the 12 13 market today. As far as unleashing the power of private 14 sector energy financing, this is an extremely critical 15 issue, and I think geothermal heat pumps or geothermal 16 industry in general should have parity with the solar 17 18 and wind industry as far as investments and incentives 19 qo. 20 The ways to increase deployment of geothermal heat pump, the main thing is reducing the 21 upfront cost. That was the major issue with solar 22 initially, and that's been addressed. Now you can have 23

1 no money down. At least we certainly feel that 2 geothermal heat pump should enjoy that as well. 3 Other things. As sales tax exemption, equipment and materials, solar PV and solar energy 4 5 enjoyed. Specifying geothermal heat pumps as being eligible for the residential solar income tax credit. 6 7 That legislation is actually in both houses and waiting to be approved. We certainly hope that's the case. 8 9 The extension of the income tax program for 10 commercial buildings as well, and financing from the 11 Green Bank for geothermal projects, both public and private. We certainly feel government building schools 12 13 and large commercial entities should build geothermal, 14 should have geothermal heating and cooling systems. 15 As far as increase cost effective 16 distributed energy deployment, geothermal efficiencies 17 will increase the cost effectiveness of energy 18 deployment, whether by the grid or distributed power. 19 As mentioned earlier, geothermal and solar 20 panel is the perfect marriage because it uses less 21 energy. 22 As far as jobs, as we promote geothermal 23 more aggressively, and there are more and more

1	installations, this will create local jobs for drilling
2	and for excavation, for the HVAC industry, and also the
3	surfacing of these units.
4	What I am going to do is jump to basically
5	some definitions and understanding of geothermal as
6	stated on the NYSERDA website.
7	Geothermal heat pump system. Geothermal
8	pump systems, coupled with building HVAC system to the
9	earth. Geothermal heat pump systems eliminate the need
10	for boilers, cooling towers, etc. Meaning, no fossil
11	fuels, no oil, no gas to heat the building.
12	The ground provides a nearly constant
13	temperature source for BTUs for efficient heating and
14	cooling.
15	So, the benefits, as stated by NYSERDA.
16	Benefits of geothermal. Low operating cost, no required
17	exposed outdoor equipment, so it will last longer.
18	Levels seasonal electric demand. No onsite combustion.
19	This emits no carbon. Long life expectancy, upwards of
20	50 years. Low cost integrated water heating. This also
21	provides heating, cooling and hot water. Simplicity.
22	Low maintenance because everything indoors or buried
23	underneath. No supplemental heating required. And low

1 environmental impact.

2	Both EPA and Department of Energy, along
3	with NYSERDA, says geothermal heating systems are the
4	most cost effective and environmentally friendly way to
5	heat and cool your home.
6	Thank you very much for time and attention.
7	CHAIRMAN RHODES: Thank you very much.
8	Adrienne Esposito, followed by Karin Lind
9	Ralph.
10	MS. ESPOSITO: Good evening. My name is
11	Adrienne Esposito. I'm the Executive Director of
12	Citizens Campaign for the Environment. There are five
13	state environmental organizations at five offices in New
14	York and one in Connecticut, and about 80- to 85,000
15	members.
16	We in New York State want a grass roots
17	environmental organization. We have been reading and
18	assessing and commenting on state energy plans for
19	almost two decades now, and unfortunately, a lot of our
20	comments haven't changed much since the last plan.
21	The one glaring thing about this plan is
22	that it doesn't really contain numerical goals for
23	renewables for wind, offshore wind, solar, geothermal,

1 battery storage.

· · · ·--

2	What we would like to see this plan have is
3	specific strong targets assigned with dollar values to
4	the goals that it would state. It doesn't yet do that.
5	The draft plan doesn't provide the clear
6	blueprint we are looking for with aggressive yet
7	achievable goals for renewable energy. We know,
8	regardless of the testimony you may have heard, we know
9	that renewable energy can and should and needs to play a
10	significant role in New York's energy plan.
11	For instance, the New York State Department
12	of Energy's national renewable energy laboratory, not
13	known for its whimsical commentary, has stated that New
14	York State can be supplied 50 percent of its electricity
15	needs from wind power. 50 percent of our electric needs
16	could come from wind power, and yet, not one offshore
17	wind farm exists in New York State. Not one.
18	The viable proposals that have been put
19	forth, the Great Lakes and the Atlantic ocean, have died
20	a slow painful death one by one. Why is that? Well, is
21	it new technology? No. You don't need me to tell you
22	that the first offshore wind farm on the globe was put
23	forth by Denmark in 1991, 23 years ago.

1	Well, how is Europe doing? Well, I'm glad
2	you asked. Europe, as you know, is the number one
3	leader in offshore wind farm development. For instance,
4	the United Kingdom, 3,681 megawatts; America, zero.
5	Denmark, 1,271 megawatts; Belgium, 571 megawatts;
6	America still zero. Germany, 520; the Netherlands, for
7	goodness sakes, 240 megawatts of offshore wind energy.
8	And collectively in Europe there's 6,562
9	megawatts of offshore wind energy generated. America
10	still zero.
11	What has Europe figured out that we haven't?
12	Why does this plan that has been put forward not assign
13	numerical values to offshore wind? That is doable, is
14	obviously working in Europe. It's not new technology.
15	It's not new. It works. We don't need pilot programs.
16	We need to get aggressive. We need to want to do it.
17	We are asking you to include it, assign a real value in
18	a substantive, meaningful way to New York's energy plan.
19	We have that collaborative, New York City,
20	NYPA, LIPA and the MTA is supposed to be working
21	together on south shore. They have moved at pre-global
22	warming glacial speed. That actually could be a clean
23	source of energy to replace Indian Point which should be

.

1 closed down.

,---( ...

----

\_\_\_\_\_

2	Here on Long Island is the new one you have
3	been hearing about, Deepwater Wind. It could generate
4	200, 300, 400, 500, 600 megawatts. We could share that
5	with Rhode Island. Why is it not in the plan? Why is
6	the plan silent on this? Please, don't be silent. We
7	need you to speak up. We need it in writing.
8	Better move along. I have one minute for
9	God sakes. Here we go. What the plan does particularly
10	for Long Island is it causes the transition on Long
11	Island from oil to natural gas. Substituting one fossil
12	fuel for another fossil fuel is not good energy, nor
13	public health policy.
14	The transition to natural gas is a backdoor
15	embracement of hydrofracking. It's not going to work
16	for New York State. Natural gas is not an energy bridge
17	to the future, but rather, it is a highway to climate
18	change, a warmer planet, contaminated water, and
19	polluted air. One that we reject.
20	We want to say that here in Long Island,
21	Judith, John and Jared want to say welcome to ground
22	zero for climate change. We get it. We get it like
23	nobody else gets it, frankly, in New York State, because

.

1	you may think you got it when you watched the news and
2	saw the devastation, but to be here and to experience
3	it, and to work on the weekend volunteering to rip down
4	people's homes, and take out every single thing they
5	ever owned in life and put it on the curb waiting to get
6	transported away, we know climate change is real. We
7	know we need to make a transition from fossil fuels to
8	cleaner, safe energy, and it's not a sound bite.
9	For us it's a reality. It's a reality that
10	will only become real if we plan for it, and the plan
11	needs to be more aggressive. It needs to embrace wind,
12	solar, geothermal, battery storage, and assigned
13	numerical values. That's how we will get there.
14	Thank you very much.
15	CHAIRMAN RHODES: Thank you.
16	MS. RALPH: Karin Lind Ralph. My name is
17	Karin Lind Ralph, I've been a resident of Long Island
18	all my life.
19	I care very much for what happens here and
20	to New York State, which I happen to love also. I have
21	grave concerns about fracking and effects on the
22	environment. When even the CEO of Exxon doesn't want a
23	fracking well near his home, one has got to question why

\_\_\_\_

anybody would want fracking. 1 2 I guess also, you know, what do you do with 3 these bi-products of fracking? Where does it go? Do 4 you put it back in the earth? Do you keep poisoning the 5 water? And what happens when we don't have anything to 6 drink because of the fracking that's happening all over 7 the country? 8 I just think that having fracking, which 9 only benefits the companies that are doing it, it's 10 really quite criminal to think that it only has to do 11 with greed and money. 12 CHAIRMAN RHODES: Thank you very much. 13 Jane Fasullo, followed by Neal Lewis. 14 MS. FASULLO: Good afternoon. I'm glad you 15 are here. I'm glad the governor has actually created an 16 energy plan we can speak to. It has some really good 17 components. 18 I'm sorry. My name is Jane Fasullo. I'm 19 with the Sierra Club of Long Island. I'm also on the 20 executive committee of the state division of the Sierra 21 Club. And I can go into other things I do, but I'm 22 specifically here today. That's what important. 23 The plan has some loopholes. I think

Adrienne said it best in stating that it does not have 1 2 specific targets throughout the entire plan. Those are missing. It would be nice to see higher numbers, more 3 numbers is what I meant to say, higher in number of 4 5 numbers. 6 But I would like to speak to certain 7 specific sections of the plan. One of them is to achieve the gas reduction goals that are set in the 8 The governor must implement specific steps 9 plan. involving extending and expanding the state's renewable 10 energy and energy efficiency programs, which has not 11 been spoken to here so far today. 12 It is unnecessary to help meet the 13 14 greenhouse goals. Most important of these are electric efficiencies, building codes, and renewable energy 15 itself. 16 17 Much has been said on renewable energy, but 18 I would like to speak a little bit more on electrical 19 efficiency and building codes. That does include the 20 state commitment to 2020 to electric efficiency 21 programs, which are currently set to expire in 2015. 22 That's next year. This commitment must be coupled with 23 target and dollar budgets to capture all cost effective

1	and energy efficiencies across all sectors.
2	In terms of building codes, codes and
3	appliance standards must be updated more regularly, as
4	well as aggressively enforced. Too long the area has
5	suffered from lack of funding and political will to
6	follow through on stated commitments.
7	As buildings account for the lion's share of
8	engineer plans, strengthening codes and standards will
9	both spur economic growth by saving their occupants
10	money each year, as well as reducing emissions.
11	Finally, the plan must include more specific
12	action items and metrics by which to measure the state's
13	followthrough on these commitments.
14	The state can be leading the way by
15	retrofitting the buildings it owns, making them more
16	energy efficient, and by encouraging and aiding
17	municipalities to do the same.
18	Here on Long Island, we have the wind plans
19	which have done that. They would be wise to model after
20	some of what has been accomplished here.
21	I then would like to speak about the
22	transportation section. The transportation sector
23	accounts for the largest portion of New York's

Γ

 $\widehat{\mathbb{C}}$ 

greenhouse gas emissions, and historically has also been
 the fastest growing contributor.

New York should continue investing in electric vehicles while also making the necessary regulatory changes at the PSC to remove barriers from electric vehicle adoption involving charging stations.

7 The state should also be electrifying its 8 own vehicle fleet to reduce operating costs and air 9 pollution, as well as reduces carbon emissions from the 10 operation. And again, it should first assist and then 11 require municipalities to do the same.

Diesel powered school buses, which we have thousands operating on Long Island, are prime candidates for electrification. Many of their routes are short, but technology has been demonstrated and they can be recharged at night at their depos when demand on the electric system is lowest, and therefore the cost as well.

I would next like to address the general topic of affordability. The plan in volume one, page 31, refers to the affordability of the plan itself as an overall picture, but it neglects to take into account that the affordability of electricity for New York

1 people and businesses is not just about the cost of our 2 electric or our fuel that we have to pay for. It's 3 about the cost of our health.

We need to couple the cost of health with the cost of electricity when we talk about the cost of what we are doing with the energy plan. It is foolish to think that people don't have to pay higher premiums for their health insurance or that the government isn't subsidizing in some way, or that business itself isn't subsidizing the cost of health.

We all pay. You cannot look at the cost of energy without looking at the cost to the human being in health.

Thank you.

14

15 CHAIRMAN RHODES: Thank you very much.
16 Neal Lewis, followed by John Burke.
17 MR. LEWIS: Good afternoon. My name is Neal
18 Lewis, I'm the Executive Director of Sustainability
19 Institute of Malloy College.

I certainly speak in favor of a number of the points that have been made. I'm going to just touch upon them briefly, but my main point today is to recommend action regarding the issue of carbon monoxide 1 hazards.

2	However, I do want to point out that
3	Sustainability Institute of Malloy College has put on
4	viewings of the Gasland movie twice, and are very
5	supportive of effort of the groups that are here calling
6	for a ban on fracking. And our policy suggestion to
7	this plan is perhaps that it should encourage a rule
8	that says you have to at least have seen that film
9	before you can vote on anything regarding the issue.
10	I also generally support the points that
11	have been made that this is more of a vision than a
12	plan, and it needs more metrics, more specific numbers,
13	it's lacking in that area. It's great to see geothermal
14	organizations represented here today, and has made the
15	points about their lack of inclusion in past plans, and
16	how there should be better equity in support of their
17	industries, incentives and renewables.
18	And the issue of municipalities. There's an
19	old executive order. How about a report on updating
20	precisely what was in the executive order, executive
21	order 111, long overdue. No reason why it hasn't ever
22	reported. I have asked about it for years, by the way.
23	With that said, last week there was a tragic

1 death of a man by the name of Stephen Nelson, who I understand, but we will wait to see the specifics in the 2 3 report, so I will put it out as a question. Was he sick for several days before he passed away? 4 5 I believe there are thousands of people on Long Island living in homes and going to work every day 6 7 under circumstances that make them sick. And that is essentially that they are exposed to low levels of 8 9 carbon monoxide. And in the case where carbon monoxide kills, 10 clearly it has gotten to that higher level, and the 11 question is whether or not your monitor is in place, 12 whether it's not too old, whether it has not been used 13 before and would therefore need to be replaced, and that 14 it's either hardwired or has battery backup. If all 15 16 those things are in place, hopefully it will save your 17 life. 18 We certainly support the effort to extend the current law from residential and places where people 19 sleep to commercial, but that does not go far enough, 20 and it's an energy issue that should be addressed in the 21 energy plan. 22 23 The first point is that it should be a

requirement for all buildings to have digital monitor 1 readouts. And if you work in a building, you have a 2 right to know that the carbon monoxide that's in your 3 workplace, this is a right to know issue, that it is at 4 a safe level, or it should really be zero. 5 So, you should be able to walk up to a 6 monitor, put your finger on the button, and it will give 7 8 you the readout. We believe strongly that if you do that what 9 you are going to discover is that many combustion 10 systems have a low level of exposure of carbon monoxide 11 being produced as a result of the fact that they are not 12 working efficiently, and may not be regularly cleaned, 13 and a number of other factors. That's how this ties 14 into being an energy issue, because this is about 15 promoting energy efficiency. 16 We need to be promoting home energy audits. 17 We need to be promoting carbon monoxide tests. As I 18 said, monitors that will pick up these lower levels of 19 exposure that are causing illness, and the illness can 20 cover a range of things. 21 I would point out the experience of one 22

23 mother who came to us after having had an energy audit

done as a result of the advocacy to make her aware of 1 2 that state program, which is called Green Jobs Green New York program. She got the home energy audit done and 3 she had a carbon monoxide leak in her house that never 4 5 triggered her alarm. Her son for years suffered from severe 6 migraines, and they could not figure out anything to do 7 8 about his problem other than to darken his bedroom. 9 This is an energy issue and it should be featured in the 10 energy plan. I found only one mention of the subject in 11 12 the plan so far. I apologize if there's more in there that I have not been able to find, but certainly it is 13 not an adequate addressment of the issue. 14 I would like to see NYSERDA produce an 15 annual report on what we know about carbon monoxide 16 detection from the home energy audits that were done. 17 We have been asking for this status. 18 Similarly, I think fire marshals should 19 provide us with the data on the broad range of scope of 20 this problem. People don't realize that this is in the 21 thousands of homes that are having problems because they 22 do trigger these monitors. 23

Personal monitors should be provided to EMT 1 2 people that come to a place and they don't know whether or not there is a gas problem, as was the case with the 3 4 Legal Seafood incident. 5 Repair personnel. When you get your car 6 tuned up, they take it for a run around the block before 7 they give it back to you. Any repair person that comes 8 into a home, or comes into a business with a combustion, 9 if you work on the combustion system you must do a carbon monoxide test before you leave the premises. 10 That should be the rule. 11 We have ten recommendations, and we really 12 13 call on the State of New York to really lead the nation on this issue. 170 die every year from carbon monoxide 14 that is not related to automobiles. 15 16 Thank you. CHAIRMAN RHODES: Thank you very much. 17 John Burke, followed by C. Carre. 18 MR. BURKE: Good afternoon. I am John 19 Burke. I'm not a public speaker. I didn't write it 20 down, but I will and I will send it in. 21 I have been working in renewable energy and 22 23 solar for over 30 years, since 3 Mile Island. We did

1	work to help stop the Shoreham nuclear plant on Long
2	Island with the help of Governor Cuomo. Mario, that is.
3	And since 3 Mile Island, we have been
4	involved with solar energy education and helping people
5	learn about solar, and how to make their own solar
6	panels, as well as doing installations including down at
7	Jones Beach, at the West End One, which is now the
8	Theodore Roosevelt Nature Center, and they installed a
9	so-called geothermal, although it's actually a ground
10	source heat pump, since we don't have volcanos on Long
11	Island.
12	Ground source heat pump uses a lot of
13	electricity. That's why we install photovoltaics on the
14	building at West End One.
15	Speaking of fossil fuel and the fossil fuel
16	addiction that we all suffer from, and we are all in
17	denial of, I would like to point out that fracking, tar
18	sands, oil, natural gas, and any fossil fuel burning,
19	produces carbon monoxide as well as carbon dioxide.
20	As the tundra goes through the climate
21	crisis and the global overheating, it releases the
22	methane that's been trapped underground for millennium
23	or millennia.

I want to point out that all of us here have 1 2 the ability to take a stand for the future, because anything we do today is going to be felt by our 3 4 grandchildren and their grandchildren. 5 Do we have three minutes remaining? Do we have ten years remaining? When will we get New York 6 7 State to ban fracking and to ban tar sand oil being shipped through New York State on rail or down the 8 9 Hudson River? Will we ban the LNG port off Long Beach? I have one question for Andrew and that is: 10 11 What would Mario do? Thank you. CHAIRMAN RHODES: Thank you very much. 12 C. Carre, followed by Anne Mayer. 13 I am not sure if C. Carre is here from Food 14 15 and Water. So, let's go on to Anne Mayer, followed by 16 Peter Gollon. MS. MAYER: I am a member of Food and Water 17 Watch and many, many other organizations, Healthy 18 19 Planet. All you can do is look back at the '70s when we 20 were a lot younger and sitting on gas lines and it's 21 just amazing how little has happened between now and 22 then. 23 The unfortunate thing is we don't have

1	another 30 years to fool around with what's happening on
2	a global scale. You look at the New York Times
3	bestseller list, and there's a book called Six
4	Extensions. It's not about politics. It's not about
5	money. It's about survival of the planet.
6	It's about you and your families as well,
7	because we all drink the same water, we breathe the same
8	air, we eat the same food. And we look out west and the
9	water crisis that is happening and here we are taking
10	millions of gallons of water and poisoning it?
11	I don't know if you guys had the good
12	fortune of seeing the expo at the Museum of Natural
13	History on water. And one percent of potable water is
14	drinkable. Even you have to question that with all the
15	poisoning and pollution that's going on.
16	I would like to speak to the gentleman who
17	spoke about Germany as a poor example of solar. You
18	can't compare Germany to New York. We get a lot of sun.
19	And it should be a mandate for every flat building on
20	Long Island, in New York State, should have solar
21	energy.
22	Charging station for cars. There's no
23	excuse at this point. The motto should be first do no

59

ł

1 harm. We don't want a level playing field with fossil 2 fuels because fossil fuels in terms of health, super 3 cleanups.

I have an article here that -- and let me talk about nuclear. Just look at Fukushima. They are not telling the whole thing about that. That issue alone is threatening the life on this planet.

An article out of the New York Times -- by 8 the way, I am a mariner. I graduated from SUNY Maritime 9 College, and also I'm an electrical engineer. The 10 article is in February, bakken crude rolling through 11 Albany. This crude is not your average crude. The 12 article points out 400,000 barrels a day heads to the 13 east coast. It's highly flammable and very dangerous. 14 They are not equipped to clean it up. 15

Just go to Riverkeeper website. They have a little information on it. Tank, 600 feet ocean line auto tank that ran aground. If it didn't have a double hull, which is something that I learned about, American flag bearing ships have to have these things, all that work that Pete Seeger did would be in one fell swoop just undone.

23

So, it's just unbelievable. Every day I

1	read the paper and would advise you to all read the New
2	York Times. There's great articles in there. For
3	example, they said that it does not pay to change over
4	bus fleets to gas buses, because when they look at the
5	whole fleet of gas policies, extracting it to the point
6	where it reaches to the bus, more methane is released
7	that doesn't justify the switch from diesel buses to gas
8	buses.
9	These are the kind of articles that you will
10	find in the New York Times, and we have to take a stand.
11	And the time is running out. I really wonder if there
12	will be a planet, and if there will be, it will be very,
13	very, very few because people in the Long Island,
14	LaGuardia airport, we will be underwater.
15	Thank you.
16	CHAIRMAN RHODES: Thank you very much.
17	Peter Gollon, followed by Julie Sullivan.
18	MR. GOLLON: Good afternoon. I would like
19	to thank the State Energy Planning Board for the
20	opportunity to comment on the Draft State Energy Plan.
21	My name is Peter Gollon. I have been a
22	resident of Huntington, just a few miles north of here,
23	for the last 35 years. I'm also energy chair of the

1 Long Island Sierra Club.

National Sierra Club is the nation's oldest and largest grass roots environmental organization, over 35,000 here in the state.

5 We are experiencing a climate crisis. 6 Science is clear, indisputable. Threats to our world's 7 environment. By extension all of us, me and you, the 8 living, are caused by global climate change. A manmade 9 threat caused by increased use of carbon based fossil 10 fuels. Carbon dioxide releases greenhouse gases into 11 the atmosphere.

And it's important to emphasize the other gases, because the climate plan talks mostly of carbon dioxide, but other gases are also causing greenhouse effect, more potent on the molecular basis. So, it has to be in terms of carbon dioxide equivalent.

We understand and see full well the beginnings of a changed climate, higher average temperatures in winter and summer, leading to the spread of tropical diseases and invasive agricultural pests further north. Higher peak temperatures in the summer, and extensive droughts, couple with more intense storms. Oh, yes. Stronger, more frequent hurricanes

and tropical storms. Super storms Irene and Sandy are 1 examples of climate disruption that all of Long 2 Islanders understand. 3 Governor Cuomo has promised that New York 4 5 will be a leader in addressing climate change. New York can and must follow through on this promise to 6 7 transition to a renewable energy future. To protect our families from the threat of worsening climate 8 9 disruption. We must lay out a specific path to 10 immediately begin moving away from totally unsustainable 11 fuels of the past, like coal, gas and nuclear, and 12 toward cleaner global energy solutions of the future. 13 This must be done because our children and 14 grandchildren deserve as habitable a planet as we do. 15 This energy plan must include mandates for 16 17 enforceable interim steps, emphasis enforceable, emphasis interim, and targets that would meet the 18 state's goals in reducing carbon pollution by 80 percent 19 by 2015, the goal originally established in 2009 under 20 then Governor Paterson. 21 How far along is the state now 22 So, tell me. 23 toward that goal? Or how far behind? Without any

1 meaningful checkpoints along the way between now and 2 2050, we will have no meaningful way to see if we are on 3 track to meet that goal.

We need to establish intermediate goals and 4 5 not be surprised to find in the allotted time we are only halfway to the goal. And we suggest 14 percent 6 7 target by 2018, compared to the 2011 levels, and 20 8 percent by 2021, to ensure the state is on the 9 appropriate path to comply with the efficiency goals. 10 The goals that relate to electric utilities 11 must be mandatory and enforceable, both as applied to the investor owned utilities and for LIPA, now PSEG Long 12 13 Island. That was when the public had more input and the 14 board had more control over power purchases than they 15 will next year under the direction of PSEG Long Island. The governor deserves high praise for the 16 17 New York Sun initiative, which is resulting in enough solar power being installed, rather it's just a part of 18 19 the mix. New York is now fifth in the nation in terms of solar jobs. 20

As Long Islanders, we are keenly aware of the geography that threaten us through the climate disruption. Fortunately, our geography also presents us

1 with one major solution: Offshore wind. We have abundant offshore wind resources of larger capacity 2 3 factors and peak production to better match the afternoon and evening wind. 4 5 There are two projects that are being discussed today, one 130 miles off Montauk, and received 6 from the federal government and is ready to sign a power 7 purchase agreement today. 8 The other is off the Rockaways and it is 9 being pursued at an unknown rate of speed by NYPA. We 10 must proceed expeditiously with both projects. First, 11 so we get the benefits of cleanly produced power at a 12 stable price. Second, we know about price stability 13 just having watched people's electric bills go up 14 because gas went up in the last two months. 15 And secondly, for the development and 16 expertise for the jobs on Long Island, just as it is 17 18 today in Europe. 19 Now it's time for LIPA PSEG to use this renewable energy procurement process to invest in 20 offshore wind. And solar energy and energy efficiency 21 are important, but we must commit more to wind energy to 22 23 get renewable energy to scale.

Only by continuos focus and developing 1 2 resources all New Yorkers use will become commonplace and part of the mix in this country as they have been in 3 Europe. 4 5 Sierra Club calls on the governor to permit land based wind power upstate and moving forward on 6 offshore wind this year off of Long Island's shores. 7 8 Finally, the energy plan must be followed by specific steps that are to be taken by all entities 9 10 throughout the state. I refer you to the state's 2010 climate action plan, and the plan just released before 11 12 the end of Mayor Bloomberg's term, New York City's Pathways to Reduction, that have detail required in 13 14 order to get from here to there. 15 Thank you. CHAIRMAN RHODES: Thank you. 16 17 Julie Sullivan, followed by Bill Feldmann. MS. SULLIVAN: Good afternoon. 18 My name is 19 Julie Sullivan and I am one of half a million members 20 nationwide of Food and Water Watch. New York State's Energy Plan is not a plan. 21 It doesn't design clean energy, although it implies that 22 23 natural gas is a component of clean energy. Just for

1 the record, it's not.

It doesn't recognize the contradiction between reducing fossil fuels, but then facilitating their transportation and export. It doesn't address a ban on fracking or closing nuclear facilities in New York State.

7 A plan must be specific with regard to goals, targets, timelines, and it must quantify costs. 8 9 It should express a vision, such as targeting the reduction of all fossil fuels, replacing them by energy 10 efficiency and renewable resources. You have to think 11 12 out of the box, envision something like solar panels in 13 parking lots to energize their shopping centers, their 14 schools, their local communities, while charging vehicles. 15

How does this plan stack up with reality? In actuality, New York State is becoming an export facilitator ruled and controlled by businesses too big to fail.

How is this? First, New York is building gas pipelines and plans to build a terminal to import and to export LNG as today's terminals are all becoming bidirectional.

Second, New York is improving statewide rail 1 2 and Hudson River barges to accommodate transport of crude oil from the bakken shale to foreign markets. 3 New York State shouldn't be the stepping 4 5 stone for the rush to exploit resources in states that are in lockstep with the gas and oil industry. Instead, 6 we need to focus on sustainable energy sources that 7 improve the public health and environment. 8 Wherever states weaken regulations to 9 accommodate industry, people in communities suffer from 10 toxic leaks, emissions, explosions and more. 11 While many of the plan's initiatives, like 12 80 percent emission reduction by 2050, may sound good 13 for New York's energy future, methane is not mentioned. 14 Instead of planning to reduce our dependence 15 on natural gas, initiative 9A, B and C is clearly 16 17 designed to continue fueling our addiction to this 18 harmful methane leaking fuel. 19 You can't have it both ways. To reduce 20 potent methane emissions, New York must ban fracking, just refuse to partner with other states to strengthen 21 their fossil fuel infrastructure and delivery systems, 22 and refuse to identify foreign customer demand for more 23

1	gas and liquid fuels, all of which this plan proposes.
2	It talks about keeping prices down, but
3	during the past year natural gas prices nearly tripled,
4	spiking at nearly 8 dollars a thousand cubic feet last
5	month, and will further rise, if exported.
6	So, consider our comment. And help us help
7	you rethink a plan for the future of New York's energy.
8	Thank you.
9	I would like to make another statement on my
10	own behalf. I'm out of time. I will use a minute.
11	I moved to New York, to Long Island 35 years
12	ago, and it was right after the Carter administration.
13	And what we had done is purchased a house in Long Island
14	that is active and passive solar. 35 years ago it was.
15	It continues to operate a 500 square foot segment of
16	solar panels. There's thermal solar, which is mentioned
17	in the plan, by the way. So, it is still considering
18	that.
19	It's been operating continuously. We have
20	no gas, oil or other fossil fuel generating energy heat
21	or any other source of energy in the house. Our bills
22	have averaged way under \$2,000 a month. We have a 2,000
23	square foot house in the middle of Long Island.

Γ

1	A year. It's \$2,000 a year without any
2	fossil fuel, direct usage of fossil fuel.
3	Now, after the Carter administration we had
4	the Reagan administration. In the White House, Carter
5	put in solar collectors, which Ronald Reagan, the first
6	action he did was take them down.
7	Now, we could have over 35 years been
8	advancing all the renewable resources, energy resources
9	during that time, and be the world's leader, but we are
10	not. We didn't do that. We followed Ronald Reagan and
11	all his people from industry, and this is where we are
12	today with having to start all over again.
13	Thank you.
14	CHAIRMAN RHODES: Bill Feldmann, followed by
15	David Alicea.
16	MR. FELDMANN: Good afternoon. My name is
17	William Feldmann. I am the COO of Empire Clean Energy
18	Supply, also known as ECES, which is located in Bohemia,
19	New York, a stone's throw from Long Island's MacArthur
20	airport.
21	We are a renewable energy equipment
22	distributor specializing in solarPV, solar thermal, and
23	geothermal heat pumps. We are the New York distributor

Г

.....

70

for the patented GeoColumn, a residential ground source 1 heat pump heating and cooling system that uses a truly 2 innovative hybrid design. 3 I am here to testify about the invaluable 4 role geothermal heat pumps can play in New York's energy 5 future. As compared to traditional heating and cooling 6 7 systems, geothermal heat pumps are safer. They eliminate combustion in the home, which eliminates the 8 need for carbon dioxide detectors. 9 It eliminates sickness and deaths caused by 10 11 carbon monoxide poisoning. It is less expensive. 12 Lifecycle cost analysis shows a low cost over 20 years when considering the cost of installing and operating 13 14 the equipment. It utilizes the existing electric 15 16 distribution system, so it eliminates the need and costs associated with building new natural gas distribution 17 infrastructure. 18 It is better at reducing greenhouse gas 19 20 emissions. According to the EPA, geothermal heat pumps can reduce energy consumption and corresponding 21 22 emissions up to 44 percent air source heat pump, and up to 72 percent when compared with electric resistance 23

1	heating and with standard air conditioning equipment.
2	When you combine the system with
3	photovoltaics, or PV, all emissions, including
4	greenhouse gases, are completely eliminated. In my
5	opinion, the main barrier to widespread adoption is the
6	lack of education in the financial sector about these
7	systems.
8	Once the financial community understands,
9	and more importantly, once they trust the data, all New
10	Yorkers will benefit from a safer, less expensive,
11	cleaner, heating and cooling infrastructure. I ask you
12	to take this to heart in the planning of New York's
13	energy future.
14	In summary, geothermal heat pumps are safer,
15	less expensive, and cleaner than the existing
16	infrastructure and a lack of understanding by the
17	financial sector is a major barrier preventing the
18	widespread adoption of this technology.
19	Please do everything in your power to change
20	this. Thank you.
21	CHAIRMAN RHODES: Thank you very much.
22	David Alicea, followed by Barnaby Friedman.
23	MR. ALICEA: Thank you. My name is David

. .....

,---

.

72

1 Alicea and I am the local call organizer for the Sierra 2 I am here on behalf of the millions of members we Club. 3 have and the thousands of supporters we have here on 4 Long Island. 5 We want to thank all the agencies and staff that helped compile the New York Energy Plan and for 6 7 hearing us speak today. 8 In late 2012, after the devastation of super 9 storm Sandy, Governor Cuomo made it clear climate change is real and we have to act. Since then, the governor 10 has made a strong commitment to solar with New York Sun. 11 And this plan, and its goal of reducing greenhouse gas 12 13 emissions 80 percent by 2050, shows the governor understands climate change is a serious issue. 14 15 Unfortunately, the plan has more questions 16 than answers when it comes to how we get to that 2050 17 Our families deserve a stronger plan that will qoal. 18 drive investments in renewable energy as wind power, 19 while moving away from dirty fossil fuels. 20 Investments in clean renewable energy like offshore wind here on Long Island can clean up our air 21 22 and lower energy costs. Specifically, we believe that 23 the plan should have enforceable interim targets for

1 reducing carbon pollution.

2	While the governor's New York Sun initiative
3	is a good start, if New York is serious about reducing
4	carbon pollution, we need a full plan that rejects
5	further investments in fossil fuels, and prioritizes
6	renewable energy.
7	We must commit to expanding, increasing our
8	renewable energy targets to a goal of 50 percent by
9	2025, as well in New York energy efficiency programs
10	past 2015.
11	The energy plan should also do more to
12	explore the opportunity we have to build a new clean
13	energy economy. One of Long Island's most plentiful
14	resources, wind energy, is barely mentioned in this
15	plan.
16	If Governor Cuomo wants to be a climate
17	leader he must make a significant commitment to wind
18	energy. With the projects proposed right now, this is
19	the year for Governor Cuomo to act.
20	Governor Cuomo can purchase offshore wind
21	power from projects off Montauk, move forward with the
22	project proposed by the New York Power Authority off the
23	Rockaways, and make Long Island a wind energy leader.

1	Just a few months ago, Sierra Club, along
2	with the New York Public Interest Research Group,
3	delivered over 13,000 signatures to the governor asking
4	him to make a commitment on wind energy. Polling shows
5	more than 70 percent of Long Islanders believe we need
6	to prioritize offshore wind energy.
7	After seeing the firsthand impact of climate
8	disruption, Long Islanders get it. We need to move off
9	outdated fossil fuels.
10	Long Island is also excited by the
11	opportunity for economic growth of offshore wind. New
12	York has a manufacturing base, an educated workforce and
13	a port infrastructure that can become home to the
14	American offshore wind industry.
15	Long Island can become home to a strong
16	offshore wind industry and fuel a wave of investment and
17	economic growth, much like what we saw when Long Island
18	was home to a strong aerospace industry.
19	But New York is lagging behind. Governors
20	in Massachusetts and Maryland are already moving forward
21	with an energy plan. If Governor Cuomo is serious about
22	bringing jobs and economic investment to Long Island, he
23	can't wait any longer. Long Island is ready for wind.

Γ

1	All we need is the governor's leadership.
2	Once again, we're glad to see a goal of 80
3	percent reduction by 2050, but action on climate change
4	can't wait until then. Super storm Sandy showed us all.
5	Our communities are at risk now. Will the next
6	generation be able to enjoy Long Island's famed beaches
7	or the boardwalk at Long Beach? Will families who have
8	lived for generations on the south shore be forced to
9	move?
10	We need Governor Cuomo and this energy plan
11	to make sure we are protecting our communities, make a
12	strong commitment on renewable energy, and a real plan
13	that explains how we can get there.
14	Thank you once again for your time. I hope
15	you take my statements and the others made by friends
16	that have spoken and will be speaking, and use those to
17	revisit this energy plan to help New York become a real
18	climate leader.
19	Thank you.
20	CHAIRMAN RHODES: Thank you very much.
21	Barnaby Friedman, followed by Gordon Canary.
22	MR. FRIEDMAN: My name is Barnaby Friedman,
23	and I'm the Program Manager for Renewable Energy Long

•

Г

. ...

----

76

1	Island.
2	First, I would like to thank the New York
3	State Energy Planning Board for allowing this public
4	input on their energy plan.
5	. Renewable Energy Long Island is a
6	not-for-profit whose mission is to educate and promote
7	the use of clean sustainable energy use and generation
8	on Long Island.
9	Our position on the 2014 New York State
10	Energy Plan is that it needs to be more aggressive in
11	its support of investment in renewable energy. If New
12	York follows its current path, it will not achieve its
13	goal of an 80 percent reduction in greenhouse gases by
14	2050.
15	New York State needs to realize that the
16	only way to reach this goal is to stop spending money on
17	fossil fuel based energy. Instead, New York needs to
18	commit its resources towards the expanded, land based
19	and offshore wind, which together can provide a large
20	percentage of the energy you require.
21	Let's take advantage of the remarkable wind
22	resource we have blowing just offshore. In addition to
23	wind, we need to put more money into solar and

. ---. .

78

1 geothermal energy production.

If this plan commits more resources to renewable energy, we will have the added benefit of creating an entirely new sector of jobs, but that is not enough.

In addition to increasing funding for renewable energy, this plan needs to include expanding both home and business efficiency programs, so that while we expand our renewable energy production, we strengthen the amount of electricity we use.

Let's use this opportunity to build this plan into a model that the rest of the country can follow as a roadmap to combat climate change.

Thank you.

15 CHAIRMAN RHODES: Thank you very much. 16 Gordon Canary, followed by Lynn Meyer. 17 MR. CANARY: Good afternoon, my name is Gordon Canary. I'm the District Office Director for New 18 19 York State Senator Phil Boyle. Unfortunately, Senator 20 Boyle has been called into session in Albany, and he has 21 asked me to represent him here today. I will be reading 22 the senator's comments to the planning board for the 23 record.

I would like to thank the New York Energy 1 2 Planning Board for hosting today's important hearing. 3 Thank you for allowing my District Office Director 4 Gordon Canary to attend today's event as my 5 representative. I wish I could be there personally to 6 7 discuss renewable energy issues here on Long Island and throughout our state, but I was called to Albany today 8 9 for our legislative session. I read the 2014 New York Energy Plan with 10 11 great disappointment in that more emphasis was not placed on renewable energy sources. It seems that some 12 13 officials in Albany are more interested in talking about 14 renewables than actually acting to make New York State a 15 leader in this area. Well, the time for talk is over. One of the 16 17 areas of renewable energy that we as Long Islanders can rally behind is offshore wind. While upstate New York 18 reaps the benefits of cheaper hydropower, we actually 19 20 play to our strength here on Long Island. Yes, we live 21 on an island. It is a region where average wind speeds 22 are higher than in many other areas of our state and 23 nation.

Offshore wind energy has had some somewhat 1 2 controversial history here on Long Island with some 3 residents concerned that massive windmills will spoil the view from our beloved beaches. 4 5 I would note that some of the new proposals for wind farms now being considered for our coastlines 6 7 would barely be visible from our beaches, if at all. 8 As we speak, there are dozens of offshore 9 wind farms in Europe. There are a dozen more planned in 10 the coming years. Why are there none in New York? Why is there not even one anywhere in the United States? 11 I want to see our state lead the way for 12 13 offshore wind in this country as we strive to lead the nation in all renewable energy sources. 14 15 Offshore wind will provide clean renewable 16 energy, which will reduce air pollution and greenhouse 17 gases. Equally important, offshore wind will provide jobs for New Yorkers and lots of them. 18 19 As we meet in Albany to negotiate the 20 2014-15 New York State budget, I call on the governor 21 and the state legislative leaders to put our money where 22 our mouths are. It is time to stop talking and start 23 acting to increase renewable energy alternatives here in

1	the Empire State, and for New York to lead the way on
2	offshore wind energy.
3	Thank you for taking my comments into
4	consideration.
5	CHAIRMAN RHODES: Thank you very much.
6	Lynn Meyer, followed by Donovan Gordon. At
7	that point I propose a break.
8	MS. MEYER: I'm Lynn Meyer. I am here today
9	as a lifelong New York resident, also as a board member
10	of White Roof Project. We are a non-profit group
11	operating mostly in Manhattan. We raise money to coat
12	roofs that are currently black tar with white, highly
13	reflective coating, which enables them to save up to 40
14	percent of energy in the summer, as well as reducing
15	urban heat island effect.
16	We propose that New York State tighten its
17	building codes to include a roofing provision, such as
18	New York City currently does, which states that
19	buildings who are renovating their roofs must use a
20	white coating in the case of black tar coated flat
21	roofs.
22	New York State could also require that
23	homeowners with a typical steeped roof use roofing

•

I

 $\sum$ 

81

I

shingles approved by Energy Star or LEED, which would 1 2 save a great deal in the summer energy costs. 3 As a New York resident, I also agree with 4 everything that has been said before about banning fracking in New York State. I would like to see New 5 York State become a leader in wind and solar energy so 6 7 that I can leave a better state for my children and 8 grandchildren. 9 Thank you. 10 CHAIRMAN RHODES: Thank you very much. 11 Donovan Gordon. 12 (There was no response.) 13 John Rhyner. 14 MR. RHYNER: Good afternoon. My name is 15 John Rhyner. I am a practicing geologist and 16 environmental consultant here working on Long Island. 17 Like many people have talked about, I would like to talk in favor of the geothermal heat pump 18 19 systems, along with the other renewables in that 20 category. 21 I've been working in the industry for about 15 years now. Currently I am also a board member of the 22 23 Long Island Geothermal Energy Organization. I'm going

1	to try not to trip through my notes here.
2	I had to delete a lot of it, espousing on
3	the technology. We are not talking about the hot rock
4	geology. We do not have magnum around here.
5	But, fortunately, wherever you can get a
6	drill rig you can use geothermal. It's viable
7	everywhere in the state. Long Island is ideal
8	territory. I believe that it deserves better attention
9	from the state than it has received in the past due to
10	its many benefits.
11	First, it was fully endorsed by the federal
12	government, as has been said. Both the Department of
13	Energy and EPA have fully endorsed, as has the GSA,
14	largest landlord in the country, as well as the numerous
15	federal bases that are using geothermal systems on a
16	large scale. So, certainly it's scaleable technology as
17	well as possible for individual residential houses.
18	I believe it's deserving parity with the
19	other renewables. And you may know that some of the
20	surrounding states Massachusetts, New Hampshire,
21	Maryland they all have designated geothermal as
22	renewable akin to solar and wind, or as providing a
23	useful thermal energy, so they can incorporate these

83

I

definitions into legislation. And that has allowed the 1 2 state utilities in these -- electric utilities in the 3 states to be able to use geothermal systems as they support and finance and incentivize towards their 4 5 renewable portfolio standards. And Vermont and many other states are moving 6 7 in that direction. So, they are falling like a house of 8 cards, and New York is right in line with all the New 9 England states. So, I would certainly ask you to consider 10 that and be prepared for it because it's coming. 11 It's been a quiet industry. We are mobilizing with the LI 12 Geo, with New York Geo, New England Geo, NESPA, Maryland 13 Geo. We are finally developing a voice for ourselves. 14 15 It's been a quiet technology up until now. It's buried in the ground. It's not on a house. It's 16 not on a windmill. But it's coming. So, it has 17 tremendous benefits. There has been talk of shedding 18 19 the summer load, diverting the use of the electrical grid to the winter, and it fully can replace fossil fuel 20 21 for heating. One of the governor's own efforts, the Clean 22 23 Communities initiative, the Greater Long Island Clean

Communities report acknowledged geothermal heat pumps as a good goal to retrofit HVAC systems, particularly where gas is not available, which is a very huge building stock on Long Island, and the houses are just using oil based fossil fuel for heating. They don't have access to gas. So, one of the governor's own initiatives has promoted that.

8 What else? What else can I say? So, my 9 recommendations or actions, suggested actions would be 10 certainly geothermal should be included in the energy 11 plan, particularly in the Green Bank program, because it 12 does have a higher first cost and financing needs to be 13 behind this.

14 NYSERDA should issue RFPs to engage flex tex 15 contractors who are specifically experienced in 16 conducting geothermal feasibility studies, in addition 17 to the other more conventional HVAC systems that are 18 looked at. People should have the option, if they want, 19 to look at geothermal as an option and instead of a 20 fossil fuel based heating system.

Geothermal can be mandated as part of new construction and it is scaleable. Europe is prevalent with district heating and cooling systems. I've done

some feasibility studies here in the state, but there's 1 2 been no takers. So, it certainly is scaleable. I thank you for your time. 3 CHAIRMAN RHODES: Thank you very much. 4 5 We will now take a break. I hope to keep it at five minutes. 6 7 (Recess taken.) CHAIRMAN RHODES: I am going to call the 8 break and we will resume. 9 Mary Helen Crump, followed by Rav Freidel. 10 MS. CRUMP: Thank you for coming out and 11 hearing our thoughts. It means a great deal. We really 12 have some deep thinkers here. 13 14 I have lived all my life on Long Island's 15 south shore in Lindenhurst. We took the biggest hit from hurricane Sandy, located east of the eye. 16 We 17 experienced the highest water level of the storm at 14.58 feet, slightly higher than the infamous Battery 18 19 Park flood. 20 The 9.34 foot storm surge came despite barrier islands that remained intact. In our case, 21 winds from the east end of Great South Bay and three 22 23 successive high tides flooded Lindenhurst up to and cut

off Montauk State Highway. This time it was
 Lindenhurst. Next time it will be another south shore
 community cleaning up after living along hurricane
 alley.

As oceans continue to heat up with increasing levels of greenhouse gases, the hurricane Sandys may be more the storms of the decade than of the century for us. Climate change is real.

9 Therefore, I believe there is new urgency in 10 meeting the state's goal of reducing carbon pollution 80 11 percent by 2050. To meet that goal, I am proposing five 12 additions and/or clarifications to the energy plan.

First, concerning hydraulic fracturing, we know of the unacceptable extent of environmental damage by fracking. Drillers would like the state to open the southern tier Marcellus shale deposits.

I view fracking as not so much a plan, but as a failure to plan, to mitigate greenhouse gases. It does not belong in the energy plan. I believe we need a lo year moratorium on hydraulic fracturing of natural gas in the state to put off, and hopefully fully deter mining, when and until the science is fully known and consequences deemed acceptable.

1	Two, concerning the principal of
2	environmental justice, it appears in volume 2, chapter
3	2, I believe real justice would advocate not only what
4	you call meaningful involvement, but what I could call
5	self determination. I have in mind the southern tier's
6	distress over the potential to opening it to fracking.
7	As an opponent to fracking, I want to see
8	specific environmental justice and self determination
9	rights written into this plan.
10	Three, I propose to meet the 80 percent
11	carbon reduction goal with a carbon tax. Carbon taxing
12	is based on the relative pollution of fossil fuels. For
13	example, a carbon tax program was instituted in
14	Vancouver, British Columbia, which is its largest city,
15	from 2008 to 2012, on sales of all carbon products that
16	excluded air travel.
17	Vancouver succeeded in lowering fossil fuel
18	purchases over 17 percent, while the rest of Canada rose
19	one and a half percent. Greenhouse gas emissions
20	dropped in Canada from 2008 to 2011. British Columbia's
21	greenhouse emissions dropped nearly 9 percent more than
22	all of Canada.
23	A carbon tax deserves to appear in the

L

energy plan. My source is noted in my thinkprogress.org
 transcript.

Point four, I propose to meet the 80 percent 3 carbon reduction goal with offshore wind farms. 4 For 5 example, an offshore wind farm is nearing reality in Nantucket Sound, and would be the first American 6 offshore farm. The Cape Wind project, if built, would 7 include 130 wind turbines, providing 75 percent of Cape 8 9 Cod, Nantucket and Martha's Vineyard's needs. Why not us? Offshore wind farms could be a reality off Long 10 Island and should be pursued in the energy plan. 11

And finally, I propose to meet the 80 12 percent carbon reduction goal with a solar and PV 13 consumer program that really works. I am now in the 14 lengthy application process with PSEG, but wonder when 15 will I see my own power generation? To wit, I know 16 someone whose panels were fully installed in September 17 of last year, but as of late February, five months 18 19 later, had yet to use them because PSEG has not 20 installed the two-way meter.

Imagine that. Wink. I suspect that the current funding is just inadequate to meet the demand. In summary, I would like to see planning to

meet the 80 percent carbon reduction goal through 1 conservation with a carbon tax and with more renewable 2 3 funding for offshore wind farms and solar. I also need to see the southern tier Marcellus shale mining entirely 4 off the table. 5 6 Thank you. 7 CHAIRMAN RHODES: Thank you very much. Rav Freidel, followed by Robert Frankum. 8 9 MR. FREIDEL: My name is Rav Freidel. Ι represent the Concerned Citizens of Montauk, an 10 environmental organization founded in 1970. We have 11 Some are in the fishing industry. 12 1,000 members. 13 Montauk has the largest commercial fishing fleet in the State of New York. 14 The New York State Draft Energy Plan isn't 15 clean enough for Concerned Citizens of Montauk. 16 It is 17 clean enough if you were Liberty Gas, a Cayman Island corporation, which has twice been vetoed by New Jersey 18 Governor Chris Christie, and is now trying to 19 industrialize the New York side with LNG Port Ambrose. 20 21 It's clean enough if you think fracking and 22 burning shale gas won't release an even more potent 23 greenhouse gas, methane, which will melt the polar ice

1 faster, rise the sea levels faster, turn the ocean acid 2 and kill off the coral reefs and food chain even after. 3 Think it's clean enough if you are one of 4 the politicians or big environmental organizations 5 that's taken money from Liberty Gas and has remained 6 silent on the plan to industrialize the ocean and export 7 LNG. Trace Duran, former head of the East Camden 8 9 Town Republican party, introduces me as his land 10 preservationist. I've been at it since 1982. I can tell you that all along the way for every land parcel, 11 12 everybody told CCOM to forget it. You can't save you can't save the sanctuary. You can't save Caroga lake. 13 14 You can't save the camp here. You can't save Amsterdam 15 beach. Folks, they are all saved. Today, more than 70 percent of Montauk is 16 17 preserved as parkland for present and future generations 18 thanks to CCOM. CCOM has the can do spirit. New 19 Yorkers have the can do spirit. America has the can do 20 spirit. 21 Somebody said before, and I'll repeat it. 22 When I was a boy, the Russians sent a man in space. 23 John F. Kennedy told us we're not a rocket. We are

exploding up on the launching pads. In 10 years we will 1 land a man on the moon. We did the impossible. 2 Good 3 old American ingenuity and know how put a man on the 4 moon in 10 years. 5 You bet I believe in the can do spirit of 6 America. It's in that spirit that I urge you to throw 7 out this draft energy plan and start with a clean sheet 8 of paper. Bring us a plan where the only energy generation allowed in the ocean is clean renewable 9 10 energy, like wind, solar and geothermal. 11 Bring us a plan where they will have no BP-type oil spills, no LNG explosions or other deadly 12 13 industrial pollution. Bring us a plan that protects the 14 fishing industry, not the fracking industry. 15 Bring us a plan that calls fracking what it is, not a bridge fuel but another dirty carbon based 16 17 fuel. We might as well be burning coal if we burn shale 18 gas. 19 Bring us a plan that prohibits New York from 20 both fracking and importing fracked shale gas, or any 21 electricity produced from fracking. No, it's not okay 22 for other states to pollute their air and water and cook 23 the life out of the planet to provide energy.

1	Bring us a plan that puts solar panels on
2	every rooftop in New York, and leads New York, the
3	nation, and the world to a zero carbon economy. And
4	most importantly, bring us a plan that takes ten years
5	to do it.
6	In the 1970s, Walter Cronkite was telling us
7	we have got an energy crisis. We are in the 2014s.
8	Come on. We can't wait until 2050.
9	I urge you to think of climate change as an
10	iceberg and you as the captains of the Titanic. Big
11	energy is telling you, don't worry, your ship is
12	unsinkable. Keep going full speed ahead.
13	The world scientific community is telling
14	you you've got an iceberg ahead of you, slow down and
15	change course immediately.
16	For the Concerned Citizens of Montauk, I
17	urge you to change course immediately. I urge you to
18	remember what that metaphor called iceberg is. It's
19	more hurricane Katrinas, more super storm Sandys, more
20	droughts, more wildfires, deadly tornados and colder
21	weather in Atlanta than Alaska. It's faster sea level
22	rise and the acidification of the ocean.
23	It's what Secretary of State John Kerry

Г

..---

93

1 called the greatest challenge of our generation. A
2 greater threat than disease, poverty, terrorism or
3 weapons of mass destruction.
4 I urge you to change course and create a
5 zero carbon plan in New York State for your children and
6 for your children's children.

7 I have one more comment. 18 miles north of 8 Montauk is a ticking time bomb, Millstone nuclear power 9 station. It was built around the time of Chernobyl and 10 should have been decommissioned years ago, long before 11 we heard of the nightmare called Fukushima.

Millstone's horrible safety record made the cover of Time Magazine. Despite the protest of eastern Long Island, the United States Nuclear Regulatory Commission, which is 96 percent funded by industry, extended the life of Millstone. It will be 80 years old when it's decommissioned.

Let me ask you something: Did you arrive here in today in an 80 year old car? Did you take an 80 year old bus or an 80 year old train? Does the Navy use 80 year old ships? Or our Air Force use 80 year old planes? Of course not.

23

Yet somehow it's okay to have an 80 year old

nuclear reactor in this country. Once these things are 1 2 built, there's no getting rid of them. 3 Thank you. 4 CHAIRMAN RHODES: Thank you very much. Once again, I do ask us to respect the time 5 6 limit. We want to hear from all the speakers. We have 7 a couple more trickling in. It's a courtesy in fairness 8 to those who wish to comment. 9 Robert Frankum, to be followed by Laurie Heinitz. 10 11 MR. FRANKUM: I am a lucky resident of a progressive state, New York. Thank God I don't live in 12 13 Louisiana or Mississippi or Texas or some other places. 14 I hope New York will continue to be progressive in 15 looking forward to new technologies, not looking back. 16 I note with some sense of irony and 17 bemusement the bottled water, the frivolous waste of 1.8 some of our non-renewable resources. I hope we're not 19 doomed to privatize water. And I did notice some good 20 citizens here in the audience brought their own refillable water bottles. Just a little something I 21 22 picked up on the way. 23 I am also a lucky resident of Huntington.

My wife and I brought up our two children in that 1 community. We're glad to be there and hope the quality 2 of life will continue to be what it has been. 3 I would like to respond to Dr. Cordara's 4 5 comment about Germany. I lived in Germany for three years in the 1960s, when life was very frugal, and I 6 have been back several times since then. And I've 7 noticed the progress that country has made. 8 9 It is a progressive country. It's progressed politically from its horrible history and 10 11 it's progressed economically. It is now, as I am sure everybody here knows, the number one economic power in 12 Europe. And it is on a course to eliminate all nuclear 13 14 energy. I am convinced that Germany will succeed in 15 this. Could I bend the golden rule a little bit 16 17 and say, thinking of a very, shall we say, notorious CEO 18 at this point. Do not frack others unless you would 19 have them frack you. 20 What else can I say? There is so much that 21 has already been said, but people complain about the 22 government subsidies of alternative energy plans. By golly, let's subsidize some alternative energy. We have 23

been subsidizing the oil and gas industries for decades. 1 2 That's a simple fact. Let's give a little kick to solar energy, 3 4 geothermal. Tidal generators, I haven't heard that 5 I don't know anything about them, but it mentioned. seems to me on Long Island it would certainly be a 6 7 viable alternative. There is more I would say, but I 8 think let's just look forward. 9 I will make one comment. I read in the New York Times several years ago about a Bavarian pig 10 farmer. He had solar panels on his farm. Farms in New 11 York are not large. It's a very dense population so 12 13 farms are small, but he powered up the entire neighboring village with his solar panels. 14 15 If they can do that in Germany in that kind 16 of climate, why can't we power up our homes that way? 17 Thank you. 18 Thank you very much. CHAIRMAN RHODES: Robert Heintz. 19 20 (There was no response.) 21 Mike Bailey, followed by Eugene Falik. 22 MR. BAILEY: Good afternoon. My name is 23 Mike Bailey. I am a trustee from the Village of

1 Malverne.

I would like to begin by thanking you all,
particularly Mr. Rhodes, formerly of the National
Resources Defense Council, for your activities chairing
this wide ranging process.
As a lifelong resident of New York, I'm
proud that the New York State Draft Energy Plan set
forth a big vision for New York State's future energy.
Quoting, the boldness of our solutions should match the
magnitude of our challenges.
I would like to briefly comment on three
items today. First, as has been mentioned earlier, the
ground source heat pump geothermal projects.
In Malverne, the mayor and the board of
trustees have committed to saving tax money for
residents with careful support of renewable and
sustainable energy, including the soon to be completed
ground source geothermal HVAC project in our own village
hall.
The Cleaner Greener Long Island Regional
Sustainability Plan, which was mentioned earlier, Neal
Lewis who spoke earlier is the co-chair of that,
included a strategy regarding this to encourage

geothermal heat pump projects through education and 1 It proposed the largest greenhouse gas 2 incentives. savings of all the strategies considered on Long Island. 3 The State Energy Plan should provide much 4 stronger support for greatly expanding its clean, 5 efficient and smart technology. 6 Second, the Champlain-Hudson electric cable, 7 which I don't believe has been mentioned today, I would 8 like to ask if it's possible to consider bringing a 9 sister cable along the route that could provide clean 10 low cost electricity to Long Island, so that we could 11 eliminate some of our outdated generation capacity. 12 And finally, electric vehicles and T to G 13 storage, which has not been heavily discussed today. As 14 identified in the impacts and consideration section of 15 16 the plan, findings about the transportation sector in 2011, the transportation sector is responsible for 27 17 percent of the primary energy use in the state, 77 18 percent of all petroleum consumption in the state. 19 Produced 34 percent of our total greenhouse 20 gas emissions, and worst still, 42 percent of the CO2 21 emissions from fuel consumption is just under 75 million 22 23 metric tons of CO2 emissions each year.

1	It's good that there are important goals
2	identified in the Draft Energy Plan concerning
3	alternatives to internal combustion vehicles, and
4	specifically electric vehicles. It's noted that the
5	number of alternative fueled vehicles has been
6	expanding, and New York aims to build on this momentum
7	through strategic investments and policies.
8	And the stated goal is to increase the
9	number of alternative fueled vehicles registered to one
10	million by 2025. However, it should be noted that this
11	is less than a 10 percent market share based on the 10.6
12	million vehicles, cars already registered in the state
13	today.
14	As also stated in volume two of the plan, in
15	July of 2012 alternative fuel vehicles already
16	represented 5.8 percent of the registered vehicles in
17	the state. The percentage has grown by 2.2 percentage
18	points in just two years.
19	So, the goal, though more than a decade
20	away, rejects a four-fold reduction in the current
21	growth rate to less than half a percent a year. It
22	seems the objectives in this area are very timid,
23	particularly in light of the pace of growth that's

internet de la companya de la compan

1 already being achieved.

The vision section sees a future of clean energy jobs, urban renewable, sustainable development and affordable energy and transportation, and the economic opportunity to achieve scale development of energy technology and services.

However, this disconnect between the stated goals and the opportunities, in volume two it's stated that the electric grid has enough capacity to supply electricity to EVs without major investments. And the smart grid and technologies built into the electric vehicles can enable smart charging or charging during off peak hours to help ease grid capacity.

EVs can also help ease electrical demand by providing vehicle to grid power. It's all noted in the plan. However, increasing the efficiency of the grid is a major goal, but it misses the opportunity to seize the leadership.

There is a global competition going on today to create the new Motown for electric vehicles. If the boldness of our solutions should match the magnitude of our changes, then the opportunity for grid storage, reduction of gasoline usage, and dramatic reduction of

greenhouse gases should be accelerated to seize the 1 2 opportunity with leadership and economic development. 3 Thank you for your time. 4 CHAIRMAN RHODES: Thank you very much. 5 Eugene Falik, followed by Judy Beck. 6 Let me depart from my prepared MR. FALIK: 7 remarks for a moment. 8 I don't know that fracking is bad. I think 9 the desirable way to achieve fracking would be to 10 consult with Mr. Harry Potter or Hermione Granger, but 11 in their absence, I think that we need to take into consideration that the state constitution requires that 12 13 the forest preserve be maintained forever wild. The New York City watershed is aided in New 14 15 York City by our own water supply police, backed up by 16 the city police. And I think if necessary to protect 17 the water supply system they would be used. Also, you need to consider that there is a 18 19 Delaware River Basin Commission which regulates the 20 watershed. As I understand it, the fracking is 21 scheduled to take place in the Catskill forest preserve 22 and the New York City watershed. 23 So, what will happen if these people were to

1 contaminate the water supply system? They promise not 2 to, but I think that regulations must be adopted to 3 require anyone fracking to post a bond large enough to 4 secure the cost of repairing any damage to public or 5 private property that they might cause.

Anyone engaged in the process of fracking should be required to demonstrate the resources necessary to replace any public infrastructure that might be damaged in a timely manner. By that I mean without danger to public safety and without unreasonably inconveniencing the public.

Water supplies should be replaced within 12 Nours, electricity within 48 hours in winter and 96 hours in summer. Emergency communications, the ability to call 911, as well as emergency services internal communication, should be repaired within 24 hours.

And note that Verizon has an active policy, number one, of increasing electricity usage by switching people to FIOS, which requires electricity use in every home to call 911. That is less efficient than their current copper based system where they supply the system out of the central offices.

23

Special attention must be given to the risks

1	and costs involved in contamination of the New York City
2	water supply system. What's the probability that
3	fracking problem could contaminate the entire Delaware
4	and Catskill reservoir system? What's the backup plan
5	if the aqueducts were to be compromised? Could the
6	reservoirs be flushed by dumping water into the Delaware
7	or Hudson River? What would the impact be on the water
8	levels downstream? Drinking levels downstream? How
9	long would it take to flush the reservoir?
10	The New York City reservoir system impounds
11	a half a trillion gallons of water. How long would it
12	take to repair and flush it? How could over a billion
13	gallons of water be supplied to New York City and
14	Westchester supply customers with trucks? Are there
15	enough trucks in the country?
16	What would the impact be on the federal
17	government if New York City, which is responsible for
18	approximately one tenth of the economic activity in the
19	country, had to be shut down? Where would people go for
20	shelter?
21	Let me just quickly touch on a couple of
22	other things. Alternative generation. I think every
23	flat roof should be required, through a taxing system,
	· ·

I

 $\bigcirc$ 

 $\sum_{i=1}^{n}$ 

1	to have electric generation on the roof providing it has
2	the physical ability to support it. I think there
3	should be a tax if people choose not to do that.
4	I think all electric lamps sold in New York
5	should be required to have adequate information date
6	of manufacture, true nominal wattage, color, lumens and
7	lumens per watts. They should be required to have a
8	minimal 49 month guarantee based on the manufacture
9	date.
10	People should not need to hold the receipt.
11	Any store selling particular brands should be required
12	to redeem a defective lamp or a lamp that fails to
13	maintain adequate luminosity.
14	There should be a penalty of \$100 per lamp
15	when someone sells a lamp that consumes more than 20
16	watts and fails to provide at least 30 lumens per watt.
17	That would effectively outlaw all incandescence and all
18	halogens.
19	There should be a penalty of \$100 per
20	electric control device, such as switches and dimmers,
21	that don't operate with these new bulbs. It's
22	unconscionable that we have major retailers today
23	selling switches that won't operate with these new

I

.....

1 lamps. Unconscionable I say.

2	There should be minimum standards for
3	electric motors, for internal combustion engines like
4	gasoline blowers and snowblowers. I think you also need
5	to look at the environmental impact of mass transit.
6	And I don't want to attack mass transit, but
7	I think we need to know: Is there really a net saving
8	when we take into account the energy used in operating
9	the equipment? Not really a revenue service, but moving
10	the equipment around, and heating and cooling the
11	building where this equipment is maintained in the
12	offices, and people running around to go to work on
13	these systems.
	-
14	We ought to know what the true cost is. And
14 15	We ought to know what the true cost is. And we also need to know that electric cars are not
15	we also need to know that electric cars are not
15 16	we also need to know that electric cars are not pollution free. Somewhere, the electricity is
15 16 17	we also need to know that electric cars are not pollution free. Somewhere, the electricity is generated. It does not appear at our homes by magic.
15 16 17 18	we also need to know that electric cars are not pollution free. Somewhere, the electricity is generated. It does not appear at our homes by magic. You need to talk about that in your plan, I believe.
15 16 17 18 19	we also need to know that electric cars are not pollution free. Somewhere, the electricity is generated. It does not appear at our homes by magic. You need to talk about that in your plan, I believe. Thank you.
15 16 17 18 19 20	<pre>we also need to know that electric cars are not pollution free. Somewhere, the electricity is generated. It does not appear at our homes by magic. You need to talk about that in your plan, I believe. Thank you. CHAIRMAN RHODES: Thank you very much.</pre>
15 16 17 18 19 20 21	<pre>we also need to know that electric cars are not pollution free. Somewhere, the electricity is generated. It does not appear at our homes by magic. You need to talk about that in your plan, I believe. Thank you. CHAIRMAN RHODES: Thank you very much. Judy Beck, followed by Terry Marrome.</pre>

1	Terry Marrome, to be followed by Marriele
2	Robinson.
3	MR. MARROME: My name is Terry Marrome. I'm
4	a member of the Green Party, Move On, and a few other
5	organizations.
6	I would like to comment first on the
7	economics of fracking. Companies make money by
8	producing a product, and also by selling stock. And
9	while fracking companies are not doing very well at all
10	making a product, they are making a lot of money selling
11	stock and gas and other things, which sort of amount to
12	a subsidy from the public.
13	What happens is that they drill a well and
14	the peak production in the first year, and the casings
15	of the well fail very quickly and they start to pollute
16	the water supply. The well runs dry in a few years and
17	they just move on to a new place and they repollute the
18	water in a new section here.
19	To make the energy transition is going to
20	take real big bucks. Nationwide, I estimated rough
21	calculation that it would cost \$15 trillion, which
22	sounds like a lot of money. That's in 2010 dollars. It
23	sounds like a lot of money except when you compare it to

the bank bailout. The estimates from CNN were 12.8 1 2 trillion and I've seen estimates as high as \$25 3 trillion. So, it's really a political problem as well 4 as a scientific problem. Do we have the political will? 5 It seems like the political will is missing to spend the 6 7 money, but the political will was certainly there when it came to bailing out the banks and the billionaires in 8 this country. 9 I am a retired professor of physics. 10 What I 11 have noticed in the scientific literature is that global warming is slowing down. This is a dirty little secret 12 13 that progressives don't often talk about. I mean I'm 14 not sure that right wingers talk about it, but the 15 latest studies show that it is slowing down and the question is why it is slowing down is the debate in the 16 17 scientific literature. Some scientists say it's because of 18 19 oscillations in the Pacific ocean. Others say -- and this is becoming the prevalent view of it, I think -- is 20 that aerosols, increased amount of aerosols in the 21 22 atmosphere. And they blame it on the Chinese and the 23 Indians for their coal fire plants dumping all kinds of

1 gunk into the atmosphere.

But it's established fact. A 2010 report in Science Magazine showed that the amount of solar radiation reaching the ground was diminished. They said -- in that article it said that the rate of global warming has halved since 2000.

But what the scientists are all afraid to talk about, except maybe some geoengineers who have been saying for years that geoengineering is possible, is that the amount of aerosols might be increasing because we're dumping them in the atmosphere with what's commonly known as a chem trail.

13 This is the easiest you could possibly want 14 to verify because all you have to do is look up at the 15 sky and try to remember when the skies were clear and we had nice blue sky days. There is less energy getting 16 17 through the atmosphere. And I think that in the New 18 York State energy budget, whatever, there should be 19 money allocated to measuring the amounts of solar 20 radiation getting through the atmosphere.

It just makes me mad as I hell when I go out and every single day I see clouds up in the sky. Long Island tried to convince the Suffolk legislature to pass

1 a resolution against spraying up in the sky. We didn't get anywhere. It was tabled I think forever. 2 3 But I don't expect very many political 4 leaders to have the guts to say anything about chem 5 trails because you would be labeled a conspiracy 6 theorist and people usually turn their brains off and 7 ignore all kinds of evidence when anybody brings up the 8 subject. 9 Slowdown in global warming is a reality. 10 Slowdown began in 1998 which is the same year they 11 started spraying. 12 Thank you. 13 CHAIRMAN RHODES: Thank you very much. 14 Marielle Robinson, followed by Philip Healy. 15 While she's walking about can I just check that Laurie and Robert Heintz or Judy Beck are here? 16 17 (There was no response.) 18 MS. ROBINSON: My name is Marielle Robinson. 19 I'm a project coordinator for Long Island Progressive 20 Coalition's Power Up Communities Program. 21 Thank you for having this hearing today. 22 After reviewing the 2014 New York Energy Plan, we at the Long Island Progressive Coalition feel that New York is 23

1 heading in the right direction. 2 Many of the initiatives hit at important 3 issues facing New Yorkers, and with some alterations and expansions, this plan could help progress New York into 4 5 a more environmentally friendly, economically viable future. 6 7 Since 1979, LIPC has been a grassroots 8 community based organization that advocates for 9 sustainable development, for revitalization of local communities, the enhancement of human dignity, effective 10 democracy, and economic, social and racial justice. 11 12 The LIPC has held the fundamental belief 13 that sustainable efficient development, particularly in 14 our low to moderate income working communities, is 15 paramount in reducing the socioeconomic disparities 16 prevalent here on Long Island and throughout New York 17 State. 18 As of 2011, the LIPC is the designated 19 constituency based organization for Nassau and Suffolk 20 counties, operating as an independent contractor to New 21 York State Energy Research and Development Authority 22 under Green Jobs Green New York program.

23

Working in aggregation, a concept outlined

in initiative seven of the energy draft, the LIPC's Power Up Program is focused on outreach and assistance in moderate to low income, underserved communities, connecting homeowners with rebates, financing and certified contractors, and receiving home energy improvements.

7 In many of these communities, the residents 8 believe that energy related work is out of their reach. 9 It's either too expensive or too burdensome to take on. 10 This misinformation, combined with the reality that much 11 of our housing is old, inefficient, and prone to health 12 and safety issues, is literally keeping parts of our 13 state in the energy dark ages.

The LIPC believes that educating underserved communities about the practicality and sustainability of energy efficiency measures will result in more widespread buy-in to energy efficiency and environmental conscious options for everyone.

This community wide education and individual support utilized for aggregation, which is mentioned in the energy draft, will create more sustainable, affordable and overall better quality of life for every resident, especially those living in our lower income 1 communities.

Programs currently funded for the next two years, such as the Green Jobs Green New York initiative, need to continue past 2015 and be expanded upon. In addition to this, we believe that the energy plan needs to make significant investments in solar, wind and other renewable energy technologies.

8 Government and school buildings need to be 9 upgraded and retrofitted and needed to be made a 10 priority in our communities.

In order to continue energy efficiency opportunities and growth, particularly in our low income and underserved communities, as outlined in initiative one of the energy draft, we urge continued support from New York State in programs such as Green Jobs Green New York and beyond 2015.

17 The energy plan should support and enhance 18 aggregation models moving forward, not only due to its 19 great success in marketing energy efficiency 20 improvements to underserved communities, but also for 21 its potential to create an industry of good paying green 22 collar jobs through community benefits agreements. 23 Providing a sustainable energy system across New York

1 requires hiring and wage requirements for all the energy 2 work that is done. 3 We greatly support and emphasize the 4 importance of initiative 15 of the energy draft, 5 pertaining to workforce development in the green sector. 6 Training new workers from low income 7 communities, with the focus on women and minorities, and 8 retraining current workers in the industry, will help 9 create pathways out of poverty and therefore must be a 10 priority in 2014's energy plan. 11 Finally, the LIPC has a long history of 12 supporting repowering of existing plants. Long Island 13 has many old, inefficient power plants that waste 14 energy, but also provide tax relief to local 15 communities. We need to retrofit some of our old power 16 plants and prevent new ones from being built while prioritizing renewable energy and expanding upon our 17 18 current efficiency programs. 19 CHAIRMAN RHODES: Thank you. 20 Phillip Healy. 21 (There was no response.) 22 Will Schweiger, to be followed by Jessica 23 Roff.

1	MR. SCHWEIGER: Hello, and thank you very
2	much for allowing me to speak and share my comments with
3	the Draft Energy Plan. My name is Will Schweiger. I
4	represent I'm here today speaking on behalf of
5	Efficiency First New York, membership of home
6	performance contractors statewide that comprises over 60
7	companies and over 400 individuals that are
8	participating in making homes more energy efficient.
9	I wanted to speak a little bit to the goals
10	of the energy plan. I know you are seeking to create
11	jobs to really kind of revitalize the energy industry in
12	New York, and the energy scope. And I believe through
13	investment in energy efficiency it's a great way to do
14	it.
15	A number of people here today spoke about
16	ground source heat pumps, about solar, about wind power.
17	I think those are all great, and on behalf of my
18	membership I think that those are things that should be
19	explored, but energy efficiency is something that I
20	think everyone can agree that needs to happen in
21	conjunction with that.
22	Only by reducing our energy usage in the
23	first place do we make a lot of these technologies more

1	feasible, more cost effective, and make them more able
2	to be adopted widely across the state.
3	A couple things about energy efficiency.
4	Our membership mostly works within the Green Jobs Green
5	New York programs, and various facilities programs here
6	in the state, to retrofit existing buildings. They
7	could be existing residential buildings as well as
8	municipal and commercial buildings. And achieve an
9	average of between 20 and 40 percent reduction in
10	whatever they are using, whether they are using a fossil
11	based fuel or renewable energy to heat and provide hot
12	water to the building.
13	And these often come with a rate of return
14	on investment of within 10 years and many projects far
15	less. You know, again, in the plan, you guys mention
16	public/private partnerships. And there is no better
17	example of that than the home performance community here
18	in New York State, as well as Long Island, which has a
19	very strong community.
20	New York State has aligned itself with
21	private companies that are trained to test, recommend,
22	and educate consumers about their energy use in their
23	homes on a personal level, and then are in a position to

1 make improvements on those -- on their existing systems. 2 So, I think this is -- really, I can't say 3 it enough. I think it's a really important path. You 4 guys outlined it numerous times in the report itself, 5 and in the draft. I think I would like to applaud you for that. 6 7 I had a couple of comments on what was 8 proposed, and I will be submitting written comments 9 following this later on today. 10 One of the things is increasing market 11 penetration and customer awareness. I think that is a 12 key piece of making our energy hopes for the energy 13 future a reality. 14 You know, right now our market penetration is one percent or less for sure. Until we have reached 15 16 that critical mass where people actually start seeking these services, we are going to have to do a better job 17 18 at incentivizing and finding new and innovative ways to spur interest in these programs and initiatives that 19 have already been established. 20 21 The second thing is there's been the EEPS 22 restructuring plan that's been proposed at the Public Service Commission and has been ruled upon. 23 I would

1 just like to voice our association's wholehearted thanks 2 for that, thanks and support of that effort. I think 3 it's going to go a long way towards revitalizing the 4 energy efficiency industry in New York and making all 5 the things that are envisioned in this report a reality.

Specifically outlined within that report, I 7 feel it's worth mentioning now, is moving to a system where we promote energy efficiency with a fuel neutral 8 9 approach. Regardless of the fuel that people are using, 10 whether it's fossil based, whether it's solar producing energy that they are heating their home, or with 11 whatever they are doing, they should be included within 12 13 the existing energy efficiency program structures.

6

I think having one type of fuel or another 14 15 should not preclude them from participation because 16 reducing energy usage anywhere, I believe, is in all of our best interests. That also helps us with market 17 18 penetration if our membership knows that it can market to anyone and help get them involved. 19

I see my time is up, but I would just like 20 21 to give you my thanks once again for allowing me to participate, and to encourage you to capitalize on the 22 23 existing robust energy efficiency structure that has

1 already been in place. 2 Thank you very much. 3 CHAIRMAN RHODES: Thank you very much. Jessica Roff, to be followed by Kim Fraczek. 4 5 MS. ROFF: My name is Jessica Roff, I'm a 6 fourth generation Brooklynite, and I'm involved with a 7 number of environmental organizations fighting against 8 climate change, and I've done Sandy relief work for the 9 past year and a half. 10 I want to thank you for the opportunity to testify, but I also want to say it's really -- this is 11 not a valid system right now for commentary. There are 12 13 only times during the day for people to come and comment 14 and very few people actually are available to do that. Take my testimony as representing thousands 15 16 of other people who actually have paid jobs. Sadly, I do not so I have the ability to do it. But you should 17 have evenings, you should have weekends, there should be 18 more than five opportunities to testify here in New York 19 State when we are talking about our energy future, which 20 is the future of our entire existence. Frankly, it's 21 disrespectful of the people of New York State to not 22 offer more opportunities for that. 23

1 I would like to say also this is another 2 failed opportunity for Governor Cuomo and New York State 3 to be leading on addressing climate change and being a leader in figuring out an appropriate energy plan moving 4 5 forward. This plan is entirely based on a false 6 7 premise that natural gas is a clean energy. It is not. 8 It is a fossil fuel. It is dangerous and destructive. 9 These are huge problems on the entire plan. Initiatives 6, 8 and 9 are all pushing for a 10 build out and expansion. That is not going to help us. 11 12 If we keep building out fossil fuel infrastructure, then we are going to continue to destroy communities 13 14 throughout New York State. 15 People in Minisink are already getting sick from a compressor up there. People in the Rockaways are 16 17 barely recovered at all, and some people are not at all 18 recovered, and they are building a Rockaway pipeline, 19 which is, one, going down one of the major exit routes, 20 one of the main transportation hubs, and two, this is going to bring fracked gas, highly toxic with radon, 21 into people's homes. That is another massive problem. 22 23 I'm glad that the plan is actually starting

1 to talk about carbon dioxide and addressing some of the 2 emissions issues, but there are no real standards and 3 benchmarks for addressing it in the plan. In addition, it's like sticking our heads in 4 5 the sand by only talking about carbon. We need to be 6 talking about methane already. It took us 40 years to 7 get us to talk about carbon. That's great. Methane is 8 more destructive. It needs to be addressed. 9 When you base an entire energy plan on the 10 use of "natural gas" then you are just exacerbating the problem that leads to a situation where we have the 11 12 Rockaways. 13 So, three minutes. I'm going to talk really 14 fast. Also the problems regardless of whether we 15 drill in New York. Yes, I want a ban on fracking in New 16 17 York, but I don't want to destroy our neighbors in 18 Pennsylvania for our energy costs. That's not fair. 19 It's not a productive solution. We need to be moving 20 all of this forward towards actually having a renewable 21 energy plan. 22 And we need a comprehensive plan that 23 involves energy efficiency. You can't address energy

1	choices without addressing energy efficiency, and that
2	is not addressed with real bench marks or real numbers
3	or real money put away in this plan.
4	Transitioning to renewables also has to be
5	done in transportation. Our transportation system is
6	completely dependent on fossil fuels in this system. We
7	need to be transitioning towards electric and other
8	positive ways to power our transportation system.
9	The boiler conversions that are pushed in
10	initiative 9 are also a false premise of this is a good
11	thing. Burning methane is actually more destructive
12	than burning coal and it needs a massive particulate
13	matter as well. The whole purpose of these gas boiler
14	transitions is supposed to make it better for people
15	with respiratory and asthma, and it makes it worse.
16	It's not clean. It's not healthful. It's not moving
17	forward.
18	We need to be promoting wind power, such as
19	the Long Beach offshore wind farm, and not approving a

20 Port Ambrose LNG port. They are for the same location.
21 It can't happen. If we shut the coal and natural gas
22 and nuclear power plants, we will be moving forward. We
23 have to be stopped subsidizing the fossil fuel industry,

.

1	because if we are subsidizing the fossil fuel industry
2	it's not a fair playing field to be working towards
3	renewables.
4	In fact, if we take the subsidies and put
5	them toward renewables, we will actually move the system
6	forward and that will be much more productive.
7	Also, the Green Bank that's addressed in
8	this plan seems to be there's too many questions open in
9	it if we are investing in fossil fuel because, as I
10	said, it's a false premise that clean energy includes
11	natural gas, which it does not, then we will further be
12	subsidizing investments in something that's only
13	destructive.
14	There's no description of what the
15	public/private partnerships must be in this plan. And
16	I, as a cynical New Yorker, am convinced that would
17	probably be a lot of fossil fuel money, if you ask me,
18	based on the fact that a lot of this language actually
19	looks like it came straight out of publicity information
20	from the natural gas industry. That is a warning sign
21	right there.
22	Further, let's see, that raises issues of
23	initiative 11, talk about transparency and energy

ſ

.....

123

I

We need to actually know where the money comes 1 choices. 2 from. We need to have true energy choices. Most people 3 don't have that. If we give lip service to transparency 4 but there's no actual choices, it doesn't matter. Ιf 5 you are choosing between natural gas, tar sands and 6 nuclear, that is not a choice in energy. That is a 7 public health crisis.

8 And that is where we are. We are at a 9 critical point in New York State and in the world, and if we are going to build forward after rebuilding from 10 11 Sandy, then we need to be making a transition to renewables, which most of us already know, although it 12 13 seems the governor is unwilling to make that bold step. 14 And our choices have to have an impact on 15 what we do day to day. It can't be whether we turn on

16 our television or not. It has to be about what energy 17 is doing to the actual climate in which we live.

We need to be moving towards renewables, we need to be investing money, we need to be giving our lip service and actually putting our walk in the walk and not just talking the talk, in order to prepare for the future and our energy choices.

23

CHAIRMAN RHODES: Kim Fraczek, followed by

1 Rich Thomas.

2	MS. FRACZEK: First, I would like to address
3	the same point that Jessica Roff had just made about
4	asking for public input on very important energy
5	policies. Six locations on inconvenient weekdays, I'm
6	getting a feeling that New York State isn't quite
7	interested in getting real input from New York State
8	residents.
9	I reviewed the plan initiatives and I want
10	to add a few highlights for you to consider.
11	Initiatives one and 11 mention wanting to keep
12	information clearly labeled and accessible to the people
13	of New York.
14	And I would like to point out that there's a
15	bill right now in the health committee, bill number
16	A6863, which is going to demand that our utility
17	companies monitor and report levels of radon that are
18	coming into our state from the new natural gas coming
19	from fracking in Pennsylvania.
20	Initiative two discusses building models for
21	our energy sources. We must turn off fossil fuel
22	consumption and retrofit and switch to doable renewable
23	and sustainable energy sources.

1 Initiative four encourages business to 2 invest in clean energy, and we'd like a tighter 3 definition to include what clean energy means, because 4 my community does not include natural gas as a form of 5 clean energy as is marketed to be on TV and radio. 6 Initiative six is asking to modernize 7 infrastructure but includes fossil fuels such as gas, as 8 it includes modernization of gas delivery systems. 9 Instead, the words "and gas" should be eliminated from 10 this initiative and all support for further fossil fuel development should be eliminated from this initiative 11 12 action plan. 13 I applaud initiative seven to support 14 community based energy, however, the details of 15 public/private partnerships that are intended to usher 16 in economic growth need to be clearer. Partnerships with fossil fuel companies or fossil fuel infrastructure 17 companies are not advantageous to the long term economy 18 19 of New York State for a stable climate. 20 Initiative eight, this is completely out of line for a forward thinking state. If New York State is 21 22 spending funds on rebuilding fossil fuel infrastructure, 23 and protecting that infrastructure and its citizens from

1 devastating climate change induced floods, why would 2 this plan agree to an advocacy of fossil fuels as future 3 floods become worse?

It is truly discouraging to see a well thought out plan to adapt the climate change but similarly experience plans to prevent it from reaching catastrophic, unsalvageable levels.

8 I know my time is running short, but many of 9 my comments about the initiatives have been submitted in 10 writing.

What I see is that our government likes to talk about renewable energy but we are not actively putting this to work. I'm appalled that Cuomo is considering the Port Ambrose LNG port in the same exact place as an offshore wind farm to frack the US up and ship it out to the highest international bidder.

We are rolling out the red carpet for a natural gas power plant in Middletown that will poison us. My friend in Minisink, New York, right now, in the middle of lush New York State farmland that supplies our farmers' markets with fresh organic food, are suffering with dizziness, nose bleed, poisoned soil, because of the natural gas compressor station, because we continue

1	to invest in fossil fuels instead of taking a chance to
2	be a leader.
3	And I also want to point out that our
4	senators are not paying attention to these people who
5	have been standing outside their offices to deliver a
6	letter. They are being completely ignored.
7	I just returned from a trip to West
8	Virginia. We could not even brush our teeth with the
9	water there, blistering from the current chemical spill
10	mess there. Our hosts provided us with purchased
11	bottled water. Business owners are taking out bank
12	loans to keep their businesses going and have to
13	purchase water now to make ice cubes for their
14	restaurants.
15	Kids can't take baths. Parents can't clean
16	their kids without purchasing paper products. This is
17	because of our continued investment in fossil fuels. Is
18	this our future if we don't take renewable and
19	sustainable energy seriously? New York State is looking
20	into our future. It is West Virginia if we continue to
21	invest in fossil fuels.
22	Our next door neighbors in Pennsylvania are
23	losing their water, home values, farmland, right in line

128

.

1 like West Virginia. New York should say no to being a 2 customer to this form of energy, energy, let alone offering its citizens up to sacrifice themselves for a 3 4 company's profit to get funneled into tax savings 5 through Wall Street, leaving us poisoned and voiceless. We are in a unique position right now to say 6 7 no to caveman energy and be true leaders standing up to 8 a giant, smothering industry, and creating an example for a healthy, sustainable future. 9 10 We actually have the choice to be healthy It breaks my heart that we have to beg the 11 and happy. 12 little that is left of our democracy to take care of its 13 citizens. Thank you. CHAIRMAN RHODES: Thank you very much. 14 15 Rich Thomas, to be followed by Andrew 16 Collver. 17 MR. THOMAS: Good afternoon. Thank you for 18 the opportunity to share our views on the proposed New 19 York State Energy Plan. My name is Rich Thomas, and I'm 20 the Director of New York AREA, which is an acronym for Affordable Reliable Electricity Alliance. 21 We were formed shortly after the 2003 22 23 blackout and promote policies to ensure that New York

has ample clean, affordable and reliable electricity. 1 2 I am here today on behalf of our chairman Arthur "Jerry" Kremer, who hails from Long Beach, having 3 been chair of the Assembly Ways and Means Committee and 4 principal author of New York's Power Siting Laws. 5 The 2014 Draft State Energy Plan begins an 6 7 important conversation about the economic and 8 environmental future of our state. The plan provides an encouraging start and we offer the following thoughts on 9 affordability and reliability to help improve the draft 10 11 plan. For starters, the plan should set a goal of 12 13 keeping more of New York's energy dollars in the state. 14 According to the plan, New York currently imports 15 15 percent of its electricity from Canada and other states. We should be a net seller of power out of state. 16 17 This will ensure we have abundant energy infrastructure, with good paying, skilled middle-class 18 19 jobs, while keeping billions of dollars in the state annually to stimulate, and in some places revitalize, 20 the state's economy. 21 22 We should never be at the mercy of out of 23 state providers of energy who could have an economic

1 stranglehold on our economy.

2	Subzero temperatures and frequent snow
3	storms between January and February 2014 pushed some
4	energy systems to their limit. According to the
5	Montreal Gazette, Hydro-Quebec was nearly unable to meet
6	its demand and required some New York-generated
7	electricity to rescue its ratepayers from rolling
8	blackouts during the deep freeze.
9	At the same time, the New York Independent
10	System Operator, NYISO, reported that New York set a new
11	winter electric demand record of 25,738 megawatts of
12	electricity on January 7, 2014, eclipsing the 2004
13	record of 25,541 megawatts.
14	In June 2012, Con Edison warned that the
15	lack of fuel diversity would cause significant price
16	volatility for ratepayers, especially in natural gas
17	prices.
18	Fast forward to today. Our energy system
19	has grown more reliable on natural gas and system
20	constraints have brought Con Edison's forecast to
21	fruition.
22	The U.S. Energy Information Administration
23	indicated that the northeast experienced record

\_\_\_\_\_

1	withdrawals from the northeast's natural gas reserves
2	this winter. These increases are especially hard on
3	those with fixed incomes and the poor.
4	Given the supply shortage and steep rise in
5	demand for heating and electric generation needs, Long
6	Island ratepayers paid a \$17 surcharge for natural gas
7	beginning on January 1, 2014, and have been subject to
8	six subsequent rate increases by the Long Island Power
9	Authority, whose system is now managed by PSEG.
10	A Newsday article quoted a ratepayer as
11	saying, "this bill just killed me", said William Jones
12	of Wading River, referring to his bill that jumped to
13	\$435 from \$179 last month.
14	An issue brief by New York AREA Chairman
15	Jerry Kremer provides additional insight as to why Long
16	Island ratepayers are struggling to achieve an
17	affordable energy system.
18	He notes that the premature closure of the
19	Shoreham nuclear plant contributed 5.6 billion in debt
20	to LIPA's balance sheet. This translates into \$2,074
21	for every man, woman and child living on Long Island.
22	For a family of four, a little over \$8,000. And this is
23	just principal alone.

The State of New York should carefully consider lessons learned on Long Island and the impact of higher electric rates for the rest of the Empire State, and end its opposition to license renewal for Indian Point, which supplies 11 percent of New York's power.

7 Indian Point has earned the independent US 8 Nuclear Regulatory Commission's highest safety rating in 9 each of the past nine years and has virtually zero 10 carbon missions.

Another important solution to New York's energy challenges is the Port Ambrose deepwater port project, which would be located 18 and a half miles off the coast of Long Beach. This project offers an opportunity to increase reliable access to natural gas for winter and summer peak periods.

The ICF International estimates the pricing impact to be as much as a four percent reduction in the overall annual price of natural gas. Also, it would offer much needed stabilization because of impacts on cold peak winter days.

22 This represents an annual direct savings of23 up to \$325 million for New Yorkers. If the naysayers

1 continue to oppose projects on land, then why scrap any 2 effort to build something in the ocean? It's got to be 3 sited somewhere, especially when the pipeline already 4 exists.

As previously noted, pipeline constraints have dramatically increased the price of natural gas in the region. Port Ambrose increases access to a reliable flow of natural gas to deliver more supply into the Long Island, New York City, and downstate market, thereby reducing price for customers.

Port Ambrose will also be an important economic benefit for the region's economy as it will create over 600 construction ready jobs, provide an investment of over \$90 million in local goods and services. Further, it will not be an export of gas out of the region. It will provide for gas users in this region who desperately need it.

We commend the state for embarking on this long range study of our energy needs. This is not the time to slice and dice the plan to accommodate some groups that oppose a particular form of energy. Our state needs more power, not less.

23

I have written comments and I will submit

1 them.

2	CHAIRMAN RHODES: Thank you very much.
3	Andrew Collver, followed by Bob DiBenedetto.
4	MR. COLLVER: My remarks are about the
5	technology of these renewable energies. They have been
6	talked about like they are here, let's go out and buy
7	them. I think it's like when you go buy 1980 computer
8	or something. We need upgrading and innovations.
9	In 1975, I dared to be a pioneer in
10	renewable energy. As director of interdisciplinary
11	program at Environmental Studies at Stony Brook, I
12	thought it was my duty to show a good example.
13	The system I tried was made of aluminum roof
14	panels blackened to maximize heating. The heat was
15	captured by a refrigerator gas, circulated through the
15 16	captured by a refrigerator gas, circulated through the panels, and then to a compressor. I was told that the
16	panels, and then to a compressor. I was told that the
16 17	panels, and then to a compressor. I was told that the compressor reached 800 degrees. It was powerful enough
16 17 18	panels, and then to a compressor. I was told that the compressor reached 800 degrees. It was powerful enough to keep us in hot water all year round, and then to heat
16 17 18 19	panels, and then to a compressor. I was told that the compressor reached 800 degrees. It was powerful enough to keep us in hot water all year round, and then to heat the house night and day through the winter without any
16 17 18 19 20	panels, and then to a compressor. I was told that the compressor reached 800 degrees. It was powerful enough to keep us in hot water all year round, and then to heat the house night and day through the winter without any help from the oil burner.

1 habit of burning oil.

2	I don't know whatever became of that system,
3	but it still seemed like a great idea to me. All it
4	needed, as far as I know, was a compressor especially
5	designed to operate at high temperatures.
6	The other day I was looking at some solar
7	panels at an exhibit. They, too, are black. I thought
8	how much heat they must produce in the summer. Probably
9	they would put out more heat than electricity.
10	Why waste that heat? Can it be put to work
11	heating water? Could it be converted into electricity
12	somehow? And could electricity generated in the noonday
13	sun be saved in a small, affordable storage device in
14	the basement for use at night and then cloudy days and
15	the blackouts of the electrical grid?
16	No doubt scientists have theoretical answers
17	and complex equations to show that these things can be
18	done, but I don't see practical applications that are in
19	any store or yellow pages.
20	These are the kinds of questions that I
21	would like to see addressed in the New York Energy Plan.
22	How are we to fund the research and custody, trial and
23	error process of looking for the most efficient and cost

.

effective materials and designs? 1 How are we to support the pioneers who dare 2 to start new businesses producing and installing new 3 This can't be done by a lone tinker in a 4 systems? garage or a barn. It calls for the kind of resources 5 that we have already in the state university system and 6 7 Brookhaven Lab. The tools and talent are there, but we need 8 to put them to work. That takes money. Not money that 9 a private entrepreneur can afford to invest. Big energy 10 corporations could do it, but they have no incentive to 11 do so as long as their supply of fossil fuels holds out. 12 An answer, I suggest, is to collect a tax on 13 coal, oil and natural gas, and use that money to fund 14 research development and early entrepreneurship in 15 16 renewable energy. The Empire State and Long Island are known 17 as leaders in many fields, but it won't do to sit back 18 and reminisce about our past glory. The question is 19 always, what have we done lately? Let the answer be: 20 New York leads the transition to renewable energy. 21 Thank you very much. 22 CHAIRMAN RHODES: Up next, Bob DiBenedetto, followed by Tim 23

1	Reilly.
2	MR. DIBENEDETTO: Thank you. My name is Bob
3	DiBenedetto. I am the president, executive director,
4	and one of the founders of an organization by the name
5	of Healthy Planet. We teach people about how their food
6	and lifestyle choices impact their body and the world in
7	a very profound way.
8	First, I would like to mention that we
9	encourage the part of the initiative number nine that
10	supports research to enable the quantification of public
11	health benefits so that they may be incorporated into
12	energy planning and policies.
13	MIT recently estimated that air pollution
14	causes 200,000 early deaths each year. Energy planning
15	and policies created without properly quantified public
16	health impacts are dangerously inadequate.
17	Every energy policy decision ought to be
18	made with quantifiable public health impacts as part of
19	this equation. Those suggesting that fossil fuels and
20	things such as liquid natural gas are going to save us
21	money are not in touch with the fact that burning fossil
22	fuels have monetary, health, social impacts on all
23	people living on this planet.

I

138

1	With that in mind, second, while the plan
2	commits to reduced greenhouse gas emissions in New York
3	by 80 percent by 2050, there are almost no specific
4	interim goals or benchmarks for the state to meet before
5	2050. That is a problem.
6	A few years ago, the Long Island Clean
7	Electricity Vision Report was released. It outlined a
8	blueprint and cost estimates for getting Long Island 100
9	percent off of fossil fuels for residential electricity
10	generation by 2020, and a plan to get 100 percent away
11	from fossil fuels for use for electricity generation for
12	all purposes by 2030.
13	It's that kind of vision, together with
14	clear mandates for enforceable benchmarks along that
15	path that we need in New York State. We can't treat it
16	as just an idea. It needs to be a vision with a plan.
17	I will also echo the sentiments of many
18	other speakers that the state should recommit itself to
19	meeting the energy efficiency and renewable energy goals
20	it set for 2015, and set even more aggressive efficiency
21	and renewable energy goals for coming years.
22	We support the extension of the state's
23	renewable energy target to committing to deriving 50

Г

139

percent of New York's electric energy from renewable
 energy sources by 2025.

3 When we look at other forms of energy and we 4 say that they are cheap, such as natural gas, and we 5 ignore their health impacts, and yet we take something 6 such as energy efficiency, that puts people to work and is completely about reducing energy use with the same 7 8 impact as adding more fossil fuel energy use, but 9 without any of the downside, we think people who are 10 promoting fossil fuels are only looking at half the 11 equation.

And we also would suggest that New York State commit very soon to decommissioning its nuclear power plants and abandon any plans to increase energy generating capacity from nuclear sources.

16 There is no solution for the problem of 17 disposal of highly radioactive waste produced by nuclear power plants, and ongoing toxic releases from these 18 19 plants, both planned and accidentally, they pose 20 catastrophic risks to humans and the environment. 21 And Long Island is still paying the price for bizarrely myopic decisions made around nuclear at 22 23 Shoreham several decades ago. Bizarrely myopic. And

1	speaking about bizarrely myopic, we have a very bizarre
2	situation in our country right now.
3	We have all the scientists in the world, all
4	the credible scientists who are clearly stating that
5	climate change is a problem, and yet we have politicians
6	on a national level stating such things as, well,
7	climate change doesn't exist. We used to think it was
8	global cooling. Now it's called global warming. The
9	earth hasn't cooled hasn't warmed in the last 15
10	years. Therefore, there is no climate change.
11	I say bizarre because it's not true. There
12	is a clear scientific consensus, and it's good to see
13	that New York State has acknowledged this clear
14	scientific consensus.
15	What we would like to see, however, going
16	forward, again, to reiterate, is a plan to take what we
17	know and put it into action, as if it was a life and
18	death situation, because it really is.
19	And the fact that it's a life and death
20	situation could explain why there's such emotion coming
21	from the audience when someone tells them that something
22	that has the potential to sicken and kill their children
23	is good for Long Island.

I

 $\langle$ 

/~\_\_\_

1 Thank you. 2 CHAIRMAN RHODES: Thank you very much. 3 Tim Reilly. (There was no response.) 4 5 Corey Tyler. 6 (There was no response.) 7 Tom Ryan, to be followed by Charlotte Koons. 8 MR. RYAN: Chairman Rhodes, esteemed board, 9 good afternoon. My name is Tom Ryan. I currently work on Long Island and have been a 20 year plus resident of 10 Nassau County. I'm also the president of Boilermakers 11 Local 5. Our geographical jurisdiction covers almost 12 the entire State of New York. 13 14 Today I speak on behalf of my membership, 15 the hundreds of boilermakers, blacksmiths, and metal 16 work mechanics of New York State. We believe it is critical to take a realistic and balanced approach to 17 safeguarding our energy future. 18 19 We urge New York State to support the clean 20 and efficient production of energy by hydropower, 21 natural gas, nuclear, oil and coal responsibly. We find aspects in this plan to be troublesome to the 22 23 hardworking taxpayers of the state.

Volume one, page 49, issue 15, a retraining 1 on short courses? Volume two, page 122, however, there 2 continues to be critical shortage of skilled workers? 3 We have highly trained, highly skilled workers. 4 Boilermaker apprentices have to meet 6,000 5 hours of hands on build instruction, plus 600 hours of 6 classroom instruction, and a plethora of safety 7 training, before they are even considered for graduation 8 to journeyman status. What we need is repowering, not 9 10 retraining. Further on, volume two, page 122, New York's 11 total electricity requirement to meet the need of all 12 sectors combined is expected to grow at an average annual rate of 0.7 percent every year from 2012 to 2030.

13 14 Further on, it talks about the seismic risk to Indian 15 16 Point on page 164. On page 163, the aging infrastructure. It states that 59 percent of electric 17 generation was constructed before 1980, with an average 18 age of steam generation in New York State of over 40 19 20 years. And I have to ask: Then why is the 21

21 And I have to ask: Then why Is the 22 governor, via-a-vis the Public Service Commission, not 23 granting final power purchase agreements for plants

143

1	already sited and welcomed by the local populus, such as
2	Cricket Valley Energy and CPB Energy in Waywayanda?
3	What about underutilized space, already
4	sited and zoned for power generation, such as Barrett
5	Station and Island Park. To dismantle this in New York
6	State, will their power production also be impaired?
7	As for the New York Green Bank, \$1 billion
8	of taxpayer dollars out the window, financing
9	unrealistic energy, unhelpful for New York's base load
10	power. Going to foreign countries? Powering across
11	borders?
12	Please, stop taking blue collar tax dollars
13	to stop green collar job creation. Please let New
14	Yorkers power New York.
15	On volume one, page 56, there's a quote that
16	one of the goals in the energy plan is to increase New
17	York energy dollars to be retained in the state.
18	We, the people of New York State, implore
19	you to please do this efficiently and responsibly and
20	stop the Champlain Power Hudson Express. Please keep
21	generation of power localized in New York State. Let
22	New Yorkers power New York.
23	There's one key takeaway here and I

Γ

.....

respectfully understand that Governor Cuomo does not 1 2 have the time nor the energy to read all through the 3 public records -- but if there's one key takeaway I 4 would love the governor to know, that Canadians and out 5 of state workers cannot vote to reelect him as governor 6 of New York State. 7 We respectfully ask the Public Service Commission and this board to let New York State be 8 9 powered and energized within New York State by New 10 Yorkers. 11 Thank you very much. 12 Thank you very much. CHAIRMAN RHODES: Charlotte Koons, followed by Gladys Paulson. 13 14 MS. KOONS: Good afternoon. I have been a 15 resident of Eatons Neck Northport for 56 years, and I live in a two acre zone where I have a herd of seven 16 17 deer and lots of foxes, etc., and try to be as energy efficient as I can. 18 But I am here to speak out, courtesy of Food 19 20 and Water Watch, that really online let me hear about 21 this. And I would like to end this with a poem. At almost 80, I must keep hope alive. 22 As a 23 child of immigrants I have thrived here on Long Island's

Cozy home, dear friends, my health, who could 1 shore. 2 ask for more? Yet in all good conscience I must speak 3 out about Governor Cuomo's NYSERDA plan, which has some fine rhetoric and lofty goals, yet which has us stick to 4 5 fossil fuels and does not really address the LNG export facility planned for Long Beach's pristine sands. 6 7 We here on Paunmonok's fish-shaped isle 8 cannot keep still while recalling Sandy's devastation 9 and this brutal winter's realization that climate change has gripped this nation, and that the NYSERDA plan 10 11 offers no real solutions to dirty energies, escalating pollutions. 12 13 Governor Cuomo, hear our pleas. There needs 14 to be some real-time strategies and funding for Long 15 Island's needs. Thank you. Thank you very much. 16 CHAIRMAN RHODES: Gladys Paulson, to be followed by Elizabeth 17 Broad. 18 19 MS. PAULSON: Good afternoon. I'm following poetry with prose, I'm sorry for that. I love that 20 21 poem. 22 My name is Gladys Paulson, and I thank you 23 for being willing to hear the opinions of the people of

New York State. I am here to urge you to make renewable 1 2 energy the prime focus of the New York State Energy Plan, and to not allow New York State to become a 3 facilitator for the use of fossil fuels that damage 4 5 health and the environment. On a personal note, we in my first family 6 7 are lifelong residents of the highly polluted New York metropolitan area, which means that we lived during the 8 9 time of leaded gasoline and the heavy air pollution of the 1960s, specifically in Queens, Brooklyn, Long 10 Island, Suffolk County and Westchester. 11 I am a survivor of breast cancer. My sister 12 is a survivor of thyroid cancer. And my father is a 13 survivor of basal cell and squamous cell carcinoma. 14 Μv 15 mother, who died in 2011, was diagnosed with bladder cancer, breast cancer. My other sibling, my younger 16 sister, moved away from the New York metropolitan area 17 in her 20s. She has never had cancer. 18 As your energy plan states, damage to health 19 and the resulting economic impacts will be lessened if 20 21 we switch to alternative fuel sources. Unfortunately, natural gas is seen as a cleaner than coal fuel, which 22 it is not, if all the steps taken to extract the natural 23

1 gas and release of methane into the air are taken into 2 account. 3 We are all aware of the hundreds of diesel

truck trips that are needed to build in fracked wells, 4 5 the migration of fracking fluid and methane below 6 ground, the need to transport and store used water, the 7 poisoning of wells, animals, people and land, and the tearing down of trees to make roads for heavy equipment. 8 9 We all know that clean natural gas is really a very dirty business. In the movie Triple Divide, 10 which was shown at the Rosendale theater last week, I 11 learned that the pressure that lead the fracking fluid 12 13 into the ground not only cracks the shale it's intended to shatter, but creates a pressure bubble, which is 14 15 surrounding the targeted shale.

This pressure bubble may cause unintended vertical and horizontal cracks that would allow methane to travel in unforeseen directions for unknown distances.

Fracking causes a lot of unforeseen, unknown, uncontrollable reactions which make it inherently unsafe and certainly not clean. What makes fracking even dirtier than the problems mentioned above

is the fact that the gas companies are rarely held
 accountable for the damage they cause to people, land,
 water and air.

If recent events in Pennsylvania and West Virginia are any indication, the government agencies created to protect their citizens are often to protect the deep pocketed corporations that cause the damage.

8 The dirty business is not in the interests 9 of New York and certainly is not appropriate for a state 10 that should be a leader with all the resources and 11 intelligence and universities that we have here, a 12 leader in the movement towards renewable energies.

New York State has a wonderful opportunity to go forward with wind power off Jones Beach and Montauk Place. The jobs created may allow manufacturing to return to New York, especially with the tax free zones that are being established, but our state's leaders must be focused on getting away from fossil fuels, and the energy plan should reflect this.

A strong belief that it can be done and willingness to support renewable energy needs to be evidenced. Unfortunately, the building of a natural gas line, compressor station, and the debate over the Port

[	
1	Ambrose LNG site, belies the state's dedication to
2	renewable energy.
3	New York needs to stop waffling and make a
4	firm commitment to move away from fossil fuels, and stop
5	relying on natural gas to make it a so-called green
6	state. The leadership needs to be there.
7	In the 1970s, when there was no oil, we
8	drove smaller cars at a lower speed because it was
9	needed and because it was mandated. Our president wore
10	a sweater so he could turn down the thermostat. Solar
11	panels were installed on the White House roof.
12	When the oil crisis was over, our nation
13	went back to bigger, bigger cars, higher speed limits, a
14	massive number of wells to blast the shale, and we are
15	reaping what we have sown in our worsening health, birth
16	defects, air pollution, water pollution, light
17	pollution.
18	We have to look at the total cost of the use
19	of fossil fuels, not just the price for gallon of BTU.
20	And when we do you will see there is no such thing as
21	cheap energy when it comes to fossil fuels.
22	I'm grateful for the opportunity to share
23	with you my thoughts about the energy future of New

.

..-..

In conclusion, in addition to banning fracking 1 York. 2 outright, I would ask that the New York Energy Plan include instituting a carbon tax, and include a study 3 for a recommendation that school buses that run on 4 5 petroleum diesel be phased out because those fumes are very, very bad for little children. 6 7 Thank you. 8 CHAIRMAN RHODES: Thank you very much. 9 Elizabeth Broad, followed by Beth Fiteni. MS. BROAD: Hello. I am here representing 10 Catskill Mountainkeeper. Thank you for giving me the 11 opportunity to speak. As it's already been said, it 12 13 would be great if there were more hearings and during the weeknight and weekend hours. 14 15 A couple of weeks ago, Secretary of State 16 John Kerry declared that climate change can now be considered another weapon of mass destruction, perhaps 17 the world's most fearsome weapon of mass destruction. 18 19 He compared climate change deniers to people who believed the earth was flat. We need to see clearly, as 20 21 the Secretary of State urges, and also to take action. Every reputable scientist in the world has 22 23 been sounding the alarm for some time that unless we

drastically cut our greenhouse gas emissions, the 1 2 apocalyptic weather we have been experiencing is only 3 the tip of the iceberg, which is ironic, since Arctic 4 ice itself is melting at a record rate. 5 Given the dire, unprecedented global crisis 6 we face if we do nothing, the State of New York must act 7 boldly, showing real leadership by formulating and 8 presenting an ambitious plan of action that would slash greenhouse gas emissions and transition from a fossil 9 10 fuel based economy to one run on renewable energy. Unfortunately, the Draft New York State 11 Energy Plan only perpetuates the use of climate change 12 13 accelerating fossil fuels, and would meet energy needs by producing or importing massive amounts of fracked 14 15 gas. While future goals should include limiting 16 17 all greenhouse gas emissions, this plan would only commit to reductions of carbon dioxide until after 2030, 18 19 ignoring methane, which the Intergovernmental Panel on Climate Change says will contribute to global warming 86 20 21 times more than carbon dioxide over the next 20 years. 22 Increased usage of fracked gas would also 23 require construction of a massive shale gas

1	infrastructure, including compressor stations and
2	pipelines, that pose major health and safety risks.
3	In the town of Minisink in Orange County, a
4	compressor station was recently built in the middle of a
5	residential community, causing a major disruptive
6	impact, and there are serious concerns that local
7	residents are becoming ill from air emission.
8	Adding insult to injury, many Minisink
9	residents are first responders from 9/11 who left the
10	city for a clean environment for their children. Now
11	these first responders are suffering from increased
12	involuntary exposure to toxic chemicals in their own
13	backyards.
14	The enormous health risks associated with
15	air pollution caused by compressor stations are also not
16	taken into account with this draft plan.
17	Rather than building a fracked gas bridge
18	down the dead end road of fossil fuels, we should
19	support the work that is already happening in New York
20	State to expand renewable energy development. Power
21	generation from wind and solar more than doubled in our
22	state between 1990 and 2012, surpassing any other energy
23	source.

This plan unfortunately makes no significant commitments to increase the proportion of our energy produced by renewable sources in the long term, despite substantive academic research showing that the technology and capacity to create 100 percent of New York's energy from renewables is possible by 2050. All that we are lacking is the political will.

Just over the border from Pennsylvania, where fracking has caused significant water and air pollution, lies Broome County, the oil industry's first fracking target in New York.

But even now, southern tier pioneers are developing an exciting campaign to expand solar to more households, schools, businesses and municipalities to show that we can create real energy independence that doesn't contaminate the water, pollute the air, or risk major explosions.

The number and diversity of people in Broome Ocunty who are committed to this project demonstrates that renewable energy can be a viable alternative to shale gas. Binghamton gets 20 percent more sun than anywhere in Germany, one of the countries that is leading the world in the use of solar energy.

1	We have a chance to turn things around in
2	our state and the country at large, but we need the
3	drafters of this plan to be as ambitious as my
4	colleagues in the southern tier.
5	It's truly laudable that Governor Cuomo has
6	announced major initiatives, such as expanding and
7	extending the New York Sun program, and launching
8	K-Solar, so that New York State schools can serve as
9	demonstration hubs to increase solar in their
10	communities.
11	Another very exciting new initiative is the
12	creation of the Green Bank to accelerate the flow of
13	private capital to energy efficiency and renewable
14	energy projects in New York.
15	However, if clean energy includes the use of
16	fracked gas, it will negate the potential success of the
17	Green Bank, and ultimately, the legacy of Governor Cuomo
18	and our state to lead the world.
19	We have a tremendous opportunity to act as
20	leaders, so let's not squander it with weak goals and
21	continued reliance on dangerous fossil fuels like gas.
22	CHAIRMAN RHODES: Thank you very much.
23	Beth Fiteni. She is the last request.

Г

 $\mathbb{C}$ 

· · · ·

Afterwards, I will go through the six folks who have
been no shows to see if they are here.
MS. FITENI: Thank you very much. I'll be
very brief. I know most of the people in the room have
been working on energy issues for many years on Long
Island, and I just wanted to enter into the discussion a
couple of studies that have been done on Long Island, so
they are Long Island centric but they may help inform
the state plan.
One I think was mentioned already. It was
done by Renewable Energy Long Island, an organization
that was here earlier. Actually, they hired Synapse
Energy Economics to do a study saying that we could
power all of Long Island with renewables by the year
2030. It's a very interesting study. They achieved
those conclusions.
So, it's something to look at. I'm happy to
put this in writing later on with my comments.
Also there was a carbon footprint study that
was done by the Roche Foundation several years ago, and
I believe the goal is to look at the carbon footprint of
Long Island regionally every five years, and I believe
now it's NYIT that has taken up that study. And also of

Г

course the sustainability, the regional sustainability 1 2 plan. 3 Someone also mentioned many of the organizations on Long Island helped put that together, 4 including the one I work for during the day, but I'm not 5 6 representing them right now. 7 One other thing I just wanted to mention is 8 that, while I have been working on energy issues for 9 many years, one of the sort of gaps that I see is with 10 solar thermal. As far as I know, I remember LIPA did not really have an incentive for solar thermal, just 11 12 solar hot water, except for people that had electric NYSERDA's program is the same way. So, it's 13 heating. 14 just sort of a gap that leaves out a lot of people from having an incentive for solar thermal, which is a great 15 way to use solar energy. 16 17 Just in general a final comment is that 18 there is a lot of confusion about incentive programs on 19 Long Island. In my job, I happen to represent one of 20 these agencies, I don't want to say which, but I ended up really giving advice to my customers on all of them 21 because we have incentives from NYSERDA, also now from 22 23 PSEG, National Grid on natural gas, and also from NYPA,

who works with municipalities. 1 2 So, it is really confusing to sort of navigate all the different incentives. So, I recently 3 read the EEPS restructuring plan, the energy efficiency 4 5 portfolio standard plan. I'm really encouraged to see 6 that there's an effort towards streamlining all of that, 7 and getting all these entities to work together, because it's so confusing. So, if that could be part of the 8 9 state plan, too, that would be great. Again, I'll put my comments in writing. 10 Thank you very much. Thanks for hearing my comments. 11 CHAIRMAN RHODES: Thank you very much. 12 We have no new requests. May I just quickly 13 14 check the room for Laurie Heinitz, Robert Heintz. 15 MS. TOBY: My name should be on the list. CHAIRMAN RHODES: Please come up. 16 17 MS. TOBY: My name is Jill Toby. I'm here on behalf of Food and Water Watch and also as a resident 18 of Long Island. I have to pull from somebody's comments 19 it's got to be sited somewhere here. Thank you very 20 21 much for coming to hear what we have to say about that. I don't know why it has to be sited 22 somewhere and what it is, but here are a couple of 23

1	comments I would like to make. Thank you.
2	This is an ongoing discussion about an
3	addiction and a presumed helpless continuation of energy
4	appetite and mindless greed. Methods of conservation,
5	green architecture, city planning, and health promoting
6	lifestyles, proliferation of predatory, lucrative and
7	radiological sickness and disease treatment are
8	constantly preempted by commercialization and reliance
9	on destructive utilities.
10	The hospital, by the way, as I am sure you
11	know, is the number one employer here on Long Island.
12	These utilities operate to prop up profits to ensnare
13	all the earth systems in costs and concurrent pension
14	investments held hostage, which I think explains a good
15	deal, maybe explains a good deal of the reason why it
16	isn't such a simple task for these to move from here to
17	there.
18	If one looks at the mutual fund log of
19	participants, the big earners are always the same ones.
20	It doesn't matter which mutual fund you look at. So,
21	when these companies are changed or their contribution
22	is minimized, that's going to obviously affect pension
23	fund investments.

.

Г

159

I think there are a lot of people who don't 1 2 make that connection between the dots, and I think it's a huge one and we need to be discussing it in a very, 3 4 very transparent way. So, that's a suggestion. 5 I urge your serious consideration of today's speakers, those who are incensed by complacency and the 6 7 inertia of devastating policies. And the book Chernobyl and the film Gasland 2 by Josh Fox elucidates the 8 relationship between energy and human health and safety 9 and welfare. 10 Some of these thankfully have been mentioned 11 12 today. Please note my objection to the following 13 points: Hazardous fracking waste emissions, air pollution emissions, fouling environmental habitats with 14 radioactive storage facility leaks. 15 16 Two, preservation of tree canopy. I must say that I'm an architect and my undergraduate work in 17 18 the field was in landscape architecture. So, preservation of tree canopy by reducing, rather than 19 20 increasing, building, health and life competition and residential technologies. 21 22 I think that's a really huge issue that is starting to go to the courts. And we need to, as a 23

general public, we need to think about it and have 1 plenty of time to think about what it means and what we 2 can do about it and where our values lie. 3 The use of excessive road salt and the 4 5 publicized contemplation of substituting brine for this, which was on Main Street Radio. I heard it twice 6 already. How will we be protected from the disposal of 7 fracking waste and other unregulated products and their 8 subsequent contamination of the water table? 9 Four, allowing vehicles that have gas 10 efficiency rates less than 32 to 70 miles per gallon is 11 due to destruction and inertia. My own passenger 12 vehicle operated at 32 miles per gallon back in 1979. 13 I studied solar energy construction and 14 passive heating as early as 1974 from government 15 informational brochures. The kind that were sent out 16 for free or used to. 17 18 I won't age myself. I was very young when I studied these things. And after receiving my 19 20 professional education in landscape architecture and preservation, and current construction, it has become 21 22 readily apparent. Last point is, five, the downward spiral 23

1 exemplified by proliferating HVAC systems, windowless 2 rooms and electrically dependent building . 3 configurations, rather than employing age old proven 4 high quality, in conjunction with improved 5 understanding. I'm talking about building technique and 6 building siting.

7 The present design parameters incorporated 8 in our building code are predicated on our disproven fantasies and industry propaganda of clean affordable 9 energy production. Self determination might include 10 11 incentives and commendations and recognition for independent, off grid solutions publicized as news. 12 These exemplary achievements might occupy television 13 14 time to the same extent the down power lines and gas shortages do. The need for obfuscation and 15 misrepresentation might thereby be greatly reduced. 16 And I thank you for your patience and for, 17 again, allowing everyone to meet here and hear each 18 19 other. I think it's been good for myself. I can say 20 that. I hope it's been good for everybody else. 21 Thank you very much. Thank you for your 22 CHAIRMAN RHODES: 23 patience.

1	May I just check now for the six folks:
2	Laurie Heinitz, Robert Heintz, Judy Beck, Phillip Healy,
3	Tim Reilly, Corey Tyler.
4	(There was no response.)
5	Then if there are no further speakers,
6	thanks from all of us to Farmingdale State College, and
7	thanks from us on the State Energy Planning Board to all
8	the commentators. You made excellent points, you made
9	them passionately, and you have given us much to think
10	about.
11	We have undertaken the development of the
12	Draft SEP with a great deal of seriousness. We will
13	continue to do that as we move to the Final State Energy
14	Plan, and it's extremely important that we hear and
15	understand comments and questions like yours.
16	Final commercial. Please remember that
17	written comments can be submitted to our website until
18	April 30th, www.energyplan.ny.gov. The session is
19	adjourned. Thank you very much.
20	(Meeting concluded at 4:58 p.m.)
21	
22	
23	

Г

[	
1	CERTIFICATION
2	
3	
4	I, Jeanne O'Connell, Registered Professional
5	Reporter and Notary Public in and for the State of New
6	York, do hereby certify that the foregoing to be a true
7	and accurate transcription of the stenographic notes as
8	taken by me of the aforesaid proceedings.
9	
10	
11	
12	
13	
14	
15	Date Jeanne O'Connell
16	
17	
18	
19	
20	
21	
22	
23	

)

 $\langle$ 

\$	17 [1] - 88:18 170 [1] - 56:14	77:9, 79:10, 110:22, 130:6, 131:3,	350.org [1] - 19:7	<b>72</b> [2] - 35:7, 71:23 <b>75</b> [2] - 89:8, 99:22
	<b>1783</b> [1] - 10:10	131:12, 132:7	4	77 [1] - 99:18
<b>\$100</b> [2] - 105:14,		<b>2014's</b> [1] - 114:10	4	11[1]-33.10
105:19	<b>18</b> [2] - 94:7, 133:13	<b>2014-15</b> [1] - 80:20		8
\$15[1] - 107:21	<b>1960s</b> [2] - 96:6,	<b>2014s</b> [1] - 93:7	4,400 [1] - 16:12	O
\$17 [1] - 132:6	147:10	1	40 [7] - 10:17, 15:17,	
\$179[1] - 132:13	<b>1970</b> [1] - 90:11	<b>2015</b> [7] - 11:21,	32:23, 81:13, 116:9,	8 [2] - 69:4, 120:10
<b>\$2,000</b> [2] - 69:22,	<b>1970s</b> [2] - 93:6, 150:7	48:21, 63:20, 74:10,	121:6, 143:19	80 [21] - 22:15, 42:14,
70:1	<b>1974</b> [1] - 161:15	113:4, 113:16,	40-year [1] - 27:23	63:19, 68:13, 73:13,
\$2,074 [1] - 132:20	<b>1975</b> [2] - 16:5, 135:9	139:20	400 [2] - 45:4, 115:7	76:2, 77:13, 87:10,
\$25[1] - 108:2	<b>1979</b> [2] - 111:7,	2018 [1] - 64:7	400,000 [1] - 60:13	88:10, 89:3, 89:12,
\$325[1] - 133:23	161:13	<b>2020</b> [2] - 48:20,	<b>42</b> [1] - 99:21	90:1, 94:16, 94:19,
	<b>1980</b> [2] - 135:7,	139:10	43 [1] - 34:3	94:20, 94:21, 94:23,
\$435 [1] - 132:13	143:18	2021 [1] - 64:8	44 [4] - 34:3, 35:6,	139:3, 145:22
\$8,000 [1] - 132:22	<b>1982</b> [1] - 91:10	2025 [3] - 74:9,	37:3, 71:22	800 [1] - 135:17
<b>\$90</b> [1] - <b>13</b> 4:14	<b>1990</b> [1] - 153:22	100:10, 140:2	<b>48</b> [1] - 103:13	85,000 [1] - 42:14
	<b>1991</b> [1] - <b>4</b> 3:23	2030 [6] - 18:20,		86 [1] - 152:20
•	<b>1998</b> [1] - 110:10	24:20, 139:12,	<b>49</b> [2] - 105:8, 143:1	00[1]-102.20
	<b>1:09</b> [1] - 1:7	143:14, 152:18,	<b>4:58</b> [2] - 1:7, 163:20	0
<b>'70s</b> [1] - 58:19	1st [2] - 16:7, 16:11	156:15		9
703[i] - 30.13		2050 [11] - 64:2, 68:13,	5	
<u>^</u>	2	73:13, 73:16, 76:3,		9 [3] - 88:21, 120:10,
0		77:14, 87:11, 93:8,	5 [1] - 142:12	122:10
		139:3, 139:5, 154:6	<b>5.6</b> [1] - 132:19	9.34 [1] - 86:20
<b>0.7</b> [1] - 143:14	2 [3] - 88:2, 88:3,	20s [1] - 147:18	5.8 [1] - 100:16	9/11 [1] - 153:9
	160:8	20th [1] - 16:7		<b>911</b> [2] - 103:15,
1	<b>2,000</b> [2] - 12:21,	22 [1] - 38:6	50 [7] - 32:22, 33:4,	103:20
	69:22	23 [1] - 43:23	41:20, 43:14, 43:15,	
	<b>2.2</b> [1] - 100:17	23rd [1] - 15:13	74:8, 139:23	<b>96</b> [2] - 94:15, 103:13
<b>1</b> [3] - 14:11, 132:7,	<b>2.5</b> [1] - 11:22	24 [1] - 103:16	500 [4] - 16:10, 36:14,	<b>9A</b> [1] - 68:16
144:7	2.6 [1] - 15:13	<b>240</b> [2] - 36:20, 44:7	45:4, 69:15	-
<b>1,000</b> [1] - 90:12	2.7 [1] - 16:2	<b>25</b> [3] - 15:19, 16:8,	<b>518</b> [1] - 1:21	A
1,271 [1] - 44:5	<b>20</b> [10] - 15:21, 22:7,	37:3	52 [1] - 8:13	
1-866-961-3208 [2] -	36:17, 64:7, 71:12,	<b>25,541</b> [1] - 131:13	<b>520</b> [1] - 44:6	A6863 [1] - 125:16
8:5, 8:9	105:15, 116:9,		<b>56</b> [2] - 144:15, 145:15	abandon [1] - 140:14
1.1 [1] - 37:20	142:10, 152:21,	<b>25,738</b> [1] - 131:11	<b>571</b> [1] - 44:5	ability [8] - 24:5, 24:8,
10 [8] - 10:19, 32:21,	154:21	<b>27</b> [2] - 16:2, 99:17	58,000 [1] - 24:14	24:11, 25:1, 58:2,
33:4, 87:20, 92:1,	20-year [1] - 37:21	271-7904 [1] - 1:21	<b>59</b> [1] - 143:17	103:14, 105:2,
92:4, 100:11, 116:14	200 [2] - 26:16, 45:4	<b>29</b> [1] - 3:11		119:17
10-year [1] - 36:20	200,000 [2] - 24:16,		6	able [5] - 54:6, 55:13,
<b>10.6</b> [1] - 100:11	138:14	3		76:6, 84:3, 116:1
100 [3] - 139:8,	2000 [1] - 109:6			
139:10, 154:5		3 [3] - 1:6, 56:23, 57:3	<b>6</b> [3] - 3:9, 13:4,	absence [1] - 102:11
	<b>2003</b> [1] - 129:22 <b>2004</b> [1] - 131:12	<b>3,681</b> [1] - 44:4	120:10	absolute [1] - 24:22
100,000 [1] - 37:19		<b>3-ton</b> [1] - 36:19	<b>6,000</b> [1] - 143:5	abundant [2] - 65:2,
<b>10:44</b> [1] - 15:20	2008 [3] - 16:5, 88:15,	<b>3.0</b> [3] - 15:18, 16:6,	<b>6,562</b> [1] - 44:8	130:17
11 [3] - 123:23,	88:20		<b>60</b> [1] - 115:6	academic [1] - 154:4
125:11, 133:5	<b>2009</b> [2] - 11:20, 63:20		60,000 [1] - 36:17	accelerate [1] - 155:12
<b>111</b> [1] - 52:21	<b>2010</b> [4] - 33:21,	<b>3.2</b> [2] - 15:16, 15:20	<b>600</b> [5] - 16:23, 45:4,	accelerated [1] -
<b>12</b> [2] - 17:12, 103:12	66:10, 107:22, 109:2	30 [4] - 4:15, 56:23,	60:17, 134:13, 143:6	102:1
<b>12.8</b> [1] - 108:1	<b>2011</b> [6] - 16:13, 64:7,	59:1, 105:16	631-271-8025 [2] -	accelerating [1] -
<b>122</b> [2] - 143:2, 143:11	88:20, 99:17,	300 [1] - 45:4	10:11, 10:12	152:13
<b>13,000</b> [1] - 75:3	111:18, 147:15	30th [1] - 163:18	6:11 [1] - 15:16	accept [2] - 3:3, 12:3
<b>130</b> [2] - 65:6, 89:8	<b>2012</b> [8] - 20:6, 25:19,	<b>31</b> [2] - 16:1, 50:21		acceptable [1] - 87:23
<b>14</b> [1] - 64:6	73:8, 88:15, 100:15,	<b>32</b> [2] - 161:11, 161:13	7	accepted [1] - 4:15
<b>14.58</b> [1] - 86:18	131:14, 143:14,	<b>33</b> [1] - 22:5	<b></b>	access [4] - 12:12,
<b>15</b> [8] - 4:5, 11:21,	153:22	34 [1] - 99:20		85:5, 133:15, 134:7
	<b>2014</b> [19] - 1:3, 1:6,	<b>35</b> [4] - 61:23, 69:11,	7 [2] - 3:5, 131:12	Access [1] - 2:22
33:5, 82:22, 114:4,	3:4, 3:5, 3:12, 4:15,	69:14, 70:7	<b>70</b> [3] - 75:5, 91:16,	accessible (1) -
		69:14, 70:7 <b>35,000</b> [1] - 62:4	70 [3] - 75:5, 91:16, 161:11	accessible [1] - 125:12

.

140:19	
140.10	ŧ
accommodate [3] -	â
68:2, 68:10, 134:20	
accomplished [1] -	
49:20	
accordance [1] - 3:8 according [4] - 37:18,	ŝ
71:20, 130:14, 131:4	10
accordingly [1] - 4:1	
account [5] - 49:7,	
50:22, 106:8, 148:2,	
153:16	ł
accountable [1] -	
149:2	
accounts [1] - 49:23	1
accurate [1] - 164:7	ē
accurately [1] - 6:1	
achievable [1] - 43:7 achieve [11] - 3:17,	
	1
12:8, 34:17, 36:13, 37:16, 48:8, 77:12,	
101:5, 102:9, 116:8,	
132:16	
achieved [2] - 101:1,	
156:15	
achievements [1] -	
162:13	4
achieving [1] - 39:2	
acid [1] - 91:1	ł
acidification [1] -	
93:22	ł
acknowledged [2] -	
85:1, 141:13	4
acre [1] - 145:16	
acronym [1] - 129:20	i
act [5] - 21:16, 73:10,	i
74:19, 152:6, 155:19	
acting [2] - 79:14, 80:23	
action [10] - 4:2,	
49:12, 51:23, 66:11,	
70:6, 76:3, 126:12,	
141:17, 151:21,	
152:8	;
actions [2] - 85:9	4
actions [2] - 85:9 active [3] - 11:3,	
actions [2] - 85:9	
actions [2] - 85:9 active [3] - 11:3, 69:14, 103:17 actively [1] - 127:12	i
actions [2] - 85:9 active [3] - 11:3, 69:14, 103:17 actively [1] - 127:12 activities [1] - 98:4	i
actions [2] - 85:9 active [3] - 11:3, 69:14, 103:17 actively [1] - 127:12 activities [1] - 98:4 activity [1] - 104:18	
actions [2] - 85:9 active [3] - 11:3, 69:14, 103:17 actively [1] - 127:12 activities [1] - 98:4 activity [1] - 104:18 actual [2] - 124:4,	
actions [2] - 85:9 active [3] - 11:3, 69:14, 103:17 actively [1] - 127:12 activities [1] - 98:4 activity [1] - 104:18 actual [2] - 124:4, 124:17	
actions [2] - 85:9 active [3] - 11:3, 69:14, 103:17 actively [1] - 127:12 activities [1] - 98:4 activity [1] - 104:18 actual [2] - 124:4, 124:17 actuality [1] - 67:17	
actions $[2] - 85:9$ active $[3] - 11:3$ , 69:14, $103:17actively [1] - 127:12activities [1] - 98:4activity [1] - 104:18actual [2] - 124:4,124:17actuality [1] - 67:17adapt [1] - 127:5$	
actions $[2] - 85:9$ active $[3] - 11:3$ , 69:14, $103:17actively (1] - 127:12activities [1] - 98:4activity [1] - 104:18actual [2] - 124:4,124:17actuality [1] - 67:17adapt (1] - 127:5add [1] - 125:10$	
actions $[2] - 85:9$ active $[3] - 11:3$ , 69:14, $103:17actively (1] - 127:12activities (1] - 98:4activity [1] - 104:18actual [2] - 124:4,124:17actuality (1] - 67:17adapt (1] - 127:5add (1] - 125:10added [4] - 7:22,$	
actions $[2] - 85:9$ active $[3] - 11:3$ , 69:14, $103:17actively (1] - 127:12activities (1] - 98:4activity [1] - 104:18actual [2] - 124:4,124:17actuality (1] - 67:17adapt (1] - 127:5add (1] - 125:10added [4] - 7:22,16:23$ , $17:23$ , $78:3$	
actions $[2] - 85:9$ active $[3] - 11:3$ , 69:14, $103:17actively (1] - 127:12activities [1] - 98:4activity [1] - 104:18actual [2] - 124:4,124:17actuality [1] - 67:17adapt (1] - 127:5add (1] - 125:10added [4] - 7:22,16:23$ , $17:23$ , $78:3addiction [3] - 57:16,$	
actions $[2] - 85:9$ active $[3] - 11:3$ , 69:14, $103:17actively (1] - 127:12activities (1] - 98:4activity [1] - 104:18actual [2] - 124:4,124:17actuality (1] - 67:17adapt (1] - 127:5add (1] - 125:10added [4] - 7:22,16:23$ , $17:23$ , $78:3$	

adding [1] - 140:8 addition [8] - 16:21, 27:2, 77:22, 78:6, 85:16, 113:5, 121:4, 151:1 additional [1] - 132:15 additions [1] - 87:12 address [8] - 5:17, 6:13, 34:22, 50:19, 67:4, 121:23, 125:2, 146:5 addressed [6] - 39:23, 53:21, 121:8, 122:2, 123:7, 136:21 addresses [1] - 4:7 addressing [5] - 63:5, 120:3, 121:1, 121:3, 122:1 addressment [1] -55:14 adequate [3] - 55:14, 105:5, 105:13 adjourned [1] - 163:19 administration [4] -23:12, 69:12, 70:3, 70:4 Administration [1] -131:22 adopted [2] - 103:2, 116:2 adoption [3] - 50:6, 72:5, 72:18 Adrienne [4] - 38:12, 42:8, 42:11, 48:1 advance [1] - 4:6 advancement (1) -25:8 advancing [1] - 70:8 advantage [2] - 32:13, 77:21 advantageous [1] -126:18 advice [1] - 157:21 advise [3] - 19:13, 38:17.61:1 advocacy [2] - 55:1, 127:2 advocate [2] - 19:13, 88:3 advocates [1] - 111:8 aerosols [3] - 108:21, 109:10 aerospace [1] - 75:18 affect [1] - 159:22 affection [1] - 11:1 affects [1] - 30:3 afford [1] - 137:10 affordability [10] -3:19, 11:12, 34:20, 34:23, 35:3, 35:11,

50:20, 50:21, 50:23, 130:10 Affordable [1] -129:21 affordable [10] - 3:15, 12:9, 12:21, 13:2, 101:4, 112:22, 130:1, 132:17, 136:13, 162:9 afforded [1] - 6:14 aforesaid [1] - 164:8 afraid [1] - 109:7 afternoon [17] - 2:1, 27:19, 38:14, 47:14, 51:17, 56:19, 61:18, 65:4, 66:18, 70:16, 78:17, 82:14, 97:22, 129:17, 142:9, 145:14, 146:19 afterwards [1] - 156:1 age [3] - 143:19, 161:18, 162:3 agencies [3] - 73:5, 149:5, 157:20 ages [1] - 112:13 aggregation [3] -111:23, 112:20, 113:18 aggressive [5] - 43:6, 44:16, 46:11, 77:10, 139:20 aggressively [2] -40:23, 49:4 aging [2] - 36:18, 143:16 ago [12] - 7:18, 19:2, 43:23, 69:12, 69:14, 75:1, 94:10, 97:10, 139:6, 140:23, 151:15, 156:20 agree [5] - 26:10, 39:7, 82:3, 115:20, 127:2 agreement [1] - 65:8 agreements [2] -113:22, 143:23 agrees [1] - 32:8 agricultural [1] -62:20 aground [1] - 60:18 ahead [3] - 31:2, 93:12, 93:14 aided [1] - 102:14 aiding [1] - 49:16 aims [1] - 100:6 Air [1] - 94:21 air [28] - 8:16, 8:17, 16:23, 17:2, 21:11, 35:6, 35:8, 37:4, 38:2, 45:19, 50:8,

59:8, 71:22, 72:1, 73:21, 80:16, 88:16, 92:22, 138:13, 147:9, 148:1, 149:3, 150:16, 153:7, 153:15, 154:9, 154:16, 160:13 airport [2] - 61:14, 70:20 akin [1] - 83:22 alarm [2] - 55:5, 151:23 Alaska [1] - 93:21 Albany [7] - 9:18, 10:9, 60:12, 78:20, 79:8, 79:13, 80:19 Alicea [3] - 70:15, 72:22, 73:1 ALICEA [1] - 72:23 aligned [1] - 116:20 aligning m - 3:22 alive [1] - 145:22 alley [1] - 87:4 Alliance [1] - 129:21 allocated [1] - 109:19 allotted [1] - 64:5 allow [7] - 22:9, 22:16, 27:8, 27:14, 147:3, 148:17, 149:15 allowed [3] - 6:17, 84:1, 92:9 allowing [6] - 77:3, 79:3, 115:2, 118:21, 161:10, 162:18 almost [5] - 37:20, 42:19, 139:3, 142:12, 145:22 alone [7] - 14:1, 16:8, 24:21, 28:15, 60:7, 129:2, 132:23 alterations [1] - 111:3 alternative [9] - 96:22, 96:23, 97:7, 100:5, 100:9, 100:15, 104:22, 147:21, 154:20 alternatives [2] -80:23, 100:3 aluminum [1] - 135:13 amazing [1] - 58:21 ambitious [2] - 152:8, 155:3 Ambrose [12] - 20:4, 21:7, 21:14, 21:16, 22:21, 90:20, 122:20, 127:14, 133:12, 134:7, 134:11, 150:1 America [5] - 44:4, 44:6, 44:9, 91:19,

92:6 American [4] ~ 60:19, 75:14, 89:6, 92:3 amid [1] - 16:19 amount [6] - 12:10, 78:10, 107:11, 108:21, 109:3, 109:10 amounts [3] - 22:3, 109:19, 152:14 ample [1] - 130:1 Amsterdam [1] -91:14 analysis [1] - 71:12 andrew [1] - 135:3 Andrew [2] - 58:10, 129:15 animals [2] - 17:2, 148:7 anne [1] - 27:18 Anne [3] - 25:12, 58:13, 58:15 announced [1] - 155:6 announcing [1] - 5:9 annual [4] - 55:16, 133:19, 133:22, 143:14 annually [1] - 130:20 answer [3] - 33:6, 137:13, 137:20 answers [2] - 73:16, 136:16 anti [1] - 39:8 anti-fracking [1] -39:8 apocalyptic [1] -152:2 apologize [1] - 55:12 apologizes [1] - 9:16 appalled [1] - 127:13 apparent[1] - 161:22 appear [2] - 88:23, 106:17 appetite [1] - 159:4 applaud [2] - 117:5, 126:13 applauding [1] - 23:11 appliance [1] - 49:3 application [1] - 89:15 applications [1] -136:18 applied [1] - 64:11 appointed [1] - 34:6 appreciate [1] - 33:12 apprentices [1] -143:5 approach [2] - 118:9, 142:17 appropriate [3] - 64:9, 120:4, 149:9

approved [3] - 3:4, 40:8, 82:1 approving [1] - 122:19 April [2] - 4:15, 163:18 aqueducts [1] - 104:5 architect [1] - 160:17 architecture [3] -159:5, 160:18, 161:20 Arctic [1] - 152:3 AREA [2] - 129:20, 132:14 area [8] - 26:4, 26:15, 49:4, 52:13, 79:15, 100:22, 147:8, 147:17 areas [4] - 3:18, 25:3, 79:17, 79:22 arrival [1] - 5:6 arrive [1] - 94:18 arrived [1] - 15:12 Arthur [1] - 130:3 article [6] - 60:4, 60:8, 60:11, 60:13, 109:5, 132:10 Article [1] - 3:9 articles [2] - 61:2, 61.9 aspect [1] - 30:11 aspects [1] - 142:22 Assembly [1] - 130:4 Assemblyman [2] -9:15, 9:19 assemblyman [1] -10:6 assessing [1] - 42:18 asset [1] - 12:19 assign [2] - 44:12, 44:17 assigned [2] - 43:3, 46:12 assist [2] - 6:6, 50:10 assistance [1] - 112:2 Assistant [2] - 1:15, 2:9 Associate [1] - 38:16 associated [4] -29:17, 37:13, 71:17, 153:14 association [1] - 34:9 association's [1] -118:1 asthma [1] - 122:15 Atherton [3] - 8:11, 9:12, 9:15 ATHERTON [1] - 9:14 Atlanta [1] - 93:21 Atlantic [1] - 43:19 atmosphere [8] - 7:23, 19:10, 62:11,

108:22, 109:1, balance [2] - 29:10, 109:11, 109:17, 132:20 109:20 balanced [1] - 142:17 attack [1] - 106:6 ban [13] - 8:5, 8:7, 9:9, attaining [1] - 22:14 19:14, 20:2, 22:20, attend [1] - 79:4 52:6, 58:7, 58:9, attendance [1] - 5:23 67:5, 68:20, 121:16 attending [1] - 9:17 Bank [8] - 14:11, attention (5) - 36:9, 23:15, 40:11, 85:11, 42:6, 83:8, 103:23, 123:7, 144:7, 128:4 155:12, 155:17 bank [2] - 108:1, audience [3] - 3:1, 128:11 95:20, 141:21 audit [2] - 54:23, 55:3 banks [1] - 108:8 audits [2] - 54:17, banning [2] - 82:4, 151:1 55:17 barely [3] - 74:14, author [1] - 130:5 80:7, 120:17 authority [4] - 5:21, barges [1] - 68:2 21:15, 22:22, 26:10 barn [1] - 137:5 Authority [4] - 2:4, Barnaby [3] - 72:22, 74:22, 111:21, 132:9 AUTHORITY [1] - 1:1 76:21, 76:22 auto [1] - 60:18 barrels [1] - 60:13 Barrett [1] - 144:4 automobiles [1] barrier [3] - 72:5, 56:15 72:17, 86:21 available [5] - 3:6, barriers [1] - 50:5 10:9, 14:3, 85:3, basal [1] - 147:14 119:14 base [5] - 12:21, 14:4, Avenue [1] - 10:11 75:12, 121:9, 144:9 average [10] - 35:2, 36:4, 37:19, 37:21, based [21] - 12:1, 60:12, 62:18, 79:21, 19:23, 62:9, 66:6, 116:9, 143:13, 77:17, 77:18, 85:5, 143:18 85:20, 88:12, 92:16, averaged [1] - 69:22 100:11, 103:21, 105:8, 111:8, aware [4] - 3:2, 55:1, 111:19, 116:11, 64:21, 148:3 awareness [1] -118:10, 120:6, 123:18, 126:14, 117:11 152:10 basement [1] - 136:14 В bases [1] - 83:15 Basin [1] - 102:19 backdoor [1] - 45:14 basis [1] - 62:15 backed [2] - 14:6, baths [1] - 128:15 102:15 Battery [1] - 86:18 background [1] - 4:9 battery [3] - 43:1, backup [2] - 53:15, 46:12, 53:15 104:4 Bavarian [1] - 97:10 backward [1] - 18:9 Bay [1] - 86:22 backyards [1] -Beach [8] - 21:8, 57:7, 153:13 58:9, 76:7, 122:19, bad [2] - 102:8, 151:6 130:3, 133:14, Bailey [2] - 97:21, 149:14 97:23 beach [1] - 91:15 BAILEY [1] - 97:22 Beach's [1] - 146:6 bailing [1] - 108:8 beaches [3] - 76:6, bailout [1] - 108:1 80:4, 80:7 bakken [2] - 60:11, bearing [1] - 60:20 68:3 beautiful [1] - 28:1

became [2] - 26:14, 136:2 Beck [5] - 102:5, 106:21, 106:22, 110:16, 163:2 become [12] - 16:19, 30:14, 31:8, 46:10, 66:2, 75:13, 75:15, 76:17, 82:6, 127:3, 147:3, 161:21 becomes [1] - 14:2 becoming [6] - 21:2, 26:9, 67:17, 67:22, 108:20, 153:7 bedroom [1] - 55:8 BEFORE [1] - 1:11 beg [1] - 129:11 began [1] - 110:10 begin [2] - 63:11, 98:2 beginning [2] - 10:3, 132:7 beginnings [1] - 62:18 begins [1] - 130:6 behalf [7] - 69:10, 73:2, 115:4, 115:17, 130:2, 142:14, 158:18 behind [5] - 32:3, 63:23, 75:19, 79:18, 85:13 Belgium [1] - 44:5 belief [2] - 111:12, 149:20 belies [1] - 150:1 believes [1] - 112:14 Belimore [1] - 38:15 belong [1] - 87:19 beloved [1] - 80:4 below [2] - 35:2, 148:5 bemusement [1] -95:17 bench [1] - 122:2 benchmarks [3] -121:3, 139:4, 139:14 bend [1] - 96:16 benefit [4] - 14:13, 72:10, 78:3, 134:12 benefits [9] - 41:15, 41:16, 47:9, 65:12, 79:19, 83:10, 84:18, 113:22, 138:11 best [6] - 35:3, 35:11, 36:13, 39:9, 48:1, 118:17 bestseller [1] - 59:3 bet [1] - 92:5 Beth [2] - 151:9, 155:23 better [12] - 28:18, 31:16, 45:8, 52:16,

65:3, 71:19, 82:7, 83:8, 112:22, 116:16, 117:17, 122:14 between [13] - 19:8, 29:10, 29:23, 58:21, 64:1, 67:3, 101:7, 116:9, 124:5, 131:3, 153:22, 160:2, 160:9 beyond [1] - 113:16 bi [2] - 17:13, 47:3 bi-product [1] - 17:13 bi-products [1] - 47:3 bidder [1] - 127:16 bidirectional [1] -67:23 big [10] - 9:23, 14:15, 33:3, 67:18, 91:4, 93:10, 98:8, 107:20, 137:10, 159:19 bigger [2] - 150:13 biggest [1] - 86:15 bill [10] - 35:15, 35:16, 35:18, 35:19, 35:22, 36:7, 125:15, 132:11, 132:12 Bill [2] - 66:17, 70:14 Billi [3] - 33:15, 33:18, 38:23 billion [5] - 13:4, 14:11, 104:12, 132:19, 144:7 billionaires (1) - 108:8 billions [1] - 130:19 bills [7] - 35:1, 35:10, 35:12, 36:7, 36:9, 65:14, 69:21 Binghamton [1] -154:21 birds [1] - 27:1 birth [1] - 150:15 bit [7] - 8:22, 9:6, 32:2, 32:3, 48:18, 96:16, 115:9 bite [1] - 46:8 bizarre [2] - 141:1, 141:11 bizarrely [3] - 140:22, 140:23, 141:1 black [3] - 81:12, 81:20, 136:7 blackened [1] -135:14 BLACKMAN [1] -25:13 Blackman [3] - 23:6, 25:11, 25:16 blackout [1] - 129:23 blackouts [2] - 131:8, 136:15

blacksmiths [1] - 142:15	<b>Boyle</b> [2] - 7 78:20
bladder [1] - 147:15	BP [1] - 92:1
••	BP-type [1] -
blame [1] - 108:22 blast [1] - 150:14	
	Bradford [1]
bleed (1) - 127:22	brains [1] - 1
bleeds [1] - 26:5	brands [1] -
blistering [1] - 128:9	break [4] - 5
blizzards [1] - 7:19	86:5, 86:9
block (1) - 56:6	breaks [1] -
Bloomberg's [1] -	breast [2] - 1
66:12	147:16
blowers [1] - 106:4	breathe (1) -
blowing [1] - 77:22	bridge [3] - 4
blue [2] - 109:16,	92:16, 153
144:12	brief [2] - 13
blueprint [2] - 43:6,	156:4
139:8	briefly [2] - 8
Board [7] - 2:5, 3:5,	98:11
4:22, 61:19, 77:3,	brine [2] - 27
79:2, 163:7	Bring [2] - 9
board [14] - 2:7, 4:22,	92:19
5:1, 5:13, 6:14, 6:19,	bring [7] - 32
26:3, 64:14, 78:22,	92:11, 92:
81:9, 82:22, 98:14,	93:4, 120:
142:8, 145:8	bringing [2]
boardwalk [1] - 76:7	99:9
Bob [3] - 135:3,	brings [1] - 1
137:23, 138:2	British [2] -
body [1] - 138:6	88:20
Bohemia [1] - 70:18	BROAD [1]
boiler [2] - 122:9,	Broad [2] - 1
122:13	151:9
boilermaker [1] - 143:5	broad [1] - 5
Boilermakers [1] -	brochures
142:11	Brook [1] - 1 Brookhave
boilermakers [1] -	137:7
142:15	Brooklyn [2
boilers [1] - 41:10	147:10
bold [1] - 124:13	Brooklynit
boldly [1] - 152:7	119:6
boldness [2] - 98:9,	Broome [2]
101:21	154:18
bolster [1] - 11:13	brought [3]
borster [1] - 94:8	96:1, 131:
bond [1] - 103:3	brown [1] - 3
book [2] - 59:3, 160:7	brush [1] - 1
boom [2] - 16:19,	brutal [1] - 1
24:22	BTU [1] - 15
border [1] - 154:8	BTUs [1] - 4
borders (1) - 144:11	bubble [2] - 148:16
bore [1] - 25:19	
bottled [2] - 95:17,	bucks [1] - 1
128:11 bottles /// 95:21	bucolic [1]
bottles [1] - 95:21	budget [2] -
bottom [1] - 22:17	109:18
box [1] - 67:12	budgets [1]
boy [1] - 91:22	build [12] - 2
	32:8, 40:1
L	1

78:19 12 - 92:12 ı) - 26:3 110:6 105:11 5:20, 81:7, 129:11 147:12, - 59:7 45:16, 3:17 32:14 51:22, 7:4, 161:5 92:15, 32:5, 92:8, :13, 93:1, :21 g - 75:22, 110:7 88:14, - 151:10 146:18, 55:20 [1] - 161:16 135:11 en [1] -2] - 19:23, te [1] -- 154:10, - 95:20, :20 26:17 128:8 146:9 50:19 41:13 - 148:14, 107:20 - 25:20 - 80:20, ] - 48:23 20:20, 13, 67:21,

74:12, 78:11, 100:6, 120:11, 124:10, 134:2, 143:6, 148:4 building [27] - 28:13, 28:18, 40:12, 41:8, 41:11, 48:15, 48:19, 49:2, 54:2, 57:14, 59:19, 67:20, 71:17, 81:17, 85:3, 106:11, 116:12, 120:12, 120:18, 125:20, 149:22, 153:17, 160:20, 162:2, 162:5, 162:6, 162:8 Building [1] - 38:21 buildings [9] - 40:10, 49:7, 49:15, 54:1, 81:19, 113:8, 116:6, 116:7, 116:8 builds [1] - 14:19 built [7] - 21:20, 89:7, 94:9, 95:2, 101:11, 114:16, 153:4 bulbs [1] - 105:21 burdensome [1] -112:9 buried [2] - 41:22, 84:16 Burke [3] - 51:16, 56:18, 56:20 BURKE [1] - 56:19 burn [2] - 19:18, 92:17 burned [1] - 135:22 burner[1] - 135:20 burning [8] - 21:23, 57:18, 90:22, 92:17, 122:11, 122:12, 136:1, 138:21 burnt [1] - 26:19 bus [4] - 26:4, 61:4, 61:6, 94:20 buses [5] - 50:12, 61:4, 61:7, 61:8, 151:4 business [7] - 51:9, 56:8, 78:8, 126:1, 128:11, 148:10, 149:8 businesses [5] - 51:1, 67:18, 128:12, 137:3, 154:14 button [1] - 54:7 buy [5] - 17:16, 28:9, 112:17, 135:6, 135:7 buy-in [1] - 112:17 BY [1] - 1:21

С cable [2] - 99:7, 99:10 calculation [1] -107:21 Camden [1] - 91:8 camp[1] - 91:14 campaign [2] - 12:18, 154:13 Campaign [1] - 42:12 Canada [4] - 88:18, 88:20, 88:22, 130:15 Canadians [1] - 145:4 Canary [4] - 76:21, 78:16, 78:18, 79:4 CANARY [1] - 78:17 cancer [5] - 147:12, 147:13, 147:16, 147:18 candidates [1] - 50:13 cannot [8] - 12:8, 13:10, 22:9, 22:10, 22:16, 51:11, 145:5, 146:8 canopy [2] - 160:16, 160:19 capacity [6] - 65:2, 99:12, 101:9, 101:13, 140:15, 154:5 Cape [2] - 89:7, 89:8 capital [1] - 155:13 capitalize [1] - 118:22 captains [1] - 93:10 capture [1] - 48:23 captured [1] - 135:15 capturing [1] - 24:21 car [2] - 56:5, 94:19 carbon [51] - 19:8, 22:1, 22:6, 22:7, 37:20, 41:19, 50:9, 51:23, 53:9, 53:10, 54:3, 54:11, 54:18, 55:4, 55:16, 56:10, 56:14, 57:19, 62:9, 62:10, 62:13, 62:16, 63:19, 71:9, 71:11, 74:1, 74:4, 87:10, 88:11, 88:13, 88:15, 88:23, 89:4, 89:13, 90:1, 90:2, 92:16, 93:3, 94:5, 121:1, 121:5, 121:7, 133:10, 151:3, 152:18, 152:21, 156:19, 156:21 carcinoma [1] -147:14 cards [1] - 84:8

care [3] - 26:8, 46:19, 129:12 careful [1] - 98:16 carefully [2] - 4:20, 133:1 Carl [1] - 7:8 Caroga [1] - 91:13 carpet [1] - 127:17 carport[1] - 10:1 Carre [3] - 56:18, 58:13, 58:14 carrying [1] - 27:3 cars [6] - 28:7, 59:22, 100:12, 106:15, 150:8, 150:13 Carter [3] - 69:12, 70:3, 70:4 case [5] - 40:8, 53:10, 56:3, 81:20, 86:21 cases [1] - 26:5 cash [1] - 28:10 casings [1] - 107:14 catastrophe [2] -20:13, 21:22 catastrophes [1] -20:17 catastrophic [2] -127:7, 140:20 category [1] - 82:20 Catskill [3] - 102:21, 104:4, 151:11 caused [7] - 12:14, 16:18, 62:8, 62:9, 71:10, 153:15, 154:9 causes [3] - 45:10, 138:14, 148:20 causing [4] - 27:4, 54:20, 62:14, 153:5 caveman [1] - 129:7 Cayman [1] - 90:17 CCOM [3] - 91:12, 91:18 cell [2] - 147:14 Center [1] - 57:8 centers [2] - 29:22, 67:13 central [3] - 16:5, 16:8, 103:22 centric [1] - 156:8 century [1] - 87:8 CEO [5] - 2:3, 10:18, 10:20, 46:22, 96:17 certain [1] - 48:6 certainly [14] - 40:1, 40:8, 40:12, 51:20, 53:18, 55:13, 83:16, 84:10, 85:10, 86:2, 97:6, 108:7, 148:22, 149:9 certified [1] - 112:5

				Υ <del>-</del>
certify [1] - 164:6	Charlotte [2] - 142:7,	Clayman [3] - 27:18,	Clinton [3] - 23:6,	Columbia's [1] - 88:20
chain [1] - 91:2	145:13	28:22, 28:23	23:7, 30:15	combat [1] - 78:13
chair [4] - 2:4, 61:23,	cheap [2] - 140:4,	CLAYMAN [1] - 28:23	close [1] - 12:19	combine [1] - 72:2
98:22, 130:4	150:21	clean [41] - 3:15, 17:8,	closed [1] - 45:1	combined [2] -
chairing [1] - 98:4	cheaper [1] - 79:19	17:10, 17:21, 18:7,	closing [1] - 67:5	112:10, 143:13
Chairman [2] -	check [3] - 110:15,	23:3, 28:16, 31:1,	closure [1] - 132:18	combustion [8] -
132:14, 142:8	158:14, 163:1	32:16, 44:22, 60:15,	clouds [1] - 109:22	37:22, 41:18, 54:10,
chairman [1] - 130:2	checkpoints [1] - 64:1	66:22, 66:23, 73:20,	cloudy [1] - 136:14	56:8, 56:9, 71:8,
CHAIRMAN [51] - 2:1,	chem [2] - 109:12,	73:21, 74:12, 77:7,	Club [8] - 25:17,	100:3, 106:3
7:8, 8:10, 9:11,	110:4	80:15, 90:16, 90:17,	47:19, 47:21, 62:1,	coming [11] - 7:4,
10:13, 14:23, 18:16,	chemical [1] ~ 128:9	90:21, 91:3, 92:7,	62:2, 66:5, 73:2,	10:4, 80:10, 84:11,
18:22, 23:5, 25:11,	chemicals [4] - 16:23,	92:9, 99:5, 99:10,	75:1	84:17, 86:11,
27:17, 28:21, 31:4,	17:23, 27:4, 153:12	101:2, 120:7,	CNN [1] - 108:1	125:18, 139:21,
33:14, 38:11, 42:7,	cherish [1] - 11:1	122:16, 123:10,	CO[1] - 38:3	141:20, 158:21
46:15, 47:12, 51:15,	Chernobyl [2] - 94:9,	126:2, 126:3, 126:5,	co [1] - 98:22	comitted [2] - 23:15,
56:17, 58:12, 61:16,	160:7	128:15, 130:1,	co-chair [1] - 98:22	27:12
66:16, 70:14, 72:21,	chief [1] - 9:15	142:19, 148:9,	CO2 [2] - 99:21, 99:23	commend [2] - 23:17,
76:20, 78:15, 81:5,		148:22, 153:10,		134:18
82:10, 86:4, 86:8,	child [2] - 132:21, 145:23	155:15, 162:9	coaching [1] - 7:9	commendations [1] -
90:7, 95:4, 97:18,		Clean [4] - 70:17,	coal [9] - 14:4, 63:12,	162:11
102:4, 106:20,	children [8] - 63:14,	84:22, 84:23, 139:6	92:17, 108:23,	comment [12] - 5:5,
110:13, 114:19,	82:7, 94:5, 94:6,	cleaned [1] - 54:13	122:12, 122:21,	
119:3, 124:23,	96:1, 141:22, 151:6,	cleaner [5] - 46:8,	137:14, 142:21,	6:22, 61:20, 69:6,
129:14, 135:2,	153:10	63:13, 72:11, 72:15,	147:22	94:7, 95:8, 96:5, 97:9, 98:11, 107:6,
137:22, 142:2,	children's [1] - 94:6	147:22	Coalition [1] - 110:23	
145:12, 146:16,	Chinese [1] - 108:22	Cleaner [1] - 98:20	Coalition's [1] -	119:13, 157:17
151:8, 155:22,	choice [2] - 124:6,	cleaning [1] - 87:3	110:20	commentary [2] -
158:12, 158:16,	129:10	-	coast [4] - 24:21, 32:9,	43:13, 119:12
162:22	choices [7] - 122:1,	cleanly [1] - 65:12	60:14, 133:14	commentators [1] -
challenge [1] - 94:1	124:1, 124:2, 124:4,	cleanup [1] - 30:6	coastal [1] - 25:3	163:8
challenges [2] -	124:14, 124:22,	cleanups [1] - 60:3	coastlines [1] - 80:6	commenting [1] -
98:10, 133:12	138:6	clear [10] - 29:9,	coat [1] - 81:11	42:18
<b>Champlain</b> [2] - 99:7,	choose [1] - 105:3	30:19, 32:12, 43:5,	coated [1] - 81:20	comments [28] - 2:18,
144:20	choosing [1] - 124:5	62:6, 73:9, 109:15,	coating [2] - 81:13,	3:3, 4:12, 4:14, 4:16,
Champlain-Hudson	Chris [1] - 90:19	139:14, 141:12,	81:20	4:18, 4:20, 4:23,
-	Christie [1] - 90:19	141:13	Cod [1] - 89:9	5:17, 6:1, 6:10, 7:1,
[1] - 99:7	chronic [1] - 26:5	clearer [1] - 126:16	code [1] - 162:8	18:13, 42:20, 78:22,
chance [4] - 6:13,	circulated [1] - 135:15	clearly [9] - 5:16, 5:19,	codes [6] - 48:15,	81:3, 115:2, 117:7,
6:23, 128:1, 155:1	circumstances [1] -	14:12, 21:20, 53:11,	48:19, 49:2, 49:8,	117:8, 127:9,
change [32] - 19:11,	53:7	68:16, 125:12,	81:17	134:23, 156:18,
22:9, 22:11, 23:2,	<b>citizen</b> [3] - 25:16,	141:4, 151:20	cold [1] - 133:21	158:10, 158:11,
30:3, 45:18, 45:22,	31:6, 31:16	Climate [1] - 152:20	colder [1] - 93:20	158:19, 159:1,
46:6, 61:3, 62:8,	citizens [7] - 3:1, 30:4,	climate [48] - 7:23,	collaborative [1] -	163:15, 163:17
63:5, 72:19, 73:9,	95:20, 126:23,	19:10, 20:8, 20:13,	44:19	commercial [6] -
73:14, 76:3, 78:13,	129:3, 129:13, 149:6	20:16, 21:12, 21:22,	collar [3] - 113:22,	40:10, 40:13, 53:20,
87:8, 93:9, 93:15, 02:17, 01:4, 110:8	Citizens [4] - 42:12,	22:9, 22:11, 23:2,	144:12, 144:13	90:13, 116:8, 163:16
93:17, 94:4, 119:8, 120:2, 127:1, 127:5	90:10, 90:16, 93:16	29:6, 30:2, 45:17,	colleague [2] - 7:8,	commercialization [1]
120:3, 127:1, 127:5,	City [11] - 15:12,	45:22, 46:6, 57:20,	34:21	- 159:8
141:5, 141:7,	44:19, 81:18,	62:5, 62:8, 62:13,	colleagues [1] - 155:4	Commission [7] -
141:10, 146:9, 151:16, 151:10	102:14, 102:15,	62:18, 63:2, 63:5,	collect [1] - 137:13	1:14, 2:9, 94:15,
151:16, 151:19, 152:12	102:22, 104:1,	63:8, 64:22, 66:11,	collectively [1] - 44:8	102:19, 117:23,
152:12 Channe // 152:20	104:10, 104:13,	73:9, 73:14, 74:16,	collectors [1] - 70:5	143:22, 145:8
Change [1] - 152:20	104:17, 134:9	75:7, 76:3, 76:18,	College [6] - 2:14,	Commission's [1] -
changed [4] - 7:23,	city [4] - 88:14,	78:13, 87:8, 93:9,	10:2, 51:19, 52:3,	133:8
42:20, 62:18, 159:21	102:16, 153:10,	97:16, 119:8, 120:3,	60:10, 163:6	Commissioner [2] -
changes [2] - 50:5,	159:5	124:17, 126:19,	<b>Collver</b> [2] - 129:16,	1:15, 2:10
101.00	Citrica III 66.42	127:1, 127:5, 141:5,	135:3	<b>commit</b> [5] - 65:22,
101:22	City's [1] - 66:12			
chapter [1] - 88:2	clarifications [1] -	141:7, 141:10,	COLLVER (1) - 135-4	74:7, 77:18, 140:13,
chapter [1] - 88:2 Chapters [1] - 38:21		146:9, 151:16,	COLLVER [1] - 135:4	152:18
chapter [1] - 88:2	clarifications [1] -		COLLVER [1] - 135:4 color [1] - 105:6 Columbia [1] - 88:14	

48:22, 73:11, 74:17, 75:4, 76:12, 150:4 commitments [4] -31:17, 49:6, 49:13, 154:2 commits [3] - 14:11, 78:2, 139:2 committed [3] - 30:8, 98:15, 154:19 Committee [1] - 130:4 committee [3] - 9:21, 47:20, 125:15 committing [1] -139:23 commonly [1] -109:12 commonplace [1] -66:2 communication [1] -103:16 communications [1] -103:14 communities [21] -20:7, 21:10, 27:15, 29:21, 67:14, 68:10, 76:5, 76:11, 111:10, 111:14, 112:3, 112:7, 112:15, 113:1, 113:10, 113:13, 113:20, 114:7, 114:15, 120:13, 155:10 Communities [3] -84:23, 85:1, 110:20 community [14] -11:2, 21:18, 72:8, 87:3, 93:13, 96:2, 111:8, 112:19, 113:22, 116:17, 116:19, 126:4, 126:14, 153:5 companies [11] - 28:8, 47:9, 107:7, 107:9, 115:7, 116:21, 125:17, 126:17, 126:18, 149:1, 159:21 company [2] - 26:8, 26:13 company's [1] - 129:4 compare [2] - 59:18, 107:23 compared [6] - 35:6, 35.7, 64:7, 71:6, 71:23, 151:19 competition [2] -101:19, 160:20 competitive [2] -13:19, 25:2 compile [1] - 73:6

complacency [1] -160:6 complain [1] - 96:21 completed [1] - 98:17 completely [6] -33:20, 72:4, 122:6, 126:20, 128:6, 140:7 complex [1] - 136:17 comply [1] - 64:9 component [1] - 66:23 components [1] -47:17 comprehensive [2] -29:4, 121:22 compressor [13] -20:21, 21:4, 120:16, 127:23, 135:16, 135:17, 135:21, 135:23, 136:4 149:23, 153:1, 153:4. 153:15 compressors [1] -17:3 comprises [1] - 115:6 compromised [1] -104:5 computer [1] - 135:7 Con [2] - 131:14, 131:20 concept [1] - 111:23 Concerned [3] -90:10, 90:16, 93:16 concerned [1] - 80:3 concerning [4] -12:20, 87:13, 88:1, 100:2 concerns [2] - 46:21, 153:6 concise [1] - 32:12 concluded [1] -163:20 conclusion [1] - 151:1 conclusions [1] -156:16 concurrent [1] -159:13 conditioners [1] -37:4 conditioning [2] -35:9, 72:1 conducting [1] - 85:16 configurations [1] -162:3 confusing [2] - 158:2, 158:8 confusion [1] - 157:18 conjunction [2] -115:21, 162:4 Connecticut [1] -42:14

connecting [1] - 112:4 connection [1] - 160:2 conscience [1] -146:2 conscious [1] -112:18 consensus [3] - 29:9, 141:12, 141:14 consequences [2] -35:13, 87:23 Conservation [2] -1:15, 2:11 conservation [2] -90:2, 159:4 consider [7] - 25:7, 69:6, 84:10, 99:9, 102:18, 125:10, 133:2 consideration [6] -11:15, 24:1, 81:4, 99:15, 102:12, 160:5 considered [6] - 4:20, 4:21, 80:6, 99:3, 143:8, 151:17 considering [3] -69:17, 71:13, 127:14 consists [1] - 4:4 conspiracy [1] - 110:5 constant [3] - 26:18, 27:3, 41:12 constantly [1] - 159:8 constituency [1] -111:19 constitution [1] -102:12 constrained [2] -24:10, 25:3 constraints [3] -12:14, 131:20, 134:5 construct [2] - 14:14, 14:18 constructed [1] -143:18 construction [5] -85:22, 134:13, 152:23, 161:14, 161:21 consult [1] - 102:10 consultant [2] - 38:17, 82:16 consumer [2] - 19:23, 89:14 consumers [2] - 30:4, 116:22 consumes [1] -105:15 consumption (7) -11:21, 11:22, 35:6, 71:21, 99:19, 99:22, 125:22

contain [1] - 42:22 contaminate [4] -8:17, 103:1, 104:3, 154:16 contaminated [2] -17:22, 45:18 contamination [2] -104:1, 161:9 contemplation [1] -161:5 continuation [1] -159:3 continue [13] - 19:14, 50:3, 68:17, 87:5, 95:14, 96:3, 113:4, 113:11, 120:13, 127:23, 128:20, 134:1, 163:13 Continued [1] - 18:7 continued [3] -113:14, 128:17, 155:21 continues [2] - 69:15, 143:3 continuos [1] - 66:1 continuously [1] -69:19 contractor [1] -111:20 contractors [3] -85:15, 112:5, 115:6 contradiction [1] -67:2 contrary [1] - 21:19 contribute [1] -152:20 contributed [1] -132:19 contribution [1] -159:21 contributor [1] - 50:2 control [3] - 3:21, 64:14, 105:20 controlled [1] - 67:18 controversial [1] -80:2 conventional [4] -35:8, 36:17, 37:4, 85:17 conversation [1] -130:7 conversions [1] -122:9 converted [1] - 136:11 convince [1] - 109:23 convinced [3] - 27:7, 96:14, 123:16 COO [1] - 70:17 cook [1] - 92:22 cool [2] - 37:16, 42:5

cooled [1] - 141:9 cooling [10] - 40:14, 41:10, 41:14, 41:21, 71:2, 71:6, 72:11, 85:23, 106:10, 141:8 coordinator [1] -110:19 copper[1] - 103:21 coral [1] - 91:2 Cordara's [1] - 96:4 Cordaro [3] - 9:13, 10:14, 10:16 CORDARO [1] - 10:16 Corey [2] - 142:5, 163:3 Cornell [1] - 16:17 corporation [1] -90:18 corporations [2] -137:11, 149:7 corresponding [1] -71:21 cost [35] - 14:8, 24:6, 25:2, 33:9, 33:10, 35:21, 37:11, 39:22, 40:15, 40:17, 41:16, 41:20, 42:4, 48:23, 50:17, 51:1, 51:3, 51:4, 51:5, 51:10, 51:11, 51:12, 71:12, 71:13, 85:12, 99:11, 103:4, 106:14, 107:21, 116:1, 136:23, 139:8, 150:18 costly [1] - 25:4 costs [13] - 13:15, 13:18, 14:13, 34:2, 36:22, 50:8, 67:8, 71:16, 73:22, 82:2, 104:1, 121:18, 159:13 Council [2] - 38:21, 98:4 count [1] - 4:23 counties [1] - 111:20 countries [2] - 144:10, 154:22 country [18] - 8:16, 9:3, 12:8, 13:18, 13:20, 47:7, 66:3, 78:12, 80:13, 83:14, 95:1, 96:8, 96:9, 104:15, 104:19, 108:9, 141:2, 155:2 country's [1] - 13:13 County [6] - 26:3. 142:11, 147:11, 153:3, 154:10, 154:19

county's [1] - 17:4	culture [1] - 21:18	dead [2] - 26:21,	definition [1] - 126:3	deserves [3] - 64:16,
couple [9] - 51:4,	Cuomo [28] - 8:5, 8:7,	153:18	definitions [2] - 41:5,	83:8, 88:23
62:22, 95:7, 104:21,	9:9, 18:6, 18:19,	deadline [1] - 6:12	84:1	deserving [1] - 83:18
116:3, 117:7,	20:2, 20:12, 20:14,	deadly [2] - 92:12,	degrees [1] - 135:17	design [3] - 66:22,
151:15, 156:7,	21:14, 22:9, 22:10,	93:20	Delaware [3] - 102:19,	71:3, 162:7
158:23	22:13, 22:20, 23:15,	deal [6] - 28:8, 82:2,	104:3, 104:6	designated [2] -
coupled [3] - 35:8,	57:2, 63:4, 73:9,	86:12, 159:15,	delete [1] - 83:2	83:21, 111:18
41:8, 48:22	74:16, 74:19, 74:20,	163:12	delighted [1] - 23:10	designed [3] - 31:7,
course [8] - 6:13,	75:21, 76:10, 120:2,	dear [1] - 146:1	deliver [5] - 24:5,	68:17, 136:5
30:18, 93:15, 93:17,	127:13, 145:1,	death [4] - 43:20,	24:8, 25:4, 128:5,	designers [1] - 38:18
94:4, 94:22, 96:13,	146:13, 155:5,	53:1, 141:18, 141:19	134:8	designs [1] - 137:1
157:1	155:17	deaths [2] - 71:10,	delivered [2] - 26:13,	desirable [1] - 102:9
courses [1] - 143:2	Cuomo's [2] - 20:18,	138:14	75:3	desperate [1] - 17:16
court [3] - 5:12, 6:2,	146:3	debatable [1] - 11:15	delivering [1] - 25:2	desperately [1] -
6:6	curb [1] - 46:5	debate [2] - 108:16,	delivery [2] - 68:22,	134:17
courteous [1] - 5:23	current [10] - 20:18,	149:23	126:8	despite [4] - 11:18,
courtesy [3] - 2:23,	53:19, 77:12, 89:22,	debt [2] - 13:4, 132:19	demand [17] - 3:23,	86:20, 94:13, 154:3
95:7, 145:19	100:20, 103:21,	decade [3] - 24:17,	11:17, 20:23, 36:22,	destroy [3] - 9:8,
courts [1] - 160:23	114:8, 114:18,	87:7, 100:19	37:1, 37:2, 37:9,	120:13, 121:17
cover [3] - 33:16,	128:9, 161:21	decades [5] - 11:17,	37:11, 41:18, 50:16,	destruction [4] - 94:3,
54:21, 94:13	curve [1] - 2:16	14:3, 42:19, 97:1,	68:23, 89:22,	151:17, 151:18,
covered [1] - 26:22	custody [1] - 136:22	140:23	101:14, 125:16,	161:12
covers [1] - 142:12	customer [4] - 35:1,	decide [1] - 4:18	131:6, 131:11, 132:5	destructive [5] -
cow [1] - 26:21	68:23, 117:11, 129:2	decision [1] - 138:17	demands [1] - 135:21	120:8, 121:8,
cozy [1] - 146:1	customers [5] - 3:21,	decisions [1] - 140:22	democracy [2] -	122:11, 123:13,
CPB [1] - 144:2	39:6, 104:14,	deck [1] - 5:10	111:11, 129:12	159:9'
cracks [2] - 148:13,	134:10, 157:21	declared [1] - 151:16	demonstrate [1] -	detail [1] - 66:13
148:17	cut [2] - 86:23, 152:1	decommissioned [2] -	103:7	detailed [1] - 4:8
create [13] - 23:19,	cynical [1] - 123:16	94:10, 94:17	demonstrated [1] -	details [1] - 126:14
24:12, 30:10, 41:1,		decommissioning [1]	50:15	detection [1] - 55:17
94:4, 101:20,	D	- 140:13	demonstrates [1] -	detectors [1] - 71:9
112:21, 113:21,		decorum [1] - 2:18	154:19	deter [1] - 87:21
114:9, 115:10,				
	damage [9] - 19:16,	decrease [3] - 37:1,	demonstration [1] -	determination [3] -
134:13, 154:5,	damage [9] - 19:16, 19:18, 27:5, 87:14,	37:14, 39:6	155:9	88:5, 88:8, 162:10
134:13, 154:5, 154:15	19:18, 27:5, 87:14,	37:14, 39:6 decreased [2] - 34:2,	155:9 denial [1] - 57:17	88:5, 88:8, 162:10 determines [1] - 37:12
134:13, 154:5, 154:15 created [5] - 30:21,	19:18, 27:5, 87:14, 103:4, 147:4,	37:14, 39:6 decreased [2] - 34:2, 35:21	155:9 denial (1) - 57:17 deniers (1) - 151:19	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8,
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15,	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7,	155:9 denial (1) - 57:17 deniers (1] - 151:19 Denmark (2) - 43:23,	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7,
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15, 149:6, 149:15	19:18, 27:5, 87:14, 103:4, 147:4,	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11	155:9 denial (1) - 57:17 deniers (1] - 151:19 Denmark (2) - 43:23, 44:5	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15, 149:6, 149:15 creates [1] - 148:14	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11 decreasing [1] - 39:5	155:9 denial (1) - 57:17 deniers (1) - 151:19 Denmark (2) - 43:23, 44:5 dense (1) - 97:12	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6,
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15, 149:6, 149:15 creates [1] - 148:14 creating [2] - 78:4,	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11 decreasing [1] - 39:5 dedication [1] - 150:1	155:9 denial (1) - 57:17 deniers (1) - 151:19 Denmark (2) - 43:23, 44:5 dense (1) - 97:12 densely (1) - 25:3	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15, 149:6, 149:15 creates [1] - 148:14 creating [2] - 78:4, 129:8	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2,	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11 decreasing [1] - 39:5 dedication [1] - 150:1 deemed [1] - 87:23	155:9 denial (1) - 57:17 deniers (1) - 151:19 Denmark (2) - 43:23, 44:5 dense (1) - 97:12 densely (1) - 25:3 depart (1) - 102:6	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15, 149:6, 149:15 creates [1] - 148:14 creating [2] - 78:4, 129:8 creation [2] - 144:13,	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11 decreasing [1] - 39:5 dedication [1] - 150:1 deemed [1] - 87:23 Deep [1] - 23:8	155:9 denial (1) - 57:17 deniers (1) - 151:19 Denmark (2) - 43:23, 44:5 dense (1) - 97:12 densely (1) - 25:3 depart (1) - 102:6 Department (6) - 1:15,	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7 developed [1] - 30:17
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15, 149:6, 149:15 creates [1] - 148:14 creating [2] - 78:4, 129:8 creation [2] - 144:13, 155:12	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3,	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11 decreasing [1] - 39:5 dedication [1] - 150:1 deemed [1] - 87:23 Deep [1] - 23:8 deep [6] - 11:1, 16:12,	155:9 denial (1) - 57:17 deniers (1) - 151:19 Denmark (2) - 43:23, 44:5 dense (1) - 97:12 densely (1) - 25:3 depart (1) - 102:6 Department (6) - 1:15, 2:10, 24:19, 42:2,	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7 developed [1] - 30:17 developing [6] - 26:5,
134:13, 154:5, 154:15 created [5] - 30:21, 47:15, 138:15, 149:6, 149:15 creates [1] - 148:14 creating [2] - 78:4, 129:8 creation [2] - 144:13, 155:12 credible [1] - 141:4	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8,	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11 decreasing [1] - 39:5 dedication [1] - 150:1 deemed [1] - 87:23 Deep [1] - 23:8 deep [6] - 11:1, 16:12, 17:14, 86:13, 131:8,	155:9 denial (1) - 57:17 deniers (1) - 151:19 Denmark (2) - 43:23, 44:5 dense (1) - 97:12 densely (1) - 25:3 depart (1) - 102:6 Department (6) - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7 developed [1] - 30:17 developing [6] - 26:5, 29:3, 31:22, 66:1,
$134:13, 154:5, \\154:15$ created [5] - 30:21, 47:15, 138:15, 149:6, 149:15 creates [1] - 148:14 creating [2] - 78:4, 129:8 creation [2] - 144:13, 155:12 credible [1] - 141:4 credit [1] - 40:6	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8, 155:21	37:14, 39:6 decreased [2] - 34:2, 35:21 decreases [2] - 36:7, 37:11 decreasing [1] - 39:5 dedication (1] - 150:1 deemed [1] - 87:23 Deep [1] - 23:8 deep [6] - 11:1, 16:12, 17:14, 86:13, 131:8, 149:7	155:9 denial (1) - 57:17 deniers (1) - 151:19 Denmark (2) - 43:23, 44:5 dense (1) - 97:12 densely (1) - 25:3 depart (1) - 102:6 Department (6) - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence (4) -	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7 developed [1] - 30:17 developing [6] - 26:5, 29:3, 31:22, 66:1, 84:14, 154:13
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 144:4$ credit $\{1] - 40:6$ Cricket $[1] - 144:2$	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8, 155:21 dangerously [1] -	$\begin{array}{c} 37:14, 39:6\\ \textbf{decreased}\left[2\right]-34:2,\\ 35:21\\ \textbf{decreases}\left[2\right]-36:7,\\ 37:11\\ \textbf{decreasing}\left[1\right]-39:5\\ \textbf{dedication}\left[1\right]-150:1\\ \textbf{deemed}\left[1\right]-87:23\\ \textbf{Deep}\left[1\right]-23:8\\ \textbf{deep}\left[6\right]-11:1,16:12,\\ 17:14,86:13,131:8,\\ 149:7\\ \textbf{deep-seated}\left[1\right]-11:1\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18,	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7 developed [1] - 30:17 developing [6] - 26:5, 29:3, 31:22, 66:1, 84:14, 154:13 Development [2] -
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8, 155:21 dangerously [1] - 138:16	$\begin{array}{c} 37:14, 39:6\\ \textbf{decreased}\left[2\right]-34:2,\\ 35:21\\ \textbf{decreases}\left[2\right]-36:7,\\ 37:11\\ \textbf{decreasing}\left[1\right]-39:5\\ \textbf{dedication}\left[1\right]-150:1\\ \textbf{deemed}\left[1\right]-87:23\\ \textbf{Deep}\left[1\right]-23:8\\ \textbf{deep}\left[6\right]-11:1,16:12,\\ 17:14,86:13,131:8,\\ 149:7\\ \textbf{deep-seated}\left[1\right]-11:1\\ \textbf{deepen}\left[1\right]-20:15\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7 developed [1] - 30:17 developing [6] - 26:5, 29:3, 31:22, 66:1, 84:14, 154:13 Development [2] - 2:4, 111:21
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 144:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9,	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8, 155:21 dangerously [1] - 138:16 dangers [1] - 16:21	$\begin{array}{c} 37:14, 39:6\\ \textbf{decreased}\left[2\right]-34:2,\\ 35:21\\ \textbf{decreases}\left[2\right]-36:7,\\ 37:11\\ \textbf{decreasing}\left[1\right]-39:5\\ \textbf{dedication}\left[1\right]-150:1\\ \textbf{deemed}\left[1\right]-87:23\\ \textbf{Deep}\left[1\right]-23:8\\ \textbf{deep}\left[6\right]-11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ \textbf{deep-seated}\left[1\right]-11:1\\ \textbf{deepen}\left[1\right]-22:15\\ \textbf{deepening}\left[1\right]-22:18\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18,	88:5, 88:8, 162:10 determines [1] - 37:12 devastating [6] - 15:8, 19:5, 19:11, 20:7, 127:1, 160:7 devastation [4] - 30:6, 46:2, 73:8, 146:8 develop [2] - 4:9, 25:7 developed [1] - 30:17 developing [6] - 26:5, 29:3, 31:22, 66:1, 84:14, 154:13 Development [2] - 2:4, 111:21 development [15] -
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 144:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7,	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8, 155:21 dangerously [1] - 138:16 dangers [1] - 16:21 dare [1] - 137:2	$\begin{array}{c} 37:14, 39:6\\ \textbf{decreased}\left[2\right]-34:2,\\ 35:21\\ \textbf{decreases}\left[2\right]-36:7,\\ 37:11\\ \textbf{decreasing}\left[1\right]-39:5\\ \textbf{dedication}\left[1\right]-150:1\\ \textbf{deemed}\left[1\right]-87:23\\ \textbf{Deep}\left[1\right]-23:8\\ \textbf{deep}\left[6\right]-11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ \textbf{deep-seated}\left[1\right]-11:1\\ \textbf{deepen}\left[1\right]-22:15\\ \textbf{deepeing}\left[1\right]-22:18\\ \textbf{deepiy}\left[2\right]-11:16,\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 144:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8, 155:21 dangerously [1] - 138:16 dangers [1] - 16:21 dare [1] - 137:2 dared [1] - 135:9	$\begin{array}{c} 37:14, 39:6\\ \textbf{decreased}\left[2\right]-34:2,\\ 35:21\\ \textbf{decreases}\left[2\right]-36:7,\\ 37:11\\ \textbf{decreasing}\left[1\right]-39:5\\ \textbf{dedication}\left[1\right]-150:1\\ \textbf{deemed}\left[1\right]-87:23\\ \textbf{Deep}\left[1\right]-23:8\\ \textbf{deep}\left[6\right]-11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ \textbf{deep-seated}\left[1\right]-11:1\\ \textbf{deepen}\left[1\right]-20:15\\ \textbf{deepeiing}\left[1\right]-22:18\\ \textbf{deepiy}\left[2\right]-11:16,\\ 12:20\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] -	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ ,	19:18, 27:5, 87:14, 103:4, 147:4, 147:19, 149:2, 149:7 damaged [1] - 103:9 damaging [1] - 27:10 danger [2] - 38:2, 103:10 dangerous [5] - 21:3, 22:1, 60:14, 120:8, 155:21 dangerously [1] - 138:16 dangers [1] - 16:21 dare [1] - 137:2 dared [1] - 135:9 dark [1] - 112:13	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication [1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16,	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9,	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ dangerous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ dangerous [1] - 135:21\\ dangerous [1] - 16:21\\ dare [1] - 137:2\\ dared [1] - 135:9\\ dark [1] - 112:13\\ darken [1] - 55:8\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication [1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] -\\ 133:12\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ dangerous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ dangerous [1] - 135:21\\ dangerous [1] - 16:21\\ dare [1] - 137:2\\ dared [1] - 137:2\\ dared [1] - 135:9\\ dark [1] - 112:13\\ darken [1] - 55:8\\ data [2] - 55:20,\ 72:9\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication [1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deepiy [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3 Cronkite $[1] - 93:6$	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ dangerous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ dangerous [1] - 135:21\\ dangerous [1] - 16:21\\ dare [1] - 137:2\\ dared [1] - 137:2\\ dared [1] - 135:9\\ dark [1] - 112:13\\ darken [1] - 55:8\\ data [2] - 55:20,\ 72:9\\ Date [1] - 164:15\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication (1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ deer [1] - 145:17\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16 deposits [1] - 87:16	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ 153:20, 163:11\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3 Cronkite $[1] - 93:6$ crude $[4] - 60:11$ ,	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [1] - 135:21\\ danger ous [1] - 16:21\\ dare [1] - 137:2\\ dared [1] - 137:2\\ dared [1] - 135:9\\ dark [1] - 112:13\\ darken [1] - 55:8\\ data [2] - 55:20,\ 72:9\\ Date [1] - 164:15\\ date [2] - 105:5,\ 105:9\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication (1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ deer [1] - 145:17\\ defective [1] - 105:12\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16 deposits [1] - 87:16 Deputy [2] - 1:13, 2:8	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ 153:20, 163:11\\ \hline DEVELOPMENT [1] -\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3 Cronkite $[1] - 93:6$ crude $[4] - 60:11$ , 60:12, 68:3	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:20,\ 72:9\\ Date [1] - 15:5,\ 105:9\\ DATE [1] - 1:6\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication (1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ deer [1] - 145:17\\ defective [1] - 105:12\\ defects [1] - 150:16\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16 deposits [1] - 87:16 Deputy [2] - 1:13, 2:8 deriving [1] - 139:23	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ 153:20, 163:11\\ \hline DEVELOPMENT [1] -\\ 1:1\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3 Cronkite $[1] - 93:6$ crude $[4] - 60:11$ , 60:12, 68:3 Crump $[1] - 86:10$	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:20,\ 72:9\\ Date [1] - 155:8\\ data [2] - 55:20,\ 72:9\\ Date [1] - 164:15\\ date [2] - 105:5,\ 105:9\\ DATE [1] - 1:6\\ David [3] - 70:15,\\ 155:21\\ danger ous [2] - 21:25,\\ 155:20,\ 72:9\\ danger ous [2] - 21:25,\\ 155:20$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication (1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ deer [1] - 145:17\\ defective [1] - 105:12\\ defects [1] - 150:16\\ Defense [1] - 98:4\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department [6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16 deposits [1] - 87:16 Deputy [2] - 1:13, 2:8 deriving [1] - 139:23 description [1] -	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ 153:20, 163:11\\ \hline DEVELOPMENT [1] -\\ 1:1\\ device [2] - 105:20,\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3 Cronkite $[1] - 93:6$ crude $[4] - 60:11$ , 60:12, 68:3 Crump $[1] - 86:10$ CRUMP $[1] - 86:11$	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [6] - 16:21\\ danger ous [7] - 16:21\\ dare [1] - 137:2\\ dared [1] - 137:2\\ dared [1] - 135:9\\ dark [1] - 135:9\\ dark [1] - 155:8\\ data [2] - 55:20,\ 72:9\\ Date [1] - 164:15\\ date [2] - 105:5,\ 105:9\\ DATE [1] - 1:6\\ David [3] - 70:15,\\ 72:22,\ 72:23\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication [1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ deer [1] - 145:17\\ defective [1] - 105:12\\ defects [1] - 150:16\\ Defense [1] - 98:4\\ define [1] - 14:12\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department[6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16 deposits [1] - 87:16 Deputy [2] - 1:13, 2:8 deriving [1] - 139:23 description [1] - 123:14	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ 153:20, 163:11\\ \hline DEVELOPMENT [1] -\\ 1:1\\ device [2] - 105:20,\\ 136:13\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3 Cronkite $[1] - 93:6$ crude $[4] - 60:11$ , 60:12, 68:3 Crump $[1] - 86:10$ CRUMP $[1] - 86:11$ cubes $[1] - 128:13$	$\begin{array}{c} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ danger ous [1] - 138:16\\ dangers [1] - 16:21\\ dare [1] - 137:2\\ dared [1] - 137:2\\ dared [1] - 137:2\\ dared [1] - 135:9\\ dark [1] - 12:13\\ darken [1] - 55:8\\ data [2] - 55:20,\ 72:9\\ Date [1] - 164:15\\ date [2] - 105:5,\ 105:9\\ DATE [1] - 165\\ David [3] - 70:15,\\ 72:22,\ 72:23\\ days [5] - 15:23,\ 53:4,\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication [1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ deer [1] - 145:17\\ defective [1] - 105:12\\ defects [1] - 150:16\\ Defense [1] - 98:4\\ define [1] - 14:12\\ defined [2] - 35:16,\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department[6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16 deposits [1] - 87:16 Deputy [2] - 1:13, 2:8 deriving [1] - 139:23 description [1] - 123:14 deserve [2] - 63:15,	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ 153:20, 163:11\\ \hline DEVELOPMENT [1] -\\ 1:1\\ device [2] - 105:20,\\ 136:13\\ diagnosed [1] -\\ \end{array}$
134:13, 154:5, 154:15 created $[5] - 30:21$ , 47:15, 138:15, 149:6, 149:15 creates $[1] - 148:14$ creating $[2] - 78:4$ , 129:8 creation $[2] - 144:13$ , 155:12 credible $[1] - 141:4$ credit $[1] - 40:6$ Cricket $[1] - 144:2$ criminal $[1] - 47:10$ crisis $[7] - 57:21$ , 59:9, 62:5, 93:7, 124:7, 150:12, 152:5 critical $[5] - 39:15$ , 117:16, 124:9, 142:17, 143:3 Cronkite $[1] - 93:6$ crude $[4] - 60:11$ , 60:12, 68:3 Crump $[1] - 86:10$ CRUMP $[1] - 86:11$	$\begin{array}{l} 19:18,\ 27:5,\ 87:14,\\ 103:4,\ 147:4,\\ 147:19,\ 149:2,\ 149:7\\ damaged [1] - 103:9\\ damaging [1] - 27:10\\ danger [2] - 38:2,\\ 103:10\\ dangerous [5] - 21:3,\\ 22:1,\ 60:14,\ 120:8,\\ 155:21\\ dangerous [5] - 15:23,\ 53:4,\\ 109:16,\ 133:21,\\ \end{array}$	$\begin{array}{c} 37:14, 39:6\\ decreased [2] - 34:2,\\ 35:21\\ decreases [2] - 36:7,\\ 37:11\\ decreasing [1] - 39:5\\ dedication [1] - 150:1\\ deemed [1] - 87:23\\ Deep [1] - 23:8\\ deep [6] - 11:1, 16:12,\\ 17:14, 86:13, 131:8,\\ 149:7\\ deep-seated [1] - 11:1\\ deepen [1] - 20:15\\ deepening [1] - 22:18\\ deeply [2] - 11:16,\\ 12:20\\ deepwater [1] - 133:12\\ Deepwater [1] - 45:3\\ deer [1] - 145:17\\ defective [1] - 105:12\\ defects [1] - 150:16\\ Defense [1] - 98:4\\ define [1] - 14:12\\ \end{array}$	155:9 denial [1] - 57:17 deniers [1] - 151:19 Denmark [2] - 43:23, 44:5 dense [1] - 97:12 densely [1] - 25:3 depart [1] - 102:6 Department[6] - 1:15, 2:10, 24:19, 42:2, 43:11, 83:12 dependence [4] - 18:11, 20:19, 22:18, 68:15 dependent [3] - 21:18, 122:6, 162:2 deployment [4] - 36:13, 39:20, 40:16, 40:18 depos [1] - 50:16 deposits [1] - 87:16 Deputy [2] - 1:13, 2:8 deriving [1] - 139:23 description [1] - 123:14	$\begin{array}{c} 88:5, 88:8, 162:10\\ determines [1] - 37:12\\ devastating [6] - 15:8,\\ 19:5, 19:11, 20:7,\\ 127:1, 160:7\\ devastation [4] - 30:6,\\ 46:2, 73:8, 146:8\\ develop [2] - 4:9, 25:7\\ developed [1] - 30:17\\ developing [6] - 26:5,\\ 29:3, 31:22, 66:1,\\ 84:14, 154:13\\ \hline Development [2] -\\ 2:4, 111:21\\ development [15] -\\ 23:8, 23:12, 23:20,\\ 44:3, 65:16, 101:3,\\ 101:5, 102:2, 111:9,\\ 111:13, 114:5,\\ 126:11, 137:15,\\ 153:20, 163:11\\ \hline DEVELOPMENT [1] -\\ 1:1\\ device [2] - 105:20,\\ 136:13\\ \end{array}$

 $\sim$ 

	· · · · · ·	· · · · · · · · · · · · · · · · · · ·		
DIBENEDETTO [1] -	disparities [1] -	108:16, 120:19,	duties [1] - 9:17	educating [1] - 112:14
138:2	111:15	148:8, 150:10,	duty [1] - 135:12	education [8] - 9:20,
DiBenedetto [3] -	disposal (4) - 16:13,	153:18, 162:14		9:21, 9:22, 57:4,
135:3, 137:23, 138:3	16:18, 140:17, 161:7	downside [1] - 140:9	E	72:6, 99:1, 112:19,
dice [1] - 134:20	disposed [1] - 17:14	downstate [1] - 134:9		161:20
die [1] - 56:14	disproven [1] - 162:8	downstream [2] -		EEPS [2] - 117:21,
died [2] - 43:19	disrespectful [1] -	104:8	early [4] - 26:1,	158:4
147:15	119:22	downward [1] -	137:15, 138:14,	eerie (1) - 26:23
diesel [4] - 50:12,	disruption [4] - 63:2,	161:23	161:15	effect [4] - 17:6,
61:7, 148:3, 151:5	63:9, 64:23, 75:8	dozen [1] - 80:9	earned [1] - 133:7	24:14, 62:15, 81:15
different [1] - 158:3	disruptive [1] - 153:5	dozens [1] - 80:8	earners [1] - 159:19	effective [9] - 13:10,
difficult [1] - 25:4	distances [1] - 148:19	Dr [4] - 9:12, 10:14,	earth [6] - 9:8, 41:9,	14:2, 14:8, 40:15,
digital [1] - 54:1	distress [1] - 88:6	18:14, 96:4	47:4, 141:9, 151:20,	42:4, 48:23, 111:10,
dignity [1] - 111:10	distributed [2] -	DR [1] - 10:16	159:13	116:1, 137:1
dime [1] - 22:18	40:16, 40:18	draft [14] - 3:13, 4:4,	earthquake [4] -	effectively [2] - 24:6,
diminished [1] - 109:4	distribution (2) -	4:14, 6:21, 14:20,	15:14, 15:16, 15:18,	105:17
dimmers (1) - 105:20	71:16, 71:17	43:5, 92:7, 112:1,	15:21	effectiveness [1] -
dioxide [11] - 22:1,	distributor [2] - 70:22,	112:21, 113:14,	earthquakes [7] -	40:17
22:6, 22:7, 57:19,	70:23	114:4, 117:5,	16:1, 16:2, 16:6,	effects [3] - 15:9,
62:10, 62:14, 62:16,	District [2] - 78:18,	130:10, 153:16	16:8, 16:10, 16:15,	27:10, 46:21
71:9, 121:1, 152:18,	79:3	Draft [15] - 1:3, 3:4,	16:18	efficiencies [3] -
152:21	district [1] - 85:23	6:9, 11:7, 20:19,	ease [2] - 101:13,	40:16, 48:15, 49:1
dire [1] - 152:5	diversity [3] - 23:19,	34:18, 39:3, 61:20,	101:14	efficiency [34] - 12:2,
direct [2] - 70:2,	131:15, 154:18	90:15, 98:7, 100:2,	easiest [1] - 109:13	35:4, 36:12, 36:15,
133:22	diverting [1] - 84:19	115:3, 130:6,	East [1] - 91:8 east [5] - 24:21, 32:9,	48:11, 48:19, 48:20,
direction [4] - 5:18,	Divide [1] - 148:10	152:11, 163:12	60:14, 86:16, 86:22	54:16, 64:9, 65:21,
64:15, 84:7, 111:1	division [1] - 47:20	drafters [1] - 155:3		67:11, 74:9, 78:8,
directions [1] - 148:18	dizziness [1] - 127:22	dramatic [1] - 101:23	eastern [1] - 94:13	101:16, 112:16,
Director (6) - 29:1,	doable [2] - 44:13,	dramatically [2] -	easy [1] - 31:13	112:17, 113:11,
42:11, 51:18, 78:18,	125:22	35:21, 134:6	eat [1] - 59:8	113:19, 114:18,
79:3, 129:20	dollar [2] - 43:3, 48:23	drastically [1] - 152:1	Eatons [1] - 145:15	115:13, 115:19,
director [2] - 135:10,	dollars [7] - 69:4,	drill [3] - 83:6, 107:13,	ECES [1] - 70:18	116:3, 118:4, 118:8,
138:3	107:22, 130:13,	121:16	echo [1] - 139:17	118:13, 118:23,
dirtier (1) - 148:23	130:19, 144:8,	drillers [1] - 87:15	eclipsing [1] - 131:12	121:23, 122:1,
dirty [8] - 20:16, 21:3,	144:12, 144:17	drilling [2] - 16:20,	ecology [1] - 21:17 economic [17] - 23:12,	139:19, 139:20,
73:19, 92:16,	done [21] - 18:21,	41:1	23:20, 29:21, 49:9,	140:6, 155:13,
108:12, 146:11,	19:16, 24:18, 31:22,	drink [2] - 47:6, 59:7	75:11, 75:17, 75:22,	158:4, 161:11
148:10, 149:8	49:19, 55:1, 55:3,	drinkable [1] - 59:14	96:12, 101:5, 102:2,	Efficiency [1] - 115:5
disappointment [1] -	55:17, 63:14, 69:13,	drinking [1] - 104:8	104:18, 111:11,	efficient [14] - 14:9,
79:11	85:23, 114:2, 119:8,	drive [2] - 28:7, 73:18	126:16, 130:7,	22:5, 36:16, 37:10, 39:12, 41:13, 49:16,
disaster [1] - 20:8	122:5, 136:18,	driven [1] - 13:14	130:23, 134:12,	99:6, 103:20,
disasters [1] - 29:7	137:4, 137:20,	dropped [2] - 88:20,	147:20	111:13, 115:8,
disconnect [1] - 101:7	149:20, 156:7,	88:21	economically [3] -	136:23, 142:20,
discourage [2] -	156:11, 156:20	droughts [2] - 62:22,	32:15, 96:11, 111:5	145:18
35:17, 36:1	Donovan [6] - 33:15,	93:20	economics [1] - 107:7	efficiently [2] - 54:13,
discouraging [1] -	34:21, 38:12, 38:14,	drove [1] - 150:8	Economics [1] -	144:19
127:4	81:6, 82:11	dry [1] - 107:16	156:13	effort [7] - 5:19, 31:21,
discover [1] - 54:10	doomed [1] - 95:19	due [8] - 17:23, 25:22,	economy [14] - 11:23,	52:5, 53:18, 118:2,
discuss [2] - 34:13,	door [1] - 128:22	26:23, 36:18, 38:3,	14:17, 21:18, 24:23,	134:2, 158:6
79:7	doors [1] - 2:15	83:9, 113:18, 161:12	30:9, 30:20, 32:7,	efforts [2] - 12:11,
discussed [2] - 65:6,	dots [1] - 160:2	dumped [1] - 19:10	74:13, 93:3, 126:18,	84:22
99:14	double [1] - 60:18	dumping [3] - 104:6,	130:21, 131:1,	eight [1] - 126:20
discusses [1] - 125:20	doubled [1] - 153:21	108:23, 109:11	134:12, 152:10	either [4] - 6:5, 14:4,
discussing [1] - 160:3	doubt [1] - 136:16	Duran [1] - 91:8	Edison [1] - 131:14	53:15, 112:9
discussion [3] -	down [22] - 13:3, 14:3,	during [13] - 15:23,	Edison's [1] - 131:20	Eleanor [3] - 7:13,
30:23, 156:6, 159:2	21:23, 33:17, 40:1,	24:7, 24:9, 27:2,	Edmond [1] - 15:11	8:11, 8:12
disease [2] - 94:2,	45:1, 46:3, 56:21,	37:21, 69:3, 70:9,	educate [2] - 77:6,	electric [43] - 11:13,
159:7	57:6, 58:8, 69:2,	101:12, 119:13,	116:22	12:22, 13:5, 28:7,
diseases [1] - 62:20	70:6, 93:14, 104:19,	131:8, 147:8,	educated [1] - 75:12	35:1, 35:7, 35:10,
dismantle [1] - 144:5	108:12, 108:15,	151:13, 157:5		
		1		

	1		·	· · · ·
35:16, 35:22, 36:2,	emissions [25] -	18:7, 18:9, 18:20,	113:17, 113:19,	70:17, 73:6, 76:23,
36:7, 37:1, 41:18,	22:15, 37:15, 37:17,	20:4, 20:15, 23:3,	113:23, 114:1,	77:3, 77:5, 77:10,
43:15, 48:14, 48:20,	37:20, 49:10, 50:1,	23:13, 24:6, 25:2,	114:4, 114:10,	79:1, 79:10, 82:1,
50:4, 50:6, 50:17,	50:9, 68:11, 68:20,	25:5, 27:13, 28:16,	114:14, 114:17,	82:23, 83:13, 90:15,
51:2, 64:10, 65:14,	71:20, 71:22, 72:3,	29:8, 29:10, 29:11,	115:8, 115:10,	98:7, 99:4, 100:2,
71:15, 71:23, 84:2,	73:13, 88:19, 88:21,	29:16, 30:11, 30:19,	115:11, 115:12,	110:22, 111:21,
99:7, 99:13, 100:4,	99:21, 99:22, 99:23,	31:1, 31:9, 31:10,	115:13, 115:19,	115:3, 129:19,
101:9, 101:11,	121:2, 139:2, 152:1,	31:18, 32:7, 32:16,	115:22, 116:3,	130:6, 131:22,
101:20, 105:1,	152:9, 152:17,	33:4, 34:6, 34:20,	116:11, 116:22,	136:21, 138:14,
105:4, 105:20,	160:13, 160:14	34:23, 35:3, 35:5,	117:12, 118:4,	144:2, 147:2, 151:2,
106:3, 106:15,	emits [1] - 41:19	35:11, 35:12, 35:18,	118:8, 118:11,	152:12, 156:11,
122:7, 131:11,	emotion [1] - 141:20	35:21, 36:7, 36:12,	118:13, 118:16,	156:13, 163:7,
132:5, 133:3, 140:1,	emphasis [3] - 63:17,	36:15, 37:6, 37:14,	118:23, 119:20,	163:13
143:17, 157:12	63:18, 79:11	38:9, 38:16, 39:15,	120:4, 120:7, 121:9,	Energy's [1] - 43:12
Electric [1] - 10:19	emphasize [2] - 62:12,	40:4, 40:16, 40:17,	121:18, 121:21,	energyplan.ny.gov [2]
electrical [8] - 29:18,	114:3 Franking and 70:47	40:21, 42:18, 43:7, 43:9, 43:10, 43:12,	121:23, 122:1, 123:10, 123:23,	- 3:7, 7:2 enforceable [5] -
30:12, 37:5, 48:18,	Empire [4] - 70:17,	43.9, 43.10, 43.12, 44:7, 44:9, 44:18,	124:2, 124:6,	63:17, 64:11, 73:23,
60:10, 84:19, 101:14, 136:15	81:1, 133:3, 137:17	44:23, 45:12, 45:16,	124:16, 124:22,	139:14
electrically [1] - 162:2	employed [2] - 24:15,	46:8, 47:16, 48:11,	125:4, 125:21,	enforced [1] - 49:4
Electricity [1] - 102.2	29:13	48:15, 48:17, 49:1,	125:23, 126:2,	engage [1] - 85:14
129:21, 139:7	employer [1] - 159:11	49:16, 51:6, 51:12,	126:3, 126:5,	engaged [2] - 30:11,
electricity [30] - 11:18,	employing [1] - 162:3 EMT [1] - 56:1	53:21, 53:22, 54:15,	126:14, 127:12,	103:6
11:21, 13:18, 35:20,	enable [4] - 20:20.	54:16, 54:17, 54:23,	128:19, 129:2,	engagement [1] -
36:5, 37:4, 37:7,	enable [4] - 20:20, 21:10, 101:12,	55:3, 55:9, 55:10,	129:7, 130:13,	11:12
37:11, 43:14, 50:23,	138:10	55:17, 56:22, 57:4,	130:17, 130:23,	engineer [2] - 49:8,
51:5, 57:13, 78:10,	enables [1] - 81:13	59:21, 61:23, 63:7,	131:4, 131:18,	60:10
92:21, 99:11,	enabling [1] - 22:19	63:13, 63:16, 65:20,	132:17, 133:12,	engines [1] - 106:3
101:10, 103:13,	encourage [6] - 14:18,	65:21, 65:22, 65:23,	134:19, 134:21,	England [2] - 84:9,
103:18, 103:19,	28:17, 52:7, 98:23,	66:8, 66:22, 66:23,	135:10, 137:10,	84:13
106:16, 130:1,	118:22, 138:9	67:10, 68:7, 68:14,	137:16, 137:21,	enhance [1] - 113:17
130:15, 131:7,	encouraged [2] -	69:7, 69:20, 69:21,	138:12, 138:17,	enhancement [1] -
131:12, 136:9,	28:13, 158:5	70:8, 70:21, 71:5,	139:19, 139:21,	111:10
136:11, 136:12,	encourages [1] -	71:21, 72:13, 73:18,	139:23, 140:1,	enjoy [3] - 11:5, 40:2,
139:9, 139:11,	126:1	73:20, 73:22, 74:6,	140:2, 140:3, 140:6,	76:6
143:12	encouraging [3] -	74:8, 74:9, 74:11,	140:7, 140:8,	enjoyed [1] - 40:5
electrification [1] -	12:13, 49:16, 130:9	74:13, 74:14, 74:18,	140:14, 142:18,	enormous [1] - 153:14
50:14	End [2] - 57:7, 57:14	74:23, 75:4, 75:6,	142:20, 144:9,	ensnare [1] - 159:12
electrifying [1] - 50:7	end [6] - 24:17, 66:12,	75:21, 76:10, 76:12, 76:17, 77:4, 77:7,	144:16, 144:17, 145:2, 145:17,	ensure [4] - 30:23,
eligible [1] - 40:6	86:22, 133:4,	76:17, 77:4, 77:7, 77:20,	145.2, 145.17, 147:19,	64:8, 129:23, 130:17
eliminate [6] - 37:21,	145:21, 153:18	78:1, 78:3, 78:7,	149:19, 149:21,	enter [1] - 156:6
38:2, 41:9, 71:8,	ended [1] - 157:20	78:9, 79:7, 79:12,	150:2, 150:21,	entertaining [1] - 6:20
96:13, 99:12	endorse [1] - 34:14	79:17, 80:1, 80:14,	150:23, 152:10,	entire [8] - 16:9, 48:2,
eliminated [4] - 35:19,	endorsed [2] - 83:11,	80:16, 80:23, 81:2,	152:13, 153:20,	97:13, 104:3,
72:4, 126:9, 126:11	83:13	81:14, 82:2, 82:6,	153:22, 154:2,	119:21, 120:9,
eliminates [3] - 71:8,	energetic [1] - 32:13	83:23, 85:10, 87:12,	154:6, 154:15,	121:9, 142:13
71:10, 71:16 eliminating [1] - 35:14	energies (3) - 135:5,	87:19, 89:1, 89:11,	154:20, 154:23,	entirely [4] - 9:7, 78:4,
Elizabeth [2] - 146:17,	146:11, 149:12	92:7, 92:8, 92:10,	155:13, 155:14,	90:4, 120:6
151:9	energize [1] - 67:13	92:23, 93:7, 93:11,	155:15, 156:5,	entities [3] - 40:13,
elucidates [1] - 160:8	energized [1] - 145:9	96:14, 96:22, 96:23,	157:8, 157:16,	66:9, 158:7
embarking [1] -	energy [325] - 3:6,	97:3, 98:8, 98:17,	158:4, 159:3, 160:9,	entrepreneur [1] -
134:18	3:14, 3:18, 3:22, 4:6,	99:18, 101:3, 101:4,	161:14, 162:10	137:10
embrace [1] - 46:11	4:7, 4:17, 4:23, 7:22,	101:6, 106:8,	ENERGY [1] - 1:1	entrepreneurship [1]
embracement [1] -	8:23, 9:1, 9:5, 9:7,	107:19, 109:16,	Energy [54] - 1:3, 2:3,	- 137:15 Environment [1] -
45:15	10:17, 11:3, 11:11,	109:18, 112:1,	2:5, 3:4, 3:5, 3:9,	42:12
emergency [2] -	12:2, 12:12, 12:22,	112:5, 112:8,	4:21, 6:9, 10:8, 11:7,	42.12 environment [10] -
103:14, 103:15	13:2, 13:8, 13:15,	112:13, 112:16,	23:14, 24:19, 31:7,	9:5, 9:22, 19:19,
emission [2] - 68:13,	13:17, 13:23, 14:1,	112:17, 112:21,	33:21, 34:9, 34:18,	21:10, 46:22, 62:7,
153:7	14:2, 14:4, 14:15, 14:16, 15:5, 15:6,	113:5, 113:7,	38:22, 39:4, 42:2,	68:8, 140:20, 147:5,
	17.10, 10.0, 10.0,	113:11, 113:14,	61:19, 61:20, 66:21,	
				1

1. 1. 1.

153:10	80:9, 85:22, 96:13	100:6, 114:17, 155:6	extracting [1] - 61:5	Farmingdate [6] - 1:8,
environmental [19] -	evening [2] - 42:10,	expansion [1] -	extremely [3] - 22:4,	1:9, 2:13, 8:13, 10:1,
26:1, 27:20, 34:21,	65:4	120:11	39:15, 163:14	163:6
37:13, 42:1, 42:13,	evenings [1] - 119:18	expansions [1] - 111:4	Exxon [1] - 46:22	farmland [2] - 127:20,
42:17, 62:3, 82:16, 87:14, 88:2, 88:8,	event [1] - 79:4		eye [1] - 86:16	128:23
90:11, 91:4, 106:5,	events [1] - 149:4	expect [1] - 110:3	-	farms [7] - 80:6, 80:9,
112:17, 119:7,	everyday [1] - 37:12	expectancy [1] - 41:19	F	89:4, 89:10, 90:3,
130:8, 160:14	everywhere [2] -	expectation [1] -		97:11, 97:13
Environmental [3] -	31:23, 83:7	22:14	face [1] - 152:6	fast [2] - 121:14, 131:18
1:15, 2:10, 135:11	evidence [3] - 16:17,	expected [1] - 143:13	facilitating [1] - 67:3	
environmentally [3] -	19:8, 110:7	expeditiously [1] - 65:11	facilitator [2] - 67:18	faster [3] - 91:1, 93:21 fastest [1] - 50:2
14:10, 42:4, 111:5	evidenced [1] - 149:22 EVs [2] - 101:10,	expensive [4] - 71:11,	147:4	Fasullo [2] - 47:13,
envision [1] - 67:12	101:14	72:10, 72:15, 112:9	facilities [4] - 20:21,	47:18
envisioned [1] - 118:5	exacerbating [1] -	experience [8] - 19:3,	29:19, 67:5, 116:5	FASULLO[1] - 47:14
envisions [1] - 3:14	121:10	19:5, 19:6, 29:5,	facility [6] - 13:3, 20:5,	father [1] - 147:13
EPA [4] - 35:5, 42:2,	exact [1] - 127:14	34:5, 46:2, 54:22,	21:6, 22:21, 146:6,	faucet [1] - 26:18
71:20, 83:13	exact[1] = 127.14 example [8] - 9:23,	127:6	160:15	favor [2] - 51:20,
equally [2] - 4:23,	59:17, 61:3, 88:13,	experienced [6] -	facing [1] - 111:3	82:18
80:17	89:5, 116:17, 129:8,	16:6, 16:8, 16:10,	fact [9] - 16:9, 54:12,	fearsome [1] - 151:18
equation [2] - 138:19,	135:12	85:15, 86:17, 131:23	97:2, 109:2, 123:4,	feasibility [2] - 85:16,
140:11	examples [1] - 63:2	experiencing [3] -	123:18, 138:21,	86:1
equations [1] - 136:17	excavation [1] - 41:2	18:3, 62:5, 152:2	141:19, 149:1	feasible [1] - 116:1
equipment [9] - 40:4.	excellent [1] - 163:8	expertise [1] - 65:17	factors [2] - 54:14,	featured [1] - 55:9
41:17, 70:21, 71:14,	except [3] - 107:23,	expire [1] - 48:21	65:3	February (6) - 15:12,
72:1, 106:9, 106:10,	109:8, 157:12	explain [2] - 39:11,	fail [2] - 67:19, 107:15	16:7, 38:6, 60:11,
106:11, 148:8	excessive [1] - 161:4	141.20	failed [2] - 120:2,	89:18, 131:3
equipped [1] - 60:15	excited [1] - 75:10	explains [3] - 76:13,	135:23	federal [4] - 65:7,
equity [1] - 52:16	exciting [2] - 154:13,	159:14, 159:15	fails [2] - 105:12,	83:11, 83:15, 104:16
equivalent [1] - 62:16	155:11	exploding [1] - 92:1	105:16	Federation [1] - 29:1
Eric [2] - 18:23, 19:21	excluded [1] - 88:16	exploit [1] - 68:5	failure [2] - 36:18,	feedback [1] - 6:21
error [1] - 136:23	excuse [1] - 59:23	explore [2] - 23:20,	87:18	feet [4] - 26:16, 60:17,
escalating [1] -	executive [5] - 47:20,	74:12	fair [2] - 121:18, 123:2	69:4, 86:18
146:11	52:19, 52:20, 138:3	explored [1] - 115:19	fairness [1] - 95:7	Feldmann [3] - 66:17,
escaping [1] - 16:22	Executive [5] - 1:13,	exploring [1] - 23:18	Falik [2] - 97:21, 102:5	70:14, 70:17
especially [8] - 12:12,	2:8, 29:1, 42:11,	explosions (3) -	FALIK [1] - 102:6	FELDMANN [1] -
12:17, 112:23,	51:18	68:11, 92:12, 154:17	falling [1] - 84:7	70:16
131:16, 132:2,	exemplary [2] - 2:19,	expo [1] - 59:12	false [3] - 120:6,	fell [1] - 60:21
134:3, 136:4, 149:16	162:13	export [7] - 21:21,	122:10, 123:10	felt [1] - 58:3
Esposito [3] - 38:13,	exemplified [1] -	67:4, 67:17, 67:22,	famed [1] - 76:6	few [8] - 61:13, 61:22,
42:8, 42:11	162:1	91:6, 134:15, 146:5	families [6] - 15:8, 27:9, 59:6, 63:8,	75:1, 107:4, 107:16,
ESPOSITO [1] - 42:10	exemption [1] - 40:3	exported [1] - 69:5	73:17, 76:7	119:14, 125:10,
espousing [1] - 83:2	exhibit [1] - 136:7	exposed [2] - 41:17,	family [2] - 132:22,	139:6
essentially [1] - 53:8	exist [1] - 141:7	53:8	147:6	field [5] - 13:9, 26:22,
establish [1] - 64:4	existence [1] - 119:21	exposure [3] - 54:11,	fantasies [1] - 162:9	60:1, 123:2, 160:18
established [4] -	existing [10] - 12:17,	54:20, 153:12	far [13] - 39:5, 39:14,	fields [1] - 137:18
63:20, 109:2,	37:5, 71:15, 72:15,	express [1] - 67:9	39:18, 40:15, 40:22,	fifth [1] - 64:19
117:20, 149:17	114:12, 116:6,	Express [1] - 144:20	48:12, 53:20, 55:12,	fighting [1] - 119:7
esteemed [1] - 142:8	116:7, 117:1,	extend [1] - 53:18	63:22, 63:23,	figure [1] - 55:7
estimated [2] -	118:13, 118:23	extended [1] - 94:16	116:14, 136:4,	figured (1) - 44:11
107:20, 138:13	exists [2] - 43:17,	extending [2] - 48:10,	157:10	figuring [1] - 120:4
estimates [5] - 24:19, 108:1, 108:2,	134:4 ovitati 120:10	155:7	farm [8] - 43:17,	filled [1] - 19:4
133:17, 139:8	exit [1] - 120:19	extension [3] - 40:9,	43:22, 44:3, 89:5,	film [2] - 52:8, 160:8
etc [2] - 41:10, 145:17	exits [1] - 2:14	62:7, 139:22	89:7, 97:11, 122:19,	filming [1] - 2:22
Eugene [2] - 97:21,	expand [4] - 12:11,	Extensions [1] - 59:4	127:15	final [7] - 4:22, 5:2,
102:5	78:9, 153:20, 154:13	extensive [1] - 62:22	farmer [1] - 97:11	14:14, 14:18,
Europe [10] - 44:1	expanded [2] - 77:18, 113:4	extent [3] - 22:22,	farmers [1] - 26:4	143:23, 157:17,
44:2, 44:8, 44:11,		87:14, 162:14	farmers' [1] - 127:21	163:16 Final III - 163:13
44:14, 65:18, 66:4,	expanding [7] - 48:10, 74:7, 78:7, 99:5,	extra [1] - 7:22 extract [1] - 147:23	farming [1] - 26:2	Final [1] - 163:13 finally [6] - 49:11,

.

	1			
66:8, 84:14, 89:12,	flow [2] - 134:8,	forecast [1] - 131:20	128:21, 137:12,	124:23
99:13, 114:11	155:12	forefront [1] - 29:16	138:19, 138:21,	fragility [1] - 29:7
finance [1] - 84:4	flue [1] - 38:3	foregoing [1] - 164:6	139:9, 139:11,	Frankly [1] - 119:21
financial [3] - 72:6,	fluid [2] - 148:5,	foreign [3] - 68:3,	140:8, 140:10,	frankly [1] - 45:23
72:8, 72:17	148:12	68:23, 144:10	146:5, 147:4,	Frankum (2) - 90:8,
financially [1] - 30:7	flush [2] - 104:9,	foresee [1] - 32:17	149:18, 150:4,	95:9
financing [7] - 11:13,	104:12		150:19, 150:21,	FRANKUM [1] - 95:11
		forest [2] - 102:13,	152:9, 152:13,	
13:8, 39:15, 40:10,	flushed [1] - 104:6	102:21	153:18, 155:21	free [4] - 18:20,
85:12, 112:4, 144:8	focus [7] - 6:8, 11:11,	forever [2] - 102:13,		106:16, 149:16,
findings [1] - 99:16	35:22, 66:1, 68:7,	110:2	fouling [1] - 160:14	161:17
fine [2] - 11:5, 146:4	114:7, 147:2	forget [1] - 91:12	foundation [2] -	freeze [1] - 131:8
finger [1] - 54:7	focused [3] - 3:18,	form [3] - 126:4,	12:22, 29:21	Freidel [3] - 86:10,
FIOS [1] - 103:19	112:2, 149:18	129:2, 134:21	Foundation [1] -	90:8, 90:9
fire [2] - 55:19, 108:23	focuses [2] - 11:8,	formal [1] - 6:16	156:20	FREIDEL [1] - 90:9
fires [1] - 38:3	36:9	formed [1] - 129:22	founded [1] - 90:11	frequency [1] - 16:4
firm [2] - 13:17, 150:4	fold [1] - 100:20	former [1] - 91:8	founders [1] - 138:4	frequent [4] - 7:23,
first [28] - 2:13, 4:5,	folks [3] - 91:15,	formerly (1) - 98:3	four [6] - 89:3, 100:20,	16:19, 62:23, 131:2
4:10, 7:12, 11:16,	156:1, 163:1	forming [1] - 31:6	126:1, 132:22,	fresh [2] - 17:10,
29:5, 43:22, 50:10,	follow [3] - 49:6, 63:6,	forms [2] - 25:4, 140:3	133:18, 161:10	127:21
53:23, 59:23, 65:11,	78:13	formulating [1] -	four-fold [1] - 100:20	Friedman (3) - 72:22,
67:20, 70:5, 77:2,	followed [45] - 7:13,	152:7	fourth [1] - 119:6	76:21, 76:22
83:11, 85:12, 87:13,	8:11, 9:12, 10:14,	forth [8] - 11:20,	Fox [1] - 160:8	FRIEDMAN [1] - 76:22
89:6, 98:12, 107:6,	15:1, 18:23, 23:6,	19:12, 30:15, 32:19,	foxes [1] - 145:17	friend [2] - 38:23,
107:14, 115:23,	25:11, 27:18, 28:22,	33:9, 43:19, 43:23,	frack [5] - 9:6, 17:3,	127:19
125:2, 138:8, 147:6,	33:15, 38:12, 42:8,	98:8	96:18, 96:19, 127:15	friendly [3] - 14:10,
153:9, 153:11,	47:13, 51:16, 56:18,	fortunately [2] - 64:23,	fracked [11] - 17:11,	42:4, 111:5
154:10	58:13, 58:15, 61:17,	83:5	18:8, 22:11, 92:20,	friends [2] - 76:15,
First [1] - 115:5	66:8, 66:17, 70:10,	fortune [1] - 59:12	120:21, 148:4,	146:1
first-hand [1] - 29:5	70:14, 72:22, 76:21,	forward [22] - 18:9,	152:14, 152:22,	frivolous [1] - 95:17
firsthand [2] - 29:7,	78:16, 81:6, 86:10,	23:23, 30:13, 30:16,	153:17, 155:16	front [2] - 29:6, 30:5
75:7	90:8, 95:9, 97:21,	32:5, 44:12, 66:6,	fracking [69] - 7:22,	frugal [1] - 96:6
fish [1] - 146:7	102:5, 106:21,	74:21, 75:20, 95:15,	8:5, 8:7, 8:15, 8:19,	fruition [1] - 131:21
fish-shaped [1] -	107:1, 110:14,	97:8, 113:18, 120:5,	9:10, 15:9, 16:22,	
146:7	114:22, 119:4,		17:1, 17:6, 17:9,	fuel [47] - 13:20,
fishing [3] - 90:12,	124:23, 129:15,	121:20, 122:17,	17:13, 17:15, 17:20,	29:11, 35:15, 36:5,
90:13, 92:14	135:3, 137:23,	122:22, 123:6,	18:1, 18:4, 19:14,	36:6, 37:22, 45:12,
Fiteni [2] - 151:9,	142:7, 145:13,	124:10, 126:21,	20:3, 20:23, 21:1,	51:2, 57:15, 57:18,
	146:17, 151:9	131:18, 141:16,	21:11, 21:19, 22:2,	68:18, 68:22, 69:20,
155:23	following [7] - 5:10,	149:14	22:10, 22:16, 22:19,	70:2, 75:16, 77:17,
FITENI [1] - 156:3	6:5, 10:4, 117:9,	fossil [76] - 7:22,	22:20, 26:13, 39:8,	84:20, 85:5, 85:20,
five [12] - 3:18, 6:12,	130:9, 146:19,	13:20, 18:8, 19:9,	46:21, 46:23, 47:1,	88:17, 92:16, 92:17,
6:14, 28:14, 42:12,	160:12	19:18, 20:16, 20:20,	47:3, 47:6, 47:8,	99:22, 100:15,
42:13, 86:6, 87:11,	follows [1] - 77:12	23:21, 29:11, 35:15,	52:6, 57:17, 58:7,	116:11, 118:8,
89:18, 119:19,		36:4, 36:6, 37:22,	67:5, 68:20, 82:5,	118:9, 118:14,
156:22, 161:23	followthrough [1] -	38:1, 39:10, 41:10,		120:8, 120:12,
fixed [1] - 132:3	49:13	45:11, 45:12, 46:7,	87:15, 87:17, 88:6,	122:23, 123:1,
flag [1] - 60:20	Food [6] - 19:22,	57:15, 57:18, 60:1,	88:7, 90:21, 92:14,	123:9, 123:17,
flame [1] - 26:19	58:14, 58:17, 66:20,	60:2, 62:9, 67:3,	92:15, 92:20, 92:21,	125:21, 126:10,
flammable [1] - 60:14	145:19, 158:18	67:10, 68:22, 69:20,	102:8, 102:9,	126:17, 126:22,
flat [5] - 11:19, 59:19,	food [5] - 21:11, 59:8,	70:2, 73:19, 74:5,	102:20, 103:3,	131:15, 140:8,
81:20, 104:23,	91:2, 127:21, 138:5	75:9, 77:17, 84:20,	103:6, 104:3, 107:7,	147:21, 147:22,
151:20	fool [1] - 59:1	85:5, 85:20, 88:12,	107:9, 121:16,	152:10
fieet [3] - 50:8, 61:5,	foolish [1] - 51:6	88:17, 116:10,	125:19, 148:5,	fueled [2] - 100:5,
90:13	foot [4] - 26:20, 69:15,	118:10, 120:8,	148:12, 148:20,	100:9
fleets [1] - 61:4	69:23, 86:20	120:12, 122:6,	148:23, 151:1,	fueling [1] - 68:17
flex [1] - 85:14	footprint [2] - 156:19,	122:23, 123:1,	154:9, 154:11,	fuels [43] - 7:22, 18:8,
flexible [2] - 3:15, 3:20	156:21	123:9, 123:17,	160:13, 161:8	19:9, 19:18, 20:16,
flood [2] - 19:4, 86:19	force [3] - 34:7, 35:17,	125:21, 126:7,	fracturing [3] - 34:12,	20:20, 29:14, 38:1,
flooded [1] - 86:23	35:23	126:10, 126:17,	87:13, 87:20	39:10, 41:11, 46:7,
floods [2] - 127:1,	Force [1] - 94:21	126:22, 127:2,	FRACZEK [1] - 125:2	60:2, 62:10, 63:12,
127:3	forced [1] - 76:8	128:1, 128:17,	Fraczek [2] - 119:4,	67:3, 67:10, 69:1,

I

73:19, 74:5, 75:9, 15:7, 16:19, 16:22, 88:12, 122:6, 126:7, 18:8, 18:11, 20:5, 127:2, 128:1, 21:7, 21:21, 22:1, 128:17, 128:21, 22:2, 22:5, 22:11, 137:12, 138:19, 22:15, 22:19, 24:10, 138:22, 139:9, 26:19, 28:5, 28:18, 139:11, 140:10, 29:18, 34:12, 37:14, 146:5, 147:4, 37:19, 38:3, 39:7, 41:11, 45:11, 45:14, 149:19, 150:4, 150:19, 150:21, 45:16, 48:8, 50:1, 152:13, 153:18, 56:3, 57:18, 58:20, 155:21 61:4, 61:5, 61:7, 63:12, 65:15, 66:23, Fukushima [2] - 60:5, 94:11 67:21, 68:6, 68:16, full [4] - 22:22, 62:17, 69:1, 69:3, 69:20, 74:4, 93:12 71:17, 71:19, 73:12, fully [8] - 21:15, 30:8, 85:3, 85:6, 87:21, 83:11, 83:13, 84:20, 88:19, 90:22, 90:23, 92:18, 92:20, 97:1, 87:21, 87:22, 89:17 99:2, 99:21, 107:11, fumes [1] - 151:5 120:7, 120:21, fund [5] - 136:22, 121:10, 122:13, 137:14, 159:18, 159:20, 159:23 122:21, 123:11, 123:20, 124:5, fundamental [1] -125:18, 126:4, 111:12 126:7, 126:8, 126:9, funded [2] - 94:15, 127:18, 127:23, 113:2 131:16, 131:19, funding [6] - 3:20, 132:1, 132:6, 49:5, 78:6, 89:22, 133:15, 133:19, 90:3, 146:14 134:6, 134:8, funds [2] - 14:12, 134:15, 134:16, 126:22 135:15, 137:14, funneled [1] - 129:4 138:20, 139:2, future [29] - 4:6, 140:4, 142:21, 17:20, 18:7, 23:3, 147:22, 148:1, 29:17, 45:17, 58:2, 148:9, 149:1, 63:7, 63:13, 68:14, 149:22, 150:5, 69:7, 71:6, 72:13, 152:1, 152:9, 91:17, 98:8, 101:2, 152:15, 152:17, 111:6, 117:13, 152:22, 152:23, 119:20, 119:21, 153:17, 154:21, 124:22, 127:2, 155:16, 155:21, 128:18, 128:20, 157:23, 161:10, 129:9, 130:8, 162:14 142:18, 150:23, Gas [2] - 90:17, 91:5 152:16 gases [9] - 62:10, 62:13, 62:14, 72:4, G 77:13, 80:17, 87:6, 87:18, 102:1 gallon [3] - 150:19, Gasland [2] - 52:4, 161:11, 161:13 160:8 gallons [4] - 17:10, gasoline [3] - 101:23, 59:10, 104:11, 106:4, 147:9 104:13 gastrointestinal [1] gap [1] - 157:14 26:6 gaps [1] - 157:9 Gazette [1] - 131:5 garage [1] - 137:5 general [4] - 39:17, gas [115] - 8:21, 12:12, 50:19, 157:17, 161:1 12:15, 14:5, 14:7, generally [1] - 52:10

generate [1] - 45:3 generated [4] - 44:9, 106:17, 131:6, 136:12 generating [4] - 12:3, 31:1, 69:20, 140:15 generation [17] - 76:6, 77:7, 89:16, 92:9, 94:1, 99:12, 104:22, 105:1, 119:6, 132:5, 139:10, 139:11, 143:18, 143:19, 144:4, 144:21, 153:21 generations [2] - 76:8, 91:17 generators [1] - 97:4 gentleman (1) - 59:16 genuine [1] - 22:13 Geo [4] - 84:13, 84:14 GeoColumn [1] - 71:1 geoengineering [1] -109:9 geoengineers [1] -109:8 geographical [1] -142:12 geography [2] - 64:22, 64:23 Geological [1] - 16:1 geologist [1] - 82:15 Geology [1] - 16:14 geology [1] - 83:4 geophysics [1] -16:16 George [3] - 28:22, 31:4, 31:5 geothermal [48] -33:23, 34:10, 34:16, 38:18, 39:1, 39:9, 39:16, 39:21, 40:2, 40:5, 40:11, 40:13, 40:14, 40:16, 40:19, 40:22, 41:5, 41:7, 41:9, 41:16, 42:3, 42:23, 46:12, 52:13, 57:9, 70:23, 71:5, 71:7, 71:20, 72:14, 78:1, 82:18, 83:6, 83:15, 83:21, 84:3, 85:1, 85:10, 85:16, 85:19, 85:21, 92:10, 97:4, 98:13, 98:18, 99:1 Geothermal [3] - 34:8, 38:22, 82:23 germany [1] - 44:6 Germany [7] - 59:17, 59:18, 96:5, 96:14, 97:15, 154:22

Germany's [2] - 13:12, 13:17 GHP [5] - 34:16, 34:22, 35:15, 37:19, 38:8 GHPs [11] - 35:5, 35:17, 36:1, 36:6, 36:13, 36:19, 37:1, 37:6, 37:15, 37:21, 38:1 giant [1] - 129:8 given [3] - 103:23, 132:4, 163:9 Given [1] - 152:5 glacial [1] - 44:22 glad [7] - 34:4, 44:1, 47:14, 47:15, 76:2, 96:2, 120:23 gladys [1] - 146:17 Gladys [2] - 145:13, 146:22 glaring [1] - 42:21 global [14] - 13:16, 44:21, 57:21, 59:2 62:8, 63:13, 101:19, 108:11, 109:5, 110:9, 141:8, 152:5, 152:20 globally [1] - 24:16 globe [1] - 43:22 glory [1] - 137:19 goal [30] - 6:17, 11:20, 13:7, 15:5, 22:14, 36:14, 37:16, 38:8, 63:20, 63:23, 64:3, 64:6, 73:12, 73:17 74.8, 76:2, 77:13, 77:16, 85:2, 87:10, 87:11, 88:11, 89:4, 89:13, 90:1, 100:8, 100:19, 101:17, 130:12, 156:21 goals [26] - 4:2, 30:20, 34:17, 34:19, 39:3, 39:5, 42:22, 43:4, 43:7, 48:8, 48:14, 63:19, 64:4, 64:9, 64:10, 67:8, 100:1, 101:8, 115:9, 139:4, 139:19, 139:21, 144:16, 146:4, 152:16, 155:20 God [2] - 45:9, 95:12 golden [1] - 96:16 Gollon [3] - 58:16, 61:17, 61:21 GOLLON [1] - 61:18 golly [1] - 96:23 goodness [1] - 44:7 goods [1] - 134:14

Gordon [10] - 33:15, 34:21; 38:12, 38:15, 76:21, 78:16, 78:18, 79:4, 81:6, 82:11 GORDON [1] - 38:14 Government[1] -113:8 government [10] -13:10, 40:12, 51:8, 65:7, 83:12, 96:22, 104:17, 127:11, 149:5, 161:15 governor [18] - 22:20, 28:6, 28:17, 32:2, 32:18, 33:8, 47:15, 48:9, 64:16, 66:5, 73:10, 73:13, 75:3, 80:20, 124:13, 143:22, 145:4, 145:5 Governor [30] - 8:4, 8:7, 9:9, 18:6, 18:19, 20:2, 20:12, 20:14, 20:18, 21:14, 22:9, 22:10, 22:13, 23:15, 57:2, 63:4, 63:21, 73:9, 74:16, 74:19, 74:20; 75:21, 76:10, 90:19, 120:2, 145:1, 146:3, 146:13, 155:5, 155:17 governor's [5] - 11:7, 74:2, 76:1, 84:22, 85:6 governors [1] - 75:19 graduated [1] - 60:9 graduation [1] - 143:8 grand [1] - 33:2 grandchildren [5] -28:1, 58:4, 63:15, 82:8 grandmother [1] -28:1 Granger [1] - 102:10 granting [1] - 143:23 grass [2] - 42:16, 62:3 grassroots [1] - 111:7 grateful [1] - 150:22 grave [1] - 46:21 Great [2] - 43:19, 86:22 great [16] - 32:11, 36:1, 52:13, 61:2, 79:11, 82:2, 86:12, 113:19, 115:13, 115:17, 121:7, 136:3, 151:13, 157:15, 158:9, 163:12 Greater [1] - 84:23

greater [2] - 16:9, 94:2

113:12, 126:16 healthy [2] - 129:9, 110:16, 158:14, 112:5, 115:5, greatest [1] - 94:1 GSA [1] - 83:13 129:10 163:2 116:17, 118:11, greatly [5] - 18:10, HELD [1] - 1:11 128:23, 146:1 18:11, 99:5, 114:3, guarantee [1] - 105:8 Healthy [2] - 58:18, 162:16 guess [1] - 47:2 138:5 held [3] - 111:12, homeowner [1] greed [2] - 47:11, guests [1] - 2:17 Healy [3] - 110:14, 149:1, 159:14 33:19 159:4 gunk [1] - 109:1 114:20, 163:2 Helen [1] - 86:10 homeowners [3] hear [10] - 5:16, 6:11, hell [1] - 109:21 36:3, 81:23, 112:4 Green [21] - 14:11, guts [1] - 110:4 6:18, 95:6, 145:20, homes [11] - 20:9. 23:15, 38:15, 38:21, Hello [4] - 7:14, 9:14, guy [1] - 30:16 26:13, 30:7, 46:4, 40:11, 55:2, 85:11, 146:13, 146:23, 115:1, 151:10 guys [3] - 59:11, 53:6, 55:22, 97:16, 107:4, 111:22, 158:21, 162:18, help [17] - 8:21, 39:2, 116:15, 117:4 106:17, 115:8, 113:3, 113:15, 163:14 48:13, 57:1, 57:2, 116:23, 120:22 116:4, 123:7, 144:7, heard [6] - 27:6, 69:6, 76:17, 101:13, Н hope [11] - 22:13, 155:12, 155:17 31:15, 43:8, 94:11, 101:14, 111:4, 27:7, 29:15, 40:8, green [9] - 18:10, 97:4, 161:6 114:8, 118:19, habit [1] - 136:1 76:14, 86:5, 95:14, 30:9, 30:20, 32:7, Hearing [1] - 1:3 120:11, 130:10, habitable [1] - 63:15 95:18, 96:2, 145:22, 113:21, 114:5, hearing [13] - 3:3, 135:20, 156:8 habitats [1] - 160:14 162:20 144:13, 150:5, 159:5 3:10, 4:11, 5:5, 6:5, helped [2] - 73:6, hails [1] - 130:3 Greener [1] - 98:20 157:4 hopefully [2] - 53:16, 6:15, 6:19, 45:3, half [8] - 19:2, 66:19, greenhouse [25] -73:7, 79:2, 86:12, helpful [1] - 6:3 87:21 88:19, 100:21, hopes [2] - 10:2, 22:4, 22:15, 37:14, 110:21, 158:11 helping [2] - 37:10, 104:11, 119:9, 117:12 37:19, 48:14, 50:1, hearings [2] - 2:19, 57:4 133:13, 140:10 62:10, 62:14, 71:19, 151:13 horizontal [1] - 148:17 helpless [1] - 159:3 72:4, 73:12, 77:13, halfway [1] - 64:6 heart [2] - 72:12, horrible [2] - 94:12, helps [1] - 118:17 Hall [1] - 1:8 80:16, 87:6, 87:18, 129:11 96:10 herd [1] - 145:16 88:19, 88:21, 90:23, hall [1] - 98:19 heat [41] - 22:5, 33:23, hospital [1] - 159:10 hereby [1] - 164:6 halogens [1] - 105:18 99:2, 99:20, 102:1 34:10, 34:16, 35:6, host[1] - 2:13 Hermione [1] - 102:10 139:2, 152:1, 152:9, halved [1] - 109:6 37:16, 37:22, 39:1, high [6] - 17:3, 64:16, hostage [1] - 159:14 152:17 Hampshire [1] - 83:20 39:7, 39:9, 39:16, 86:23, 108:2, 136:5, hosting [1] - 79:2 Gregory [3] - 8:11, hand [1] - 29:5 39:21, 40:2, 40:5, 162:4 hosts [1] - 128:10 9:12, 9:14 hands [1] - 143:6 41:7, 41:9, 41:11, hot [5] - 41:21, 83:3, higher [12] - 9:21, grid [14] - 3:21, 10:22, 42:5, 57:10, 57:12, happy [2] - 129:11, 116:11, 135:18, 48:3, 48:4, 51:7, 11:13, 12:23, 40:18, 156:17 69:20, 70:23, 71:2, 157:12 53:11, 62:18, 62:21, 84:20, 101:9, hard [2] - 19:17, 132:2 71:5, 71:7, 71:20, 79:22, 85:12, 86:18, Hour [1] - 31:7 101:11, 101:13, hardwired [1] - 53:15 71:22, 72:14, 81:15, 133:3, 150:13 hours [8] - 101:13, 101:15, 101:16, 82:18, 85:1, 87:5, hardworking [1] -103:13, 103:14, highest [4] - 13:5, 101:22, 136:15, 98:13, 99:1, 115:16, 142:23 103:16, 143:6, 86:17, 127:16, 133:8 162:12 116:11, 135:14, harm [3] - 9:5, 27:14, 151:14 highlight [1] - 21:13 Grid [1] - 157:23 135:18, 136:8, 60:1 House [2] - 70:4, highlights [1] - 125:10 gripped [1] - 146:10 136:9, 136:10 harmful [2] - 8:16, 150:11 highly [7] - 60:14, heating [24] - 34:3, ground [13] - 8:21, 68:18 house [10] - 19:3, 81:12, 120:21, 41:12, 45:21, 57:9, 35:8, 35:19, 40:14, Harry [1] - 102:10 26:16, 33:22, 55:4, 140:17, 143:4, 147:7 41:13, 41:20, 41:21, 57:12, 71:1, 84:16, hazardous [1] highway [1] - 45:17 69:13, 69:21, 69:23, 41:23, 42:3, 71:2, 98:13, 98:18, 109:4, 84:7, 84:16, 135:19 160:13 Highway [2] - 23:14, 71:6, 72:1, 72:11, 115:16, 148:6, hazards [1] - 52:1 household [1] - 35:2 87:1 148:13 84:21, 85:5, 85:20, head [1] - 91:8 households [1] hired [1] - 156:12 85:23, 106:10, grounds [1] - 10:1 hiring [1] - 114:1 154:14 heading [1] - 111:1 118:11, 132:5, group [5] - 25:23, heads [2] - 60:13, historically [1] - 50:1 housekeeping [1] -135:14, 136:11, 26:23, 31:7, 39:8, 121:4 2:12 History [1] - 59:13 157:13, 161:15 81:10 health [25] - 45:13, houses [3] - 40:7, history [3] - 80:2, heating/cooling [1] -Group [1] - 75:2 51:3, 51:4, 51:8, 83:17, 85:4 96:10, 114:11 39:12 groups [3] - 27:20, housing [1] - 112:11 51:10, 51:13, 60:2, hit [2] - 86:15, 111:2 heavily [2] - 13:20, 52:5, 134:21 hubs [2] - 120:20, 68:8, 112:11, 124:7, hold [1] - 105:10 99:14 grow [1] - 143:13 155:9 125:15, 138:11, holds [1] - 137:12 heavy [4] - 8:1, 13:13, growing [2] - 14:16, 138:16, 138:18, Hudson [5] - 58:9, home [25] - 10:23. 147:9, 148:8 50:2 138:22, 140:5, 68:2, 99:7, 104:7, 15:15, 15:19, 16:12, heed [1] - 27:14 grown [3] - 11:22, 146:1, 147:5, 144:20 19:3, 26:15, 33:21, Heffner [1] - 17:18 100:17, 131:19 147:19, 150:15, huge [7] - 17:17, 42:5, 46:23, 54:17, Heinitz [3] - 95:10, growth [7] - 49:9, 153:2, 153:14, 31:19, 31:22, 85:3, 55:3, 55:17, 56:8, 158:14, 163:2 75:11, 75:17, 159:5, 160:9, 160:20 120:9, 160:3, 160:22 71:8, 75:13, 75:15, 100:21, 100:23, Heintz [4] - 97:19, healthful [1] - 122:16 Hughes [2] - 25:12, 75:18, 78:8, 103:20,

07.40	
27:18	Ili
HUGHES [1] - 27:19	illi
hull (1) - 60:19	5
human [3] - 51:12,	ſm
111:10, 160:9	im
humans [2] - 17:2,	2
140:20	ç
hundred [4] - 22:6,	im
26:20, 32:18	1
hundreds [3] - 24:12,	im
142:15, 148:3	4
Huntington [4] -	1
10:10, 33:19, 61:22,	1
95:23	1
Huntington's [1] -	1
34:6	im
hurricane [4] - 86:16,	3
87:3, 87:6, 93:19	1
Hurricane [3] - 20:6,	1
20:17, 30:6	1
hurricanes [2] - 19:12,	irr
62:23	in
HVAC [8] - 36:15,	in
37:2, 41:2, 41:8,	in
85:2, 85:17, 98:18,	in
162:1	in
hybrid [1] - 71:3	in
hydraulic [3] - 34:11,	1
IIyulaulic [3] - 34, 11,	
	•
87:13, 87:20	in
87:13, 87:20 Hydro [1] - 131:5	in t
87:13, 87:20	
87:13, 87:20 Hydro [1] - 131:5	Ę
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5	5
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5	5
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] -	5
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16,	5
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15	5 6 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] -	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15	2 6 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] -	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] -	2 6 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] -	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] -	ع 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20	ع () ( ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4	in in in in in
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10,	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3	in in in in in
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10,	t t t t t t t t t t t t t t t t t t t
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3	t t t t t t t t t t t t t t t t t t t
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3 ICF [1] - 133:17	t t t t t t t t t t t t t t t t t t t
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3 ICF [1] - 133:17 idea [3] - 27:21, 136:3, 139:16	t t t t t t t t t t t t t t t t t t t
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3 ICF [1] - 133:17 idea [3] - 27:21, 136:3, 139:16 ideal [1] - 83:7	t t t t t t t t t t t t t t t t t t t
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3 ICF [1] - 133:17 idea [3] - 27:21, 136:3, 139:16 ideal [1] - 83:7 ideas [3] - 30:13,	t t t t t t t t t t t t t t t t t t t
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3 ICF [1] - 133:17 idea [3] - 27:21, 136:3, 139:16 ideal [1] - 83:7 ideas [3] - 30:13, 30:14, 32:5	t t t t t t t t t t t t t t t t t t t
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro (1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline \\ \hline \\ ice [3] - 90:23, 128:13, 152:4\\ iceberg [4] - 93:10, 93:14, 93:18, 152:3\\ ICF [1] - 133:17\\ idea [3] - 27:21, 136:3, 139:16\\ ideal [1] - 83:7\\ ideas [3] - 30:13, 30:14, 32:5\\ identified [2] - 99:15, \\ \end{array}$	t t t t t t t t t t t t t t t t t t t
87:13, 87:20 Hydro [1] - 131:5 hydro [1] - 14:5 Hydro-Quebec [1] - 131:5 hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15 hydropower [2] - 79:19, 142:20 ice [3] - 90:23, 128:13, 152:4 iceberg [4] - 93:10, 93:14, 93:18, 152:3 ICF [1] - 133:17 idea [3] - 27:21, 136:3, 139:16 ideal [1] - 83:7 ideas [3] - 30:13, 30:14, 32:5	t im im in in in in in in in in in
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro (1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline \\ \hline \\ ice [3] - 90:23, 128:13, 152:4\\ iceberg [4] - 93:10, 93:14, 93:18, 152:3\\ ICF [1] - 133:17\\ idea [3] - 27:21, 136:3, 139:16\\ ideal [1] - 83:7\\ ideas [3] - 30:13, 30:14, 32:5\\ identified [2] - 99:15, \\ \end{array}$	t in in in in in in in in in in in in in
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline$	{ 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline \\ \hline \\ ice [3] - 90:23, 128:13, 152:3\\ ice [3] - 90:23, 128:13, 152:4\\ iceberg [4] - 93:10, 93:14, 93:18, 152:3\\ iCF [1] - 133:17\\ idea [3] - 27:21, 136:3, 139:16\\ ideal [1] - 83:7\\ ideas [3] - 30:13, 30:14, 32:5\\ identified [2] - 99:15, 100:2\\ identify [1] - 68:23\\ ignore [2] - 110:7, \\ \end{array}$	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline$	{ 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline$	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline$	2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline$	<pre></pre>
$\begin{array}{c} 87:13, 87:20\\ Hydro [1] - 131:5\\ hydro [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ Hydro-Quebec [1] - 131:5\\ hydrofracking [5] - 25:22, 26:8, 26:16, 27:11, 45:15\\ hydropower [2] - 79:19, 142:20\\ \hline \\ \hline$	**************************************

[2] - 26:9, 153:7 iness [3] - 26:11, 54:20 nagine [1] - 89:21 nmediately [4] -28:5, 63:11, 93:15, 93:17 nmigrants [1] -145:23 npact [12] - 14:13, 42:1, 75:7, 104:7, 104:16, 106:5, 124:14, 133:2, 133:18, 138:6, 140:8, 153:6 npacts [10] - 4:8, 34:21, 37:13, 99:15, 133:20, 138:16, 138:18, 138:22, 140:5, 147:20 npaired [1] - 144:6 nperative [1] - 21:13 nplement [1] - 48:9 nplies [1] - 66:22 nplore [1] - 144:18 nport [1] - 67:21 nportance [2] -12:16, 114:4 nportant [18] - 5:14, 5:22, 32:6, 36:4, 47:22, 48:14, 62:12, 65:22, 79:2, 80:17, 100:1, 111:2, 117:3, 125:4, 130:7, 133:11, 134:11, 163:14 nportantly [2] - 72:9, 93:4 nporting [2] - 92:20, 152:14 nports [1] - 130:14 nposed [1] - 13:4 npossible [1] - 92:2 npounds [1] - 104:10 npressed [1] - 30:14 nprove [4] - 35:3, 37:5, 68:8, 130:10 mproved [1] - 162:4 nprovements [3] -112:6, 113:20, 117:1 nproving [5] - 3:18, 11:11, 34:20, 34:23, 68:1 nadequate [3] - 14:1, 89:22, 138:16 nc (1) - 38:18 ncandescence [1] -105:17 ncensed [1] - 160:6 ncentive [5] - 28:15,

137:11, 157:11, 157:15, 157:18 incentives [7] - 28:6, 39:18, 52:17, 99:2, 157:22, 158:3, 162:11 incentivize [1] - 84:4 incentivizing [1] -117:18 incident [1] - 56:4 include [15] - 11:11, 16:22, 44:17, 48:19, 49:11, 63:16, 78:7, 81:17, 89:8, 126:3, 126:4, 151:3, 152:16, 162:10 included [3] - 85:10, 98:23, 118:12 includes [4] - 123:10, 126:7, 126:8, 155:15 including [8] - 10:18, 16:2, 29:22, 57:6, 72:3, 98:17, 153:1, 157:5 inclusion [1] - 52:15 income [8] - 35:2, 40:6, 40:9, 111:14, 112:3, 112:23, 113:12, 114:6 incomes [1] - 132:3 inconveniencing [1] -103:11 inconvenient [1] -125:5 incorporate [1] -83:23 incorporated [2] -138:11, 162:7 increase [16] - 11:18, 12:10, 12:15, 35:4, 35:16, 36:12, 39:20, 40:15, 40:17, 80:23, 100:8, 133:15, 140:14, 144:16, 154:2, 155:9 increased [7] - 15:7, 35:20, 62:9, 108:21, 134:6, 152:22, 153:11 increases [3] - 132:2, 132:8, 134:7 increasing [10] -18:10, 36:6, 74:7, 78:6, 87:6, 101:16, 103:18, 109:10, 117:10, 160:20 independence [2] -31:9, 154:15 Independent [2] -10:21, 131:9

independent [3] -111:20, 133:7, 162:12 Indian [6] - 12:19, 12:20, 44:23, 133:5, 133:7, 143:15 Indians [1] - 108:23 indicated [1] - 131:23 indicating [1] - 7:7 indication [1] - 149:5 indisputable [1] - 62:6 individual [2] - 83:17, 112:19 individuals [1] - 115:7 indoor [1] - 37:22 indoors [1] - 41:22 induced [1] - 127:1 industrial [1] - 92:13 industrialize [2] -90:20, 91:6 industries [2] - 52:17, 97:1 Industry [1] - 38:17 industry [28] - 11:17, 24:12, 24:15, 32:17, 39:17, 39:18, 41:2, 68:6, 68:10, 70:11, 75:14, 75:16, 75:18, 82:21, 84:12, 90:12, 92:14, 94:15, 113:21, 114:8, 115:11, 118:4, 122:23, 123:1, 123:20, 129:8, 162:9 industry's [1] - 154:10 inefficient [2] -112:11, 114:13 inertia [2] - 160:7, 161:12 infamous [1] - 86:18 inform [1] - 156:8 Information [1] -131:22 information [5] - 4:16, 60:17, 105:5, 123:19, 125:12 informational [1] -161:16 infrastructure [22] -12:14, 15:7, 20:22, 21:3, 22:23, 27:10, 29:8, 37:6, 68:22, 71:18, 72:11, 72:16, 75:13, 103:8, 120:12, 126:7, 126:17, 126:22, 126:23, 130:18, 143:17, 153:1 infrastructures [1] -28:18

ingenuity (1) - 92:3 ingredient [1] - 11:4 inherently [1] - 148:22 initiative [18] - 64:17. 68:16, 74:2, 84:23, 112:1, 113:3, 113:13, 114:4, 122:10, 123:23, 126:1, 126:6, 126:10, 126:11, 126:13, 126:20, 138:9, 155:11 Initiative [1] - 125:20 initiatives [15] - 3:17, 4:5, 4:10, 11:8, 12:3, 14:19, 68:12, 85:6, 111:2, 117:19, 120:10, 125:9, 125:11, 127:9, 155:6 injecting [1] - 17:14 injection [2] - 16:13, 16:14 injury [1] - 153:8 innovation [1] - 3:22 innovations [1] -135:8 innovative [3] - 23:13, 71:3, 117:18 input [4] - 64:13, 77:4, 125:4, 125:7 insects [1] - 26:22 inside [1] - 19:3 insight[1] - 132:15 inspecting [1] - 28:14 inspector[1] - 28:13 install [2] - 28:7, 57:13 installations [3] -37:19, 41:1, 57:6 installed [7] - 28:2, 33:22, 57:8, 64:18, 89:17, 89:20, 150:11 installers [1] - 38:19 installing [2] - 71:13, 137:3 instance [3] - 35:14, 43:11, 44:3 instead [6] - 68:6, 68:15, 77:17, 85:19, 126:9, 128:1 Institute [2] - 51:19, 52:3 instituted [1] - 88:13 instituting [1] - 151:3 instruction [2] -143:6, 143:7 insult [1] - 153:8 insurance [1] - 51:8 intact [1] - 86:21 integrated [1] - 41:20 intelligence [1] -

140-11				
149:11	Irene [1] - 63:1	60:6, 73:14, 85:14,	journeyman [1] -	Kingdom [1] - 44:4
intended [2] - 126:15,	ironic [1] - 152:3	132:14, 143:1,	143:9	kitchen (1) - 26:18
148:13	irony [1] - 95:16	160:22	Judith [2] - 1:13,	known [5] - 43:13,
intense [1] - 62:22	island [2] - 79:21,	issued [1] - 3:8	45:21	70:18, 87:22,
interdisciplinary [1] -	81:15	issues [10] - 6:8, 11:3,	Judy [6] - 2:8, 102:5,	109:12, 137:17
135:10	Island [97] - 8:14,	31:9, 79:7, 111:3,	106:21, 106:22,	knows [3] - 10:2,
Interest [1] - 75:2	10:9, 10:23, 12:13,	112:12, 121:2,	110:16, 163:2	96:12, 118:18
interest [1] - 117:19	13:1, 21:23, 24:2,	123:22, 156:5, 157:8	Julie [3] - 61:17,	Koons [2] - 142:7,
interested [2] - 79:13,	24:9, 24:13, 24:19,	items [3] - 4:2, 49:12,	66:17, 66:19	145:13
125:7	24:22, 25:23, 27:23,	98:12	July [1] - 100:15	KOONS [1] - 145:14
interesting [1] -	29:1, 34:8, 38:19,	itself [7] - 48:16,	jump [1] - 41:4	KREBS [1] - 8:12
156:15	38:20, 45:2, 45:5,	50:21, 51:9, 116:20,	jumped [1] - 132:12	Krebs [3] - 7:13, 8:11,
interests [3] - 11:2,	45:10, 45:11, 45:20,	117:4, 139:18, 152:4	June [1] - 131:14	8:12
118:17, 149:8	46:17, 47:19, 49:18,		jurisdiction [1] -	Kremer [2] - 130:3,
Intergovernmental [1]	50:13, 53:6, 56:23,	J	142:12	132:15
- 152:19	57:2, 57:3, 57:11,	0	justice [4] - 88:2, 88:3,	102.10
	59:20, 61:13, 62:1,		88:8, 111:11	· L
interim [4] - 63:17,	64:13, 64:15, 65:17,	Jacobson [2] - 18:17,	justify [1] - 61:7	· <b>L</b>
63:18, 73:23, 139:4	69:11, 69:13, 69:23,	18:18	Joomy [i] - 01.7	
intermediate (1) - 64:4	73:4, 73:21, 74:23,	Jane [2] - 47:13, 47:18	I/	Lab [1] - 137:7
intermittent [2] -	75:10, 75:15, 75:17,	January [7] - 3:5,	K	labeled [2] - 110:5,
13:13, 14:6	75:22, 75:23, 77:1,	3:11, 16:7, 16:11,		125:12
internal [3] - 100:3,	77:5, 77:8, 79:7,	131:3, 131:12, 132:7	K-Solar [1] - 155:8	Labor (1) - 29:2
103:15, 106:3	79:20, 80:2, 82:16,	Jared [3] - 1:15, 2:9,	Karin [3] - 42:8, 46:16,	labor [2] - 29:9, 30:8
international [1] -	82:23, 83:7, 84:23,	45:21	46:17	Laboratory [1] - 37:18
127:16	85:4, 89:11, 90:17,	Jay [3] - 23:6, 25:11,	Katie [1] - 16:16	laboratory [1] - 43:12
International [1] -	94:14, 97:6, 98:20,	25:15	Katrinas [1] - 93:19	lack [6] - 27:1, 49:5,
133:17	99:3, 99:11, 109:23,	Jeanne [4] - 1:21,	keenly [1] - 64:21	52:15, 72:6, 72:16,
internationally [1] -	110:19, 110:23,	31:12, 164:4, 164:15	keep [15] - 19:14,	131:15
13:19	111:16, 114:12,	Jerry [2] - 130:3,	19:15, 29:15, 30:22,	lacking [2] - 52:13,
introduce [1] - 2:6	116:18, 132:6,	132:15	34:23, 47:4, 86:5,	154:7
introduces [1] - 91:9	132:8, 132:16,	Jersey [2] - 32:10,	93:12, 120:12,	lagging [1] - 75:19
invaluable [1] - 71:4	132:21, 133:2,	90:18	125:11, 128:12,	LaGuardia [1] - 61:14
invasive [1] - 62:20	134:9, 137:17,	Jessica [4] - 114:22,	135:18, 144:20,	lake [2] - 17:17, 91:13
invest [5] - 65:20,	139:6, 139:8,	119:4, 119:5, 125:3	145:22, 146:8	Lake [2] - 17:17, 21:6
126:2, 128:1,	140:21, 141:23,	Jill [1] - 158:17	keeping [5] - 12:16,	Lakes [1] - 43:19
128:21, 137:10	142:10, 144:5,	<b>job</b> [3] - 117:17,	69:2, 112:12,	lamp [4] - 105:12,
investing [3] - 50:3,	147:11, 156:6,	144:13, 157:19	130:13, 130:19	105:14, 105:15
123:9, 124:19	156:7, 156:8,	Jobs [5] - 55:2,	Kennedy [1] - 91:23	lamps [2] - 105:4,
investment [8] -	156:11, 156:14,	111:22, 113:3,	kept [1] - 11:3	
23:22, 75:16, 75:22,	156:22, 157:4,	113:15, 116:4		106:1
77:11, 115:13,	157:19, 158:19,	jobs [22] - 24:20,	Keranen [1] - 16:16	land [8] - 66:6, 77:18,
116:14, 128:17,	159:11	29:16, 29:17, 29:20,	Kerry [2] - 93:23,	91:9, 91:11, 92:2,
134:14	Island's [7] - 66:7,	29:22, 30:10, 30:20,	151:16	134:1, 148:7, 149:2
investments [11] -	70:19, 74:13, 76:6,	30:22, 40:22, 41:1,	key [5] - 4:5, 11:4,	landlord [1] - 83:14
15:7, 39:18, 73:18,		64:20, 65:17, 75:22,	117:12, 144:23,	landscape [3] - 21:2,
73:20, 74:5, 100:7,	86:14, 145:23, 146:15	78:4, 80:18, 101:3,	145:3 kieluw 07:2	160:18, 161:20
101:10, 113:6,	146:15 Iolandors III - 11:9	113:22, 115:11,	kick [1] - 97:3	language [1] - 123:18
123:12, 159:14,	Islanders [8] - 11:9, 13:4, 20:5, 63:3	119:16, 130:19,	kids [2] - 128:15,	large [8] - 24:12,
159:23	13:4, 29:5, 63:3, 64:21, 75:5, 75:8	134:13, 149:15	128:16	26:12, 40:13, 77:19,
investor [1] - 64:12	64:21, 75:5, 75:8, 79:17	John [11] - 1:12, 2:2,	kill [2] - 91:2, 141:22	83:16, 97:12, 103:3,
invited [1] - 26:17			killed [1] - 132:11	155:2
involuntary [1] -	islands [1] - 86:21	45:21, 51:16, 56:18, 56:19, 82:13, 82:15,	kills [1] - 53:10	larger [1] - 65:2
153:12	isle [1] - 146:7	· · · ·	Kim [2] - 119:4,	largest [9] - 10:19,
involved [6] - 11:16,	issuance [3] - 3:10,	91:23, 93:23, 151:16	124:23	10:22, 38:18, 49:23,
31:9, 57:4, 104:1,	4:22, 5:2	joined [1] - 2:21	kind [7] - 34:7, 61:9,	62:3, 83:14, 88:14,
118:19, 119:6	issue [19] - 29:15,	joining [1] - 2:7	97:15, 115:11,	90:13, 99:2
involvement [1] - 88:4	34:12, 39:16, 39:22,	Jones [3] - 57:7,	137:5, 139:13,	last [13] - 18:13,
involves [1] - 121:23	51:23, 52:9, 52:18,	132:11, 149:14	161:16	41:17, 42:20, 52:23,
	53:21, 54:4, 54:15,	Josh [1] - 160:8	kinds [3] - 108:23,	61:23, 65:15, 69:4,
involving [2] - 48:10,	55:9, 55:14, 56:14,	journal [1] - 16:14	•• •	

(

.....

141:9, 148:11, 155:23, 161:23 late [2] - 73:8, 89:18 lately [1] - 137:20 latest [1] - 108:15 latter [1] - 14:8 laudable [1] - 155:5 launch [1] - 23:15 launching [2] - 92:1, 155:7 Laurie [4] - 95:9, 110:16, 158:14, 163:2 Law [1] - 3:9 law [1] - 53:19 Laws [1] - 130:5 laws [1] - 17:19 lay [1] - 63:10 lays [1] - 3:17 lead [17] - 15:4, 17:20, 18:6, 18:10, 20:3, 20:14, 22:1, 22:9, 22:10, 23:1, 56:13, 80:12, 80:13, 81:1, 148:12, 155:18 leaded [1] - 147:9 leader [15] - 9:20, 20:12, 23:16, 44:3, 63:5, 70:9, 74:17, 74:23, 76:18, 79:15, 82:6, 120:4, 128:2, 149:10, 149:12 leaders [6] - 80:21, 110:4, 129:7, 137:18, 149:18, 155:20 leadership [6] - 23:12, 76:1, 101:18, 102:2, 150:6, 152:7 leading [5] - 13:16, 49:14, 62:19, 120:3, 154:23 leads [4] - 32:16, 93:2, 121:11, 137:21 leak [1] - 55:4 leaking [1] - 68:18 leaks [3] - 38:3, 68:11, 160:15 learn [4] - 7:20, 13:12, 57:5 learned [3] - 60:19, 133:2, 148:12 lease [1] - 28:10 least [5] - 14:9, 16:2, 40:1, 52:8, 105:16 leave [3] - 34:12, 56:10, 82:7 leaves [1] - 157:14 leaving [1] - 129:5 lee [1] - 31:11

Lee [2] - 1:13, 2:8 LEED [3] - 33:21, 38:15, 82:1 left [4] - 2:15, 25:23, 129:12, 153:9 legacy [1] - 155:17 Legal [2] - 38:5, 56:4 legislation [2] - 40:7, 84:1 legislative [2] - 79:9, 80:21 legislator [1] - 9:17 legislature [1] -109:23 lengthy [1] - 89:15 less [15] - 13:18, 37:3, 37:8, 40:20, 71:11, 72:10, 72:15, 100:11, 100:21, 103:20, 109:16, 116:15, 117:15, 134:22, 161:11 lessened [1] - 147:20 lessons [1] - 133:2 letter [1] - 128:6 level [9] - 13:9, 53:11, 54:5, 54:11, 60:1, 86:17, 93:21, 116:23. 141:6 levels [12] - 22:1, 37:9, 41:18, 53:8, 54:19, 64:7, 87:6, 91:1, 104:8, 125:17, 127:7 LEWIS [1] - 51:17 Lewis [4] - 47:13, 51:16, 51:18, 98:22 LI [1] - 84:12 Liberty [2] - 90:17, 91:5 license [1] - 133:4 lie [1] - 161:3 lies [2] - 30:9, 154:10 life [15] - 11:5, 41:19, 46:5, 46:18, 53:17, 60:7, 86:14, 92:23, 94:16, 96:3, 96:6, 112:22, 141:17, 141:19, 160:20 lifecycle [1] - 71:12 lifeline [1] - 29:23 lifelong [3] - 81:9, 98:6, 147:7 lifespans [1] - 37:21 lifestyle [1] - 138:6 lifestyles [1] - 159:6 light [2] - 100:23, 150:16 limit [2] - 95:6, 131:4 limiting [1] - 152:16 limits [1] - 150:13

Lind [3] - 42:8, 46:16, 46:17 Lindenhurst [3] -86:15, 86:23, 87:2 line [6] - 22:17, 60:17, 84:8, 126:21, 128:23, 149:23 lines [6] - 14:10, 24:3, 29:6, 30:5, 58:20, 162:14 link [1] - 19:8 lion's [1] - 49:7 lip [2] - 124:3, 124:19 LIPA [5] - 28:8, 44:20, 64:12, 65:19, 157:10 LIPA's [1] - 132:20 LIPC [5] - 111:7, 111:12, 111:18, 112:14, 114:11 LIPC's [1] - 112:1 liquid [3] - 16:14, 69:1, 138:20 liquified [2] - 20:5, 21:7 Lisa [2] - 10:14, 15:1 list [2] - 59:3, 158:15 listen [1] - 31:13 listening [1] - 29:4 literally [1] - 112:12 literature [2] - 108:11, 108:17 littered [1] - 21:3 live [7] - 8:7, 28:12, 38:15, 79:20, 95:12, 124:17, 145:16 lived [5] - 8:13, 76:8, 86:14, 96:5, 147:8 lives [1] - 15:11 living [6] - 53:6, 62:8, 87:3, 112:23, 132:21, 138:23 LNG [10] - 22:21, 58:9, 67:22, 90:20, 91:7, 92:12, 122:20, 127:14, 146:5, 150:1 load [5] - 12:22, 14:4, 36:19, 84:19, 144:9 loans [1] - 128:12 Local [1] - 142:12 local [11] - 24:12, 26:4, 27:4, 41:1, 67:14, 73:1, 111:9, 114:14, 134:14, 144:1, 153:6 localized [1] - 144:21 located [4] - 10:10, 70:18, 86:16, 133:13 location [1] - 122:20 LOCATION [1] - 1:8 locations [1] - 125:5

lockstep [1] - 68:6 lofty [1] - 146:4 log [1] - 159:18 lone [1] - 137:4 look [19] - 14:15, 30:13, 30:16, 35:21, 51:11, 58:19, 59:2, 59:8, 60:5, 61:4, 85:19, 97:8, 106:5, 109:14, 140:3, 150:18, 156:17, 156:21, 159:20 looked [1] - 85:18 looking [8] - 43:6, 51:12, 95:15, 128:19, 136:6, 136:23, 140:10 looks [2] - 123:19, 159:18 loopholes [1] - 47:23 losing [1] - 128:23 lost [1] - 13:1 Lou [2] - 15:1, 18:23 Louisiana [1] - 95:13 love [5] - 8:13, 8:14, 46:20, 145:4, 146:20 low [12] - 41:16, 41:20, 41:22, 41:23, 53:8, 54:11, 71:12, 99:11, 111:14, 112:3, 113:12, 114:6 lower [5] - 35:18, 54:19, 73:22, 112:23, 150:8 lowering [1] - 88:17 lowest [1] - 50:17 lucky [2] - 95:11, 95:23 lucrative [1] - 159:6 lumens [3] - 105:6, 105:7, 105:16 luminosity [1] -105:13 Lupinacci [3] - 9:16, 9:19, 10:6 Lupinacci's [1] - 10:8 lush [1] - 127:20 lying [1] - 26:21 Lynn [3] - 78:16, 81:6, 81:8 Μ MacArthur [1] - 70:19 mad [1] - 109:21

Magazine [2] - 94:13,

magnitude [8] - 15:14,

magic [1] - 106:17

109:3

16:9, 16:11, 98:10, 101:21 magnum (1] - 83:4 Main [1] - 161:6 main [4] - 39:21, 51:22, 72:5, 120:20 maintain [2] - 20:19, 105:13 maintained [2] -102:13, 106:11 maintenance [2] -29:18, 41:22 major [16] - 12:19, 13:1, 31:1, 34:19, 39:4, 39:22, 65:1, 72:17, 101:10, 101:17, 105:22, 120:19, 153:2, 153:5, 154:17, 155:6 Malloy [2] - 51:19, 52:3 Malverne [2] - 98:1, 98:14 man [5] - 53:1, 91:22, 92:2, 92:3, 132:21 managed [1] - 132:9 Manager [1] - 76:23 mandate [1] - 59:19 mandated [2] - 85:21, 150:9 mandates [2] - 63:16, 139:14 mandatory [1] - 64:11 Manhattan [2] - 21:5, 81:11 manmade [1] - 62:8 manner [1] - 103:9 Manorhaven [1] - 11:6 manufacture [2] -105:6, 105:8 manufacturing [2] -75:12, 149:15 Marcellus [2] - 87:16, 90:4 March [2] - 1:6, 25:18 Marielle [2] - 110:14, 110:18 mariner [1] - 60:9 Mario [2] - 57:2, 58:11 Maritime [1] - 60:9 Mark [3] - 18:14, 18:16, 18:18 marked [1] - 2:14 market [8] - 3:22, 39:13, 100:11, 117:10, 117:14, 118:17, 118:18, 134:9 marketed [1] - 126:5

15:20, 16:2, 16:6,

marketing [1] - 113:19 markets [2] - 68:3, 127:21 marks [1] - 122:2 Maromme [1] - 2:21 marriage [1] - 40:20 Marriele [1] - 107:1 Marrome [3] - 106:21, 107:1, 107:3 MARROME [1] - 107:3 marshals [1] - 55:19 Martha's [1] - 89:9 Mary [1] - 86:10 Maryland [4] - 32:10, 75:20, 83:21, 84:13 mass [6] - 94:3, 106:5, 106:6, 117:16, 151:17, 151:18 Massachusetts [2] -75:20, 83:20 Massapequa [1] - 19:1 massive [8] - 20:20, 22:3, 80:3, 120:22, 122:12, 150:14, 152:14, 152:23 match [3] - 65:3, 98:9, 101:21 materials [2] - 40:4, 137:1 matter [4] - 9:4, 122:13, 124:4, 159:20 Matthew [3] - 9:12, 10:14, 10:16 maximize [1] - 135:14 Mayer [2] - 58:13, 58:15 MAYER [1] - 58:17 mayor [1] - 98:14 Mayor [1] - 66:12 mean [3] - 32:15, 103:9, 108:13 meaning [1] - 41:10 meaningful [5] - 4:2, 44:18, 64:1, 64:2, 88:4 Means [1] - 130:4 means [5] - 23:21, 86:12, 126:3, 147:8, 161:2 meant [1] - 48:4 meanwhile [1] - 34:3 measure [2] - 35:11, 49:12 measures [1] - 112:16 measuring [1] -109:19 mechanics [1] -142:16 meet [18] - 14:1,

14:16, 48:13, 63:18, 64:3, 80:19, 87:11, 88:10, 89:3, 89:12, 89:22, 90:1, 131:5, 139:4, 143:5, 143:12, 152:13, 162:18 Meeting [1] - 163:20 meeting [3] - 10:7, 87:10, 139:19 meetings [1] - 10:9 megawatt [1] - 36:20 megawatts (9) -12:21, 44:4, 44:5, 44:7, 44:9, 45:4, 131:11, 131:13 melt [1] - 90:23 melting [1] - 152:4 Melville [1] - 1:9 member [10] - 9:20, 9:21, 25:16, 27:19, 34:8, 38:20, 58:17, 81:9, 82:22, 107:4 members [6] - 29:13, 30:5, 42:15, 66:19, 73:2, 90:12 membership (6) -30:3, 115:5, 115:18, 116:4, 118:18, 142:14 mention [5] - 55:11, 116:15, 125:11, 138:8, 157:7 mentioned [13] -40:19, 68:14, 69:16, 74:14, 97:5, 98:12, 98:21, 99:8, 112:20, 148:23, 156:10, 157:3, 160:11 mentioning [1] - 118:7 mercy [1] - 130:22 mere [1] - 15:21 merely [1] - 28:9 Merrick m - 11:5 mess [1] - 128:10 metal [1] - 142:15 metaphor [1] - 93:18 meter [1] - 89:20 methane [17] - 16:22, 22:3, 22:4, 26:19, 57:22, 61:6, 68:14, 68:18, 68:20, 90:23, 121:6, 121:7, 122:11, 148:1, 148:5, 148:17, 152:19 methods [1] - 159:4 metric [4] - 35:16, 35:23, 37:20, 99:23 metrics [3] - 4:3,

49:12, 52:12 metropolitan [2] -147:8, 147:17 Meyer [3] - 78:16, 81:6, 81:8 MEYER [1] - 81:8 microphone [1] - 5:18 middle [6] - 24:7, 24:9, 69:23, 127:20, 130:18, 153:4 middle-class [1] -130:18 Middletown [1] -127:18 Midwest [1] - 10:21 might [7] - 92:17, 103:5, 103:9, 109:10, 162:10, 162:13, 162:16 migraines [1] - 55:7 migration [1] - 148:5 Mike [2] - 97:21, 97:23 Mile [2] - 56:23, 57:3 miles [10] - 15:14, 15:17, 15:19, 15:21, 61:22, 65:6, 94:7, 133:13, 161:11, 161:13 millennia [1] - 57:23 millennium [1] - 57:22 million [7] - 37:20. 66:19, 99:22. 100:10.100:12 133:23, 134:14 millions [3] - 17:10, 59:10, 73:2 Millstone [2] - 94:8, 94:16 millstone's [1] - 94:12 mind [3] - 30:22, 88:5, 139:1 mindless [1] - 159:4 minimal [2] - 28:10, 105:8 minimized [1] -159:22 minimum [1] - 106:2 mining [2] - 87:22, 90:4 Minisink [5] - 21:4, 120:15, 127:19, 153:3, 153:8 minorities [1] - 114:7 minute [3] - 6:12, 45:8, 69:10 minutes [4] - 6:15, 58:5, 86:6, 121:13 misinformation [1] -112:10 misrepresentation [1]

- 162:16 misses [1] - 101:17 missing [2] - 48:3, 108:6 mission [2] - 4:10, 77:6 missions [1] - 133:10 Mississippi [1] - 95:13 mistakes [1] - 13:12 MIT [1] - 138:13 mitigate [1] - 87:18 mix [2] - 64:19, 66:3 mobilizing [1] - 84:12 model [2] - 49:19, 78:12 models [2] - 113:18, 125:20 moderate [2] - 111:14, 112:3 modernization [1] -126:8 modernize [1] - 126:6 modifying [1] - 14:21 molecular [1] - 62:15 moment [1] - 102:7 momentum [1] - 100:6 Monday [1] - 8:4 monetary [1] - 138:22 money [24] - 40:1, 47:11, 49:10, 59:5, 77:16, 77:23, 80:21, 81:11, 91:5, 98:15, 107:7, 107:10, 107:22, 107:23, 108:7, 109:19, 122:3, 123:17, 124:1, 124:19, 137:9, 137:14 138:21 monitor [4] - 53:12, 54:1, 54:7, 125:17 monitors [3] - 54:19, 55:23, 56:1 monoxide [12] - 51:23, 53:9, 53:10, 54:3, 54:11, 54:18, 55:4, 55:16, 56:10, 56:14, 57:19, 71:11 monster [1] - 19:12 Montauk [11] - 11:6, 65:6, 74:21, 87:1, 90:10, 90:13, 90:16, 91:16, 93:16, 94:8, 149:15 month [6] - 36:8, 69:5, 69:22, 105:8, 132:13 month-to-month [1] -36:8 monthly [2] - 35:10, 36:9

months [5] - 7:18 10:5, 65:15, 75:1, 89:18 Montreal [1] - 131:5 moon [4] - 32:20, 32:21, 92:2, 92:4 moratorium [1] -87:20 morning [2] - 15:20, 26:1 most [11] - 24:10, 39:12, 42:4, 48:14, 74:13, 93:4, 124:2, 124:12, 136:23, 151:18, 156:4 mostly [4] - 17:14, 62:13, 81:11, 116:4 mother [2] - 54:23, 147:15 motors [1] - 106:3 Motown [1] - 101:20 motto [1] - 59:23 Mountainkeeper [1] -151:11 mouths [1] - 80:22 Move [1] - 107:4 move [10] - 15:6, 45:8, 74:21; 75:8, 76:9, 107:17, 123:5, 150:4, 159:16, 163:13 moved [3] - 44:21, 69:11, 147:17 movement [3] - 29:10, 30:8, 149:12 MoveOn.org [1] -25:16 movie [2] - 52:4, 148:10 moving [14] - 18:6, 63:11, 66:6, 73:19, 75:20, 84:6, 106:9, 113:18, 118:7, 120:4, 121:19, 122:16, 122:22, 124:18 MR [27] - 7:14, 9:14, 19:1, 19:21, 23:7, 25:13, 28:23, 31:5, 38:14, 51:17, 56:19, 61:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 95:11, 97:22, 102:6, 107:3, 115:1, 129:17, 135:4, 138:2, 142:8 MS [21] - 8:12, 15:2, 18:18, 27:19, 33:16, 42:10, 46:16, 47:14, 58:17, 66:18, 81:8,

	· · · · · · · · · · · · · · · · · · ·			
86:11, 110:18,	80:14, 93:3, 146:10,	102:18, 105:10,	131:10, 137:3,	119:22, 120:2,
119:5, 125:2,	150:12	106:4, 106:7,	155:11, 158:13	120:14, 121:16
145:14, 146:19,	nation's [1] - 62:2	106:15, 106:18,	New [249] - 1:9, 1:15,	123:16, 124:9,
				125:6, 125:7,
151:10, 156:3,	National [4] - 37:18,	113:4, 113:8,	2:3, 8:2, 8:6, 8:13,	
158:15, 158:17	62:2, 98:3, 157:23	114:15, 121:5,	9:3, 9:10, 10:11,	125:13, 126:19,
MTA [1] - 44:20	national [4] - 19:22,	121:19, 121:22,	11:10, 11:20, 12:6,	126:21, 127:19
municipal [1] - 116:8	35:2, 43:12, 141:6	122:7, 122:18,	12:9, 12:12, 12:19,	127:20, 128:19,
municipalities [5] -	nationwide [2] -	124:1, 124:2,	15:4, 15:6, 18:1,	129:1, 129:18,
49:17, 50:11, 52:18,	66:20, 107:20	124:11, 124:18,	18:2, 18:7, 18:9,	129:20, 129:23,
154:14, 158:1	Natural [1] - 59:12	124:19, 126:16,	18:20, 19:14, 19:15,	130:5, 130:13,
		134:17, 135:8,	20:3, 20:7, 20:14,	130:14, 131:6,
Museum [1] - 59:12	natural [49] - 12:12,			131:9, 131:10,
<b>must</b> [40] - 13:9, 15:6,	12:15, 14:5, 14:7,	137:8, 139:15,	20:19, 21:2, 22:10,	
15:7, 17:14, 18:6,	20:5, 21:7, 21:23,	143:9, 143:12,	22:16, 22:17, 22:20,	132:14, 133:1,
22:15, 27:8, 27:9,	22:2, 22:19, 34:12,	148:6, 151:20,	23:3, 23:14, 29:22,	133:5, 133:11,
27:14, 38:8, 48:9,	38:3, 39:7, 45:11,	155:2, 160:3,	30:19, 31:2, 32:9,	133:23, 134:9,
48:22, 49:3, 49:11,	45:14, 45:16, 57:18,	160:23, 161:1,	32:16, 34:17, 34:23,	136:21, 137:21,
56:9, 63:6, 63:10,	66:23, 68:16, 69:3,	162:15	37:15, 38:7, 39:2,	139:2, 139:15,
63:14, 63:16, 64:11,	71:17, 87:20, 120:7,	needed [6] - 24:6,	39:3, 42:13, 42:16,	140:1, 140:12,
65:11, 65:22, 66:8,		113:9, 133:20,	43:10, 43:11, 43:13,	141:13, 142:13,
	121:10, 122:21,	136:4, 148:4, 150:9	43:17, 44:18, 44:19,	142:16, 142:19,
67:7, 67:8, 68:20,	123:11, 123:20,			143:11, 143:19,
74:7, 74:17, 81:19,	124:5, 125:18,	needs [31] - 14:1,	45:16, 45:23, 46:20,	
103:2, 103:23,	126:4, 127:18,	14:15, 14:16, 24:1,	49:23, 50:3, 50:23,	144:5, 144:7, 144:9
114:9, 123:15,	127:23, 131:16,	28:6, 43:9, 43:15,	55:2, 56:13, 58:6,	144:13, 144:14,
125:21, 136:8,	131:19, 132:1,	46:11, 52:12, 77:10,	58:8, 59:2, 59:18,	144:16, 144:18,
145:22, 146:2,	132:6, 133:15,	77:15, 77:17, 78:7,	59:20, 60:8, 61:1,	144:21, 144:22,
149:18, 152:6,	133:19, 134:6,	85:12, 89:9, 113:5,	61:10, 63:4, 63:5,	145:6, 145:8, 145:9
160:16	134:8, 137:14,	115:20, 121:8,	64:17, 64:19, 66:2,	147:1, 147:2, 147:3
		122:12, 132:5,	66:12, 66:21, 67:5,	147:7, 147:17,
mutual [2] - 159:18,	138:20, 140:4,			
159:20	142:21, 147:22,	134:19, 134:22,	67:17, 67:20, 68:1,	149:9, 149:13,
myopic [3] - 140:22,	142:21, 147:22, 147:23, 148:9,	139:16, 146:13,	68:4, 68:14, 68:20,	149:16, 150:3,
		139:16, 146:13, 146:15, 149:21,	68:4, 68:14, 68:20, 69:7, 69:11, 70:19,	149:16, 150:3, 150:23, 151:2,
<b>myopic լ</b> з] - 140:22, 140:23, 141:1	147:23, 148:9,	139:16, 146:13,	68:4, 68:14, 68:20,	149:16, 150:3,
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] -	147:23, 148:9, 149:22, 150:5, 157:23	139:16, 146:13, 146:15, 149:21,	68:4, 68:14, 68:20, 69:7, 69:11, 70:19,	149:16, 150:3, 150:23, 151:2,
<b>myopic լ</b> з] - 140:22, 140:23, 141:1	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1] - 57:8	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1) - 155:16	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11,
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9	147:23, 148:9, 149:22, 150:5, 157:23 Nature [1] - 57:8 navigate [1] - 158:3	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1) - 155:16 neglects (1) - 50:22	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7,
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] -	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1) - 57:8 navigate (1) - 158:3 Navy (1) - 94:20	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1) - 155:16 neglects (1) - 50:22 negotiate (1) - 80:19	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164:
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1) - 57:8 navigate (1) - 158:3 Navy (1) - 94:20 naysayers (1) - 133:23	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1) - 155:16 neglects (1) - 50:22 negotiate (1) - 80:19 neighborhoods (1) -	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: <b>news</b> [2] - 46:1,
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 <b>N</b>	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1) - 57:8 navigate (1) - 158:3 Navy (1) - 94:20 naysayers (1) - 133:23 Neal (4) - 47:13,	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1) - 155:16 neglects (1) - 50:22 negotiate (1) - 80:19 neighborhoods (1) - 20:10	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 <b>N</b> name [38] - 2:2, 5:6,	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1) - 57:8 navigate (1) - 158:3 Navy (1) - 94:20 naysayers (1) - 133:23	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] -	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 <b>N</b> name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14,	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1) - 57:8 navigate (1) - 158:3 Navy (1) - 94:20 naysayers (1) - 133:23 Neal (4) - 47:13,	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18,
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [39] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7,	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1] - 57:8 navigate (1] - 158:3 Navy (1] - 94:20 naysayers (1] - 133:23 Neal [4] - 47:13, 51:16, 51:17, 98:21	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] -	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18, 15:20, 48:22, 50:19
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 <b>N</b> name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14,	147:23, 148:9, 149:22, 150:5, 157:23 Nature [1] - 57:8 navigate [1] - 158:3 Navy [1] - 94:20 naysayers [1] - 133:23 Neal [4] - 47:13, 51:16, 51:17, 98:21 near [4] - 4:2, 17:15, 17:17, 46:23	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6,	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18,
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [39] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7,	$147:23, 148:9, \\149:22, 150:5, \\157:23$ Nature [1] - 57:8 navigate [1] - 158:3 Navy [1] - 94:20 naysayers [1] - 133:23 Neal [4] - 47:13, 51:16, 51:17, 98:21 near [4] - 4:2, 17:15, 17:17, 46:23 nearby [1] - 18:2	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18, 15:20, 48:22, 50:19
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5,	$147:23, 148:9, \\149:22, 150:5, \\157:23$ Nature [1] - 57:8 navigate [1] - 158:3 Navy [1] - 94:20 naysayers [1] - 133:23 Neal [4] - 47:13, 51:16, 51:17, 98:21 near [4] - 4:2, 17:15, 17:17, 46:23 nearby [1] - 18:2 nearing [1] - 89:5	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22 Nelson (1] - 53:1	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18, 15:20, 48:22, 50:19 64:15, 76:5, 87:2, 113:2, 128:22,
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 <b>N</b> name [30] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1,	$147:23, 148:9, \\149:22, 150:5, \\157:23$ Nature [1] - 57:8 navigate [1] - 158:3 Navy [1] - 94:20 naysayers [1] - 133:23 Neal [4] - 47:13, 51:16, 51:17, 98:21 near [4] - 4:2, 17:15, 17:17, 46:23 nearby [1] - 18:2 nearing [1] - 89:5 nearly [5] - 41:12,	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22 Nelson (1] - 53:1 NESPA (1] - 84:13	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18, 15:20, 48:22, 50:15 64:15, 76:5, 87:2, 113:2, 128:22, 137:23, 152:21
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 <b>N</b> name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ \end{array}$	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22 Nelson (1] - 53:1 NESPA (1] - 84:13 net [2] - 106:7, 130:16	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18, 15:20, 48:22, 50:19 64:15, 76:5, 87:2, 113:2, 128:22, 137:23, 152:21 nice [2] - 48:3, 109:11
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17,	$147:23, 148:9, \\149:22, 150:5, \\157:23$ Nature [1] - 57:8 navigate [1] - 158:3 Navy [1] - 94:20 naysayers [1] - 133:23 Neal [4] - 47:13, 51:16, 51:17, 98:21 near [4] - 4:2, 17:15, 17:17, 46:23 nearby [1] - 18:2 nearing [1] - 89:5 nearly [5] - 41:12,	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22 Nelson (1] - 53:1 NESPA (1] - 84:13 net [2] - 106:7, 130:16 Netherlands (1] - 44:6	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ \end{array}$	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22 Nelson (1] - 53:1 NESPA (1] - 53:1 NESPA (1] - 84:13 net [2] - 106:7, 130:16 Netherlands (1] - 44:6 neutral (1] - 118:8	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5,	$\begin{array}{c} 149:16,\ 150:3,\\ 150:23,\ 151:2,\\ 152:6,\ 152:11,\\ 153:19,\ 154:5,\\ 154:11,\ 155:7,\\ 155:8,\ 155:14,\ 164:\\ news\ [2]-46:1,\\ 162:12\\ \textbf{Newsday}\ [1]-132:10\\ next\ [11]-15:18,\\ 15:20,\ 48:22,\ 50:18\\ 64:15,\ 76:5,\ 87:2,\\ 113:2,\ 128:22,\\ 137:23,\ 152:21\\ \textbf{nice}\ [2]-48:3,\ 109:1\\ \textbf{night}\ [3]-50:16,\\ 135:19,\ 136:14\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \end{array}$	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22 Nelson (1] - 53:1 NESPA (1] - 84:13 net [2] - 106:7, 130:16 Netherlands (1] - 44:6	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:1\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:2:28\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 42, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary [3] - 50:4,\\ 102:16, 103:8\\ \hline \end{array}$	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate (1] - 155:16 neglects (1] - 50:22 negotiate (1] - 80:19 neighborhoods (1] - 20:10 neighboring (1] - 97:14 neighbors (3] - 19:6, 121:17, 128:22 Nelson (1] - 53:1 NESPA (1] - 53:1 NESPA (1] - 84:13 net [2] - 106:7, 130:16 Netherlands (1] - 44:6 neutral (1] - 118:8	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7,	$\begin{array}{c} 149:16,\ 150:3,\\ 150:23,\ 151:2,\\ 152:6,\ 152:11,\\ 153:19,\ 154:5,\\ 154:11,\ 155:7,\\ 155:8,\ 155:14,\ 164:\\ news\ [2]-46:1,\\ 162:12\\ \textbf{Newsday\ [1]-132:10}\\ next\ [11]-15:18,\\ 15:20,\ 48:22,\ 50:19\\ 64:15,\ 76:5,\ 87:2,\\ 113:2,\ 128:22,\\ 137:23,\ 152:21\\ nice\ [2]-48:3,\ 109:1\\ night\ [3]-50:16,\\ 135:19,\ 136:14\\ nightmare\ [2]-25:21\\ 94:11\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 42, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary [3] - 50:4,\\ 102:16, 103:8\\ \hline Neck [1] - 145:15\\ \hline \end{array}$	$\begin{array}{c} 139:16, 146:13,\\ 146:15, 149:21,\\ 150:3, 150:6, 152:13\\ \\ negate (1] - 155:16\\ \\ neglects (1] - 50:22\\ \\ negotiate (1] - 80:19\\ \\ neighborhoods (1] - \\ 20:10\\ \\ neighboring (1] - \\ 97:14\\ \\ neighbors (3] - 19:6,\\ 121:17, 128:22\\ \\ \\ Nelson (1] - 53:1\\ \\ NESPA (1] - 84:13\\ \\ net [2] - 106:7, 130:16\\ \\ \\ Netherlands (1] - 44:6\\ \\ neutral (1] - 118:8\\ \\ never (5] - 16:3, 17:23,\\ 55:4, 130:22, 147:18\\ \end{array}$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news $[2] - 46:1,$ 162:12 Newsday $[1] - 132:10$ next $[11] - 15:18,$ 15:20, 48:22, 50:19 64:15, 76:5, 87:2, 113:2, 128:22, 137:23, 152:21 nice $[2] - 48:3, 109:11$ night $[3] - 50:16,$ 135:19, 136:14 nightmare $[2] - 25:27$ 94:11
<b>N</b> <b>name</b> [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary [3] - 50:4,\\ 102:16, 103:8\\ \hline Neck [1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\negate (1] - 155:16 \\neglects (1] - 50:22 \\negotiate (1] - 80:19 \\neighborhoods (1] - 20:10 \\neighboring (1] - 97:14 \\neighbors (3] - 19:6, \\121:17, 128:22 \\Nelson (1] - 53:1 \\NESPA (1] - 84:13 \\net [2] - 106:7, 130:16 \\Netherlands (1] - 44:6 \\neutral (1] - 118:8 \\never (5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\NEW (1] - 1:1 \\ \end{tabular}$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news $[2] - 46:1,$ 162:12 Newsday $[1] - 132:10$ next $[11] - 15:18,$ 15:20, 48:22, 50:19 64:15, 76:5, 87:2, 113:2, 128:22, 137:23, 152:21 nice $[2] - 48:3, 109:11$ night $[3] - 50:16,$ 135:19, 136:14 nightmare $[2] - 25:27$ 94:11
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary [3] - 50:4,\\ 102:16, 103:8\\ \hline Neck [1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\negate (1] - 155:16 \\neglects (1] - 50:22 \\negotiate (1] - 80:19 \\neighborhoods (1] - 20:10 \\neighboring (1] - 97:14 \\neighbors (3] - 19:6, \\121:17, 128:22 \\Nelson (1] - 53:1 \\NESPA (1] - 84:13 \\net [2] - 106:7, 130:16 \\Netherlands (1] - 44:6 \\neutral (1] - 118:8 \\never (5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\NEW (1] - 1:1 \\new (32] - 17:21, 25:4, \\ \end {tabular}$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:22\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature [1] - 57:8\\ \hline navigate [1] - 158:3\\ \hline Navy [1] - 94:20\\ \hline naysayers [1] - 133:23\\ \hline Neal [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near [4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby [1] - 18:2\\ \hline nearing [1] - 89:5\\ \hline nearly [5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary [3] - 50:4,\\ 102:16, 103:8\\ \hline Neck [1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ \hline \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\negate [1] - 155:16 \\neglects [1] - 50:22 \\negotiate [1] - 80:19 \\neighborhoods [1] - 20:10 \\neighboring [1] - 97:14 \\neighbors [3] - 19:6, \\121:17, 128:22 \\Nelson [1] - 53:1 \\NESPA [1] - 84:13 \\net [2] - 106:7, 130:16 \\Netherlands [1] - 44:6 \\neutral [1] - 118:8 \\never [5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\NEW [1] - 1:1 \\new [32] - 17:21, 25:4, \\25:9, 30:10, 30:13, \\ \end tabular (1) - 130 \\net [3] - 10, 30:13, \\\end tabular (1) - 130 \\net [3] - 10, 30:13, \\\end tabular (1) - 10, 30:13, \\\e$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:22\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ noise [2] - 17:2, 27:5\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1) - 57:8\\ \hline navigate (1) - 158:3\\ \hline Navy (1) - 94:20\\ \hline naysayers (1) - 133:23\\ \hline Neal (4) - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4) - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4) - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1) - 18:2\\ \hline nearing (1) - 89:5\\ \hline nearly (5) - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3) - 50:4,\\ 102:16, 103:8\\ \hline Neck (1) - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\ negate (1] - 155:16 \\ neglects (1] - 50:22 \\ negotiate (1] - 80:19 \\ neighborhoods (1] - 20:10 \\ neighborhoods (1] - 20:10 \\ neighboring (1] - 97:14 \\ neighbors (3] - 19:6, \\121:17, 128:22 \\ Nelson (1] - 53:1 \\ NESPA (1] - 84:13 \\ net [2] - 106:7, 130:16 \\ Netherlands (1] - 44:6 \\ neutral (1] - 118:8 \\ never (5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\ NEW (1] - 1:1 \\ new [32] - 17:21, 25:4, \\25:9, 30:10, 30:13, \\ 30:20, 36:21, 43:21, \\ \end tabular (1) - 130 \\ \end tabular (1) - 130 \\ \end tabular (1) - 130 \\ \end tabular (1) - 100 $	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \mbox{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ \mbox{nice [2] - 48:3, 109:11}\\ \mbox{night [3] - 50:16,\\ 135:19, 136:14\\ \mbox{nightmare [2] - 25:22}\\ 94:11\\ \mbox{nine [2] - 133:9, 138:\\ \mbox{nobody [1] - 45:23\\ \mbox{noise [2] - 17:2, 27:5]}\\ \mbox{nominal [1] - 105:6\\ \end{tabular}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1] - 57:8\\ \hline navigate (1] - 57:8\\ \hline navigate (1] - 158:3\\ \hline Navy (1] - 94:20\\ \hline naysayers (1] - 133:23\\ \hline Neal (4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1] - 18:2\\ \hline nearing (1] - 89:5\\ \hline nearly (5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3] - 50:4,\\ 102:16, 103:8\\ \hline Neck (1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ 41:9, 43:21, 44:15,\\ \hline \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\ negate (1] - 155:16 \\ neglects (1] - 50:22 \\ negotiate (1] - 80:19 \\ neighborhoods (1] - 20:10 \\ neighborhoods (1] - 20:10 \\ neighboring (1] - 97:14 \\ neighbors (3] - 19:6, \\121:17, 128:22 \\ Nelson (1] - 53:1 \\ NESPA (1] - 84:13 \\ net [2] - 106:7, 130:16 \\ Netherlands (1] - 44:6 \\ neutral (1] - 118:8 \\ never [5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\ NEW (1] - 1:1 \\ new [32] - 17:21, 25:4, \\25:9, 30:10, 30:13, \\30:20, 36:21, 43:21, \\44:14, 44:15, 45:2, \\ \end{cases}$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:22\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ noise [2] - 17:2, 27:5\\ nominal [1] - 105:6\\ non [4] - 19:23, 34:9,\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6, 89:9	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1) - 57:8\\ \hline navigate (1) - 158:3\\ \hline Navy (1) - 94:20\\ \hline naysayers (1) - 133:23\\ \hline Neal (4) - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4) - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4) - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1) - 18:2\\ \hline nearing (1) - 89:5\\ \hline nearly (5) - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3) - 50:4,\\ 102:16, 103:8\\ \hline Neck (1) - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\ negate (1] - 155:16 \\ neglects (1] - 50:22 \\ negotiate (1] - 80:19 \\ neighborhoods (1] - 20:10 \\ neighborhoods (1] - 20:10 \\ neighboring (1] - 97:14 \\ neighbors (3] - 19:6, \\121:17, 128:22 \\ Nelson (1] - 53:1 \\ NESPA (1] - 84:13 \\ net [2] - 106:7, 130:16 \\ Netherlands (1] - 44:6 \\ neutral (1] - 118:8 \\ never (5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\ NEW (1] - 1:1 \\ new [32] - 17:21, 25:4, \\25:9, 30:10, 30:13, \\ 30:20, 36:21, 43:21, \\ \end tabular (1) - 130 \\ \end tabular (1) - 130 \\ \end tabular (1) - 130 \\ \end tabular (1) - 100 $	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22, 110:23, 111:3,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:22\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ noise [2] - 17:2, 27:5\\ nominal [1] - 105:6\\ non [4] - 19:23, 34:9,\\ 81:10, 95:18\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6, 89:9 Nashville [1] - 10:19	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1] - 57:8\\ \hline navigate (1] - 57:8\\ \hline navigate (1] - 158:3\\ \hline Navy (1] - 94:20\\ \hline naysayers (1] - 133:23\\ \hline Neal (4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1] - 18:2\\ \hline nearing (1] - 89:5\\ \hline nearly (5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3] - 50:4,\\ 102:16, 103:8\\ \hline Neck (1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ 41:9, 43:21, 44:15,\\ \hline \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\ negate (1] - 155:16 \\ neglects (1] - 50:22 \\ negotiate (1] - 80:19 \\ neighborhoods (1] - 20:10 \\ neighborhoods (1] - 20:10 \\ neighboring (1] - 97:14 \\ neighbors (3] - 19:6, \\121:17, 128:22 \\ Nelson (1] - 53:1 \\ NESPA (1] - 84:13 \\ net [2] - 106:7, 130:16 \\ Netherlands (1] - 44:6 \\ neutral (1] - 118:8 \\ never [5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\ NEW (1] - 1:1 \\ new [32] - 17:21, 25:4, \\25:9, 30:10, 30:13, \\30:20, 36:21, 43:21, \\44:14, 44:15, 45:2, \\ \end{array}$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22, 110:23, 111:3, 111:4, 111:16,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:18\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:2'\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ noise [2] - 17:2, 27:5\\ nominal [1] - 105:6\\ non [4] - 19:23, 34:9,\\ 81:10, 95:18\\ non-profit [3] - 19:23 \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6, 89:9 Nashville [1] - 10:19 Nassau [2] - 111:19,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1] - 57:8\\ \hline navigate (1] - 57:8\\ \hline navigate (1] - 158:3\\ \hline Navy (1] - 94:20\\ \hline naysayers (1] - 133:23\\ \hline Neal (4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1] - 18:2\\ \hline nearing (1] - 89:5\\ \hline nearly (5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3] - 50:4,\\ 102:16, 103:8\\ \hline Neck (1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ 41:9, 43:21, 44:15,\\ 44:16, 45:7, 46:7,\\ 51:4, 53:14, 54:17,\\ \end{array}$	$139:16, 146:13, \\146:15, 149:21, \\150:3, 150:6, 152:13 \\ negate (1] - 155:16 \\ neglects (1] - 50:22 \\ negotiate (1] - 80:19 \\ neighborhoods (1] - 20:10 \\ neighboring (1] - 97:14 \\ neighbors (3] - 19:6, \\121:17, 128:22 \\ Nelson (1] - 53:1 \\ NESPA (1] - 84:13 \\ net [2] - 106:7, 130:16 \\ Netherlands (1] - 44:6 \\ neutral (1] - 118:8 \\ never [5] - 16:3, 17:23, \\55:4, 130:22, 147:18 \\ NEW (1] - 1:1 \\ new [32] - 17:21, 25:4, \\25:9, 30:10, 30:13, \\30:20, 36:21, 43:21, \\44:14, 44:15, 45:2, \\71:17, 74:12, 78:4, \\ \end{cases}$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22, 110:23, 111:3, 111:4, 111:16, 111:20, 111:22,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \textbf{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:2'\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ noise [2] - 17:2, 27:5\\ nominal [1] - 105:6\\ non [4] - 19:23, 34:9,\\ 81:10, 95:18\\ non-profit [3] - 19:23\\ 34:9, 81:10\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6, 89:9 Nashville [1] - 10:19	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1] - 57:8\\ \hline navigate (1] - 57:8\\ \hline navigate (1] - 158:3\\ \hline Navy (1] - 94:20\\ \hline naysayers (1] - 133:23\\ \hline Neal (4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1] - 18:2\\ \hline nearing (1] - 89:5\\ \hline nearly (5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3] - 50:4,\\ 102:16, 103:8\\ \hline Neck (1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ 41:9, 43:21, 44:15,\\ 44:16, 45:7, 46:7,\\ 51:4, 53:14, 54:17,\\ 54:18, 64:4, 68:7,\\ \end{array}$	$\begin{array}{c} 139:16, 146:13,\\ 146:15, 149:21,\\ 150:3, 150:6, 152:13\\ negate (1] - 155:16\\ neglects (1] - 50:22\\ negotiate (1] - 80:19\\ neighborhoods (1] - 20:10\\ neighboring (1] - 97:14\\ neighbors (3] - 19:6,\\ 121:17, 128:22\\ Nelson (1] - 53:1\\ NESPA (1] - 84:13\\ net [2] - 106:7, 130:16\\ Netherlands (1] - 44:6\\ neutral (1] - 118:8\\ never (5] - 16:3, 17:23,\\ 55:4, 130:22, 147:18\\ NEW (1] - 1:1\\ new (32] - 17:21, 25:4,\\ 25:9, 30:10, 30:13,\\ 30:20, 36:21, 43:21,\\ 44:14, 44:15, 45:2,\\ 71:17, 74:12, 78:4,\\ 80:5, 85:21, 87:9,\\ 95:15, 101:20,\\ \end{array}$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22, 110:23, 111:3, 111:4, 111:16, 111:20, 111:22, 113:3, 113:15,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ \mbox{Newsday [1] - 132:10}\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:11\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:21\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ noise [2] - 17:2, 27:5\\ nominal [1] - 105:6\\ non [4] - 19:23, 34:9,\\ 81:10, 95:18\\ non-profit [3] - 19:23\\ \end{array}$
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6, 89:9 Nashville [1] - 10:19 Nassau [2] - 111:19,	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1] - 57:8\\ \hline navigate (1] - 57:8\\ \hline navigate (1] - 158:3\\ \hline Navy (1] - 94:20\\ \hline naysayers (1] - 133:23\\ \hline Neal (4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1] - 18:2\\ \hline nearing (1] - 89:5\\ \hline nearly (5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3] - 50:4,\\ 102:16, 103:8\\ \hline Neck (1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ 41:9, 43:21, 44:15,\\ 44:16, 45:7, 46:7,\\ 51:4, 53:14, 54:17,\\ 54:18, 64:4, 68:7,\\ 71:9, 71:16, 74:4,\\ \end{array}$	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate $(1) - 155:16$ neglects $(1) - 50:22$ negotiate $(1) - 80:19$ neighborhoods $(1) - 20:10$ neighboring $(1) - 97:14$ neighbors $(3) - 19:6$ , 121:17, 128:22 Nelson $(1) - 53:1$ NESPA $(1) - 84:13$ net $[2] - 106:7, 130:16$ Netherlands $(1) - 44:6$ neutral $(1) - 118:8$ never $(5] - 16:3, 17:23, 55:4, 130:22, 147:18$ NEW $(1) - 1:1$ new $(32) - 17:21, 25:4, 25:9, 30:10, 30:13, 30:20, 36:21, 43:21, 44:14, 44:15, 45:2, 71:17, 74:12, 78:4, 80:5, 85:21, 87:9, 95:15, 101:20, 105:21, 105:23, 1000000000000000000000000000000000000$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22, 110:23, 111:3, 111:4, 111:16, 111:20, 111:22,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18, 15:20, 48:22, 50:19 64:15, 76:5, 87:2, 113:2, 128:22, 137:23, 152:21 nice [2] - 48:3, 109:11 night [3] - 50:16, 135:19, 136:14 nightmare [2] - 25:2' 94:11 nine [2] - 133:9, 138: nobody [1] - 45:23 noise [2] - 17:2, 27:5 nominal [1] - 105:6 non [4] - 19:23, 34:9, 81:10, 95:18 non-profit [3] - 19:23 34:9, 81:10 non-renewable [1] -
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [38] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6, 89:9 Nashville [1] - 10:19 Nassau [2] - 111:19, 142:11	147:23, 148:9, 149:22, 150:5, 157:23 Nature (1) - 57:8 navigate (1) - 158:3 Navy (1) - 94:20 naysayers (1) - 133:23 Neal (4) - 47:13, 51:16, 51:17, 98:21 near (4) - 4:2, 17:15, 17:17, 46:23 nearby (1) - 18:2 nearing (1) - 89:5 nearly (5) - 41:12, 69:3, 69:4, 88:21, 131:5 necessary (3) - 50:4, 102:16, 103:8 Neck (1) - 145:15 need [70] - 9:2, 9:4, 9:7, 13:20, 14:4, 14:5, 31:17, 32:12, 33:6, 36:21, 37:22, 41:9, 43:21, 44:15, 44:16, 45:7, 46:7, 51:4, 53:14, 54:17, 54:18, 64:4, 68:7, 71:9, 71:16, 74:4, 75:5, 75:8, 76:1,	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate $(1] - 155:16$ neglects $(1] - 50:22$ negotiate $(1] - 80:19$ neighborhoods $(1] - 20:10$ neighborhoods $(1] - 20:10$ neighborhoods $(3] - 19:6$ , 121:17, 128:22 Nelson $(1] - 53:1$ NESPA $(1] - 84:13$ net $[2] - 106:7, 130:16$ Netherlands $(1] - 44:6$ neutral $(1] - 118:8$ never $[5] - 16:3, 17:23$ , 55:4, 130:22, 147:18 NEW $(1] - 1:1$ new $[32] - 17:21, 25:4$ , 25:9, 30:10, 30:13, 30:20, 36:21, 43:21, 44:14, 44:15, 45:2, 71:17, 74:12, 78:4, 80:5, 85:21, 87:9, 95:15, 101:20, 105:21, 105:23, 107:17, 107:18,	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22, 110:23, 111:3, 111:4, 111:16, 111:20, 111:22, 113:3, 113:15,	149:16, 150:3, 150:23, 151:2, 152:6, 152:11, 153:19, 154:5, 154:11, 155:7, 155:8, 155:14, 164: news [2] - 46:1, 162:12 Newsday [1] - 132:10 next [11] - 15:18, 15:20, 48:22, 50:19 64:15, 76:5, 87:2, 113:2, 128:22, 137:23, 152:21 nice [2] - 48:3, 109:10 night [3] - 50:16, 135:19, 136:14 nightmare [2] - 25:21 94:11 nine [2] - 133:9, 138: nobody [1] - 45:23 noise [2] - 17:2, 27:5 nominal [1] - 105:6 non [4] - 19:23, 34:9, 81:10, 95:18 non-profit [3] - 19:23 34:9, 81:10 non-renewable [1] - 95:18.
myopic [3] - 140:22, 140:23, 141:1 mysteriously [1] - 26:9 N name [39] - 2:2, 5:6, 5:7, 5:9, 8:6, 9:14, 10:16, 18:15, 23:7, 25:15, 28:23, 31:5, 33:18, 42:10, 46:16, 47:18, 51:17, 53:1, 61:21, 66:18, 70:16, 72:23, 76:22, 78:17, 82:14, 90:9, 97:22, 107:3, 110:18, 115:3, 119:5, 129:19, 138:2, 138:4, 142:9, 146:22, 158:15, 158:17 Nantucket [2] - 89:6, 89:9 Nashville [1] - 10:19 Nassau [2] - 111:19, 142:11 nasty [1] - 135:23	$\begin{array}{c} 147:23, 148:9,\\ 149:22, 150:5,\\ 157:23\\ \hline Nature (1] - 57:8\\ \hline navigate (1] - 57:8\\ \hline navigate (1] - 158:3\\ \hline Navy (1] - 94:20\\ \hline naysayers (1] - 133:23\\ \hline Neal (4] - 47:13,\\ 51:16, 51:17, 98:21\\ \hline near (4] - 4:2, 17:15,\\ 17:17, 46:23\\ \hline nearby (1] - 18:2\\ \hline nearing (1] - 89:5\\ \hline nearly (5] - 41:12,\\ 69:3, 69:4, 88:21,\\ 131:5\\ \hline necessary (3] - 50:4,\\ 102:16, 103:8\\ \hline Neck (1] - 145:15\\ \hline need [70] - 9:2, 9:4,\\ 9:7, 13:20, 14:4,\\ 14:5, 31:17, 32:12,\\ 33:6, 36:21, 37:22,\\ 41:9, 43:21, 44:15,\\ 44:16, 45:7, 46:7,\\ 51:4, 53:14, 54:17,\\ 54:18, 64:4, 68:7,\\ 71:9, 71:16, 74:4,\\ \end{array}$	139:16, 146:13, 146:15, 149:21, 150:3, 150:6, 152:13 negate $(1) - 155:16$ neglects $(1) - 50:22$ negotiate $(1) - 80:19$ neighborhoods $(1) - 20:10$ neighboring $(1) - 97:14$ neighbors $(3) - 19:6$ , 121:17, 128:22 Nelson $(1) - 53:1$ NESPA $(1) - 84:13$ net $[2] - 106:7, 130:16$ Netherlands $(1) - 44:6$ neutral $(1) - 118:8$ never $(5] - 16:3, 17:23, 55:4, 130:22, 147:18$ NEW $(1) - 1:1$ new $(32) - 17:21, 25:4, 25:9, 30:10, 30:13, 30:20, 36:21, 43:21, 44:14, 44:15, 45:2, 71:17, 74:12, 78:4, 80:5, 85:21, 87:9, 95:15, 101:20, 105:21, 105:23, 1000000000000000000000000000000000000$	68:4, 68:14, 68:20, 69:7, 69:11, 70:19, 70:23, 71:5, 72:9, 72:12, 73:6, 73:11, 74:2, 74:3, 74:9, 74:22, 75:2, 75:11, 75:19, 76:17, 77:2, 77:9, 77:11, 77:15, 77:17, 78:18, 79:1, 79:10, 79:14, 79:18, 80:10, 80:18, 80:20, 81:1, 81:9, 81:16, 81:18, 81:22, 82:3, 82:5, 83:20, 84:8, 84:13, 90:14, 90:15, 90:18, 90:20, 91:18, 92:19, 93:2, 94:5, 95:12, 95:14, 97:9, 97:11, 98:6, 98:7, 98:8, 100:6, 102:14, 102:22, 104:1, 104:10, 104:13, 104:17, 105:4, 109:17, 110:22, 110:23, 111:3, 111:4, 111:16, 111:20, 111:22, 113:3, 113:15, 113:23, 115:5,	$\begin{array}{c} 149:16, 150:3,\\ 150:23, 151:2,\\ 152:6, 152:11,\\ 153:19, 154:5,\\ 154:11, 155:7,\\ 155:8, 155:14, 164:\\ news [2] - 46:1,\\ 162:12\\ Newsday [1] - 132:10\\ next [11] - 15:18,\\ 15:20, 48:22, 50:19\\ 64:15, 76:5, 87:2,\\ 113:2, 128:22,\\ 137:23, 152:21\\ nice [2] - 48:3, 109:10\\ night [3] - 50:16,\\ 135:19, 136:14\\ nightmare [2] - 25:21\\ 94:11\\ nine [2] - 133:9, 138:\\ nobody [1] - 45:23\\ noise [2] - 17:2, 27:5\\ nominal [1] - 105:6\\ non [4] - 19:23, 34:9,\\ 81:10\\ non-renewable [1] - \\ \end{array}$

1.

		i		
north [4] - 15:14,	146:10, 157:22	69:20, 85:4, 92:12,	open [2] - 87:15,	42:13, 52:14, 58:18,
61:22, 62:21, 94:7	NYSERDA's [1] -	97:1, 135:20, 136:1,	123:8	91:4, 107:5, 119:7,
North [1] - 38:15	157:13	137:14, 142:21,	opening [1] - 88:6	157:4
northeast [3] - 15:17,		150:7, 150:12,	openly [1] - 12:3	organizer [2] - 19:22,
15:21, 131:23	0	154:10	operate [5] - 69:15,	73:1
northeast's [1] - 132:1	-	Oklahoma [12] -	105:21, 105:23,	originally [1] - 63:20
northeastern [1] -		15:11, 15:12, 16:1,	136:5, 159:12	oscillations [1] -
25:19	o'clock [1] - 15:13	16:3, 16:5, 16:8,	operated [1] - 161:13	108:19
Northport [1] - 145:15	<b>O'Connell</b> [3] - 1:21,	16:10, 16:12, 16:15,	operating [8] - 41:16,	otherwise [1] - 35:12
nose [2] - 26:5, 127:22	164:4, 164:15	17:8, 17:17, 17:18	50:8, 50:13, 69:19,	ought [2] - 106:14,
not-for-profit (1) -	Oak [1] - 37:18	old [14] - 52:19, 53:13,	71:13, 81:11, 106:8,	138:17
77:6	obfuscation [1] -	92:3, 94:16, 94:19,	111:20	ourselves [1] - 84:14
Notary [1] - 164:5	162:15	94:20, 94:21, 94:23,	operation [1] - 50:10	outdated [2] - 75:9
note [5] - 80:5, 95:16,	objection [1] - 160:12	112:11, 114:13,	operations [1] - 37:10	99:12
103:17, 147:6,	objectives [1] - 100:22	114:15, 162:3	Operator [2] - 10:21	outdoor [1] - 41:17
160:12	obviously [2] - 44:14,	Oldendorp [2] - 10:15,	131:10	outlaw [1] - 105:17
noted [5] - 89:1,	159:22	15:1	operators [1] - 10:22	outlay [1] - 28:10
100:4, 100:10,	occupants [1] - 49:9	OLDENDORP [2] -	opinion [1] - 72:5	outlined [6] - 14:20,
101:15, 134:5	occupy [1] - 162:13	15:2, 18:18	opinions [1] - 146:23	111:23, 113:13,
notes [3] - 83:1,	occurred [1] - 16:3	oldest [1] - 62:2	opponent [1] - 88:7	117:4, 118:6, 139:7
132:18, 164:7	ocean [8] - 43:19,	once [10] - 8:17,		outlines [1] - 4:1
nothing [1] - 152:6	60:17, 91:1, 91:6,	17:22, 19:16, 72:8,	opportunistic [1] - 32:13	output [2] - 24:7, 24:9
	92:9, 93:22, 108:19,	72:9, 76:2, 76:14,		• • •
notice [3] - 3:9, 3:10, 95:19	134:2	95:1, 95:5, 118:21	opportunities [7] -	outreach [2] - 31:8,
	oceans [1] - 87:5	one [70] - 4:11, 5:6,	24:1, 24:2, 25:7,	112:2
noticed [3] - 26:23,	October [1] - 20:6	5:15, 5:20, 10:19,	101:8, 113:12,	outright [1] - 151:2
96:8, 108:11	offer [3] - 119:23,	10:21, 16:6, 24:2,	119:19, 119:23	outside [2] - 15:11,
notorious [1] - 96:17	130:9, 133:20	34:7, 38:18, 39:5,	opportunity [25] -	128:5
nuclear [18] - 12:18,	offering [1] - 129:3	42:14, 42:21, 43:16,	6:20, 10:12, 13:1,	overall [5] - 35:20,
13:3, 14:5, 57:1,	offers [2] - 133:14,	43:17, 43:20, 44:2,	15:3, 15:4, 23:10,	36:7, 50:22, 112:22,
60:5, 63:12, 67:5,	146:11	45:2, 45:8, 45:11,	23:20, 25:14, 33:18,	133:19
94:8, 95:1, 96:13,	office [2] - 10:10, 20:1	45:19, 46:23, 48:7,	61:20, 74:12, 75:11,	overarching [1] - 4:9
122:22, 124:6,	Office [2] - 78:18, 79:3	50:20, 54:22, 55:11,	78:11, 101:5,	overdue [1] - 52:21
132:19, 140:13,	offices [4] - 42:13,	58:10, 59:13, 60:21,	101:17, 101:22,	overheating [1] -
140:15, 140:17,	103:22, 106:12,	65:1, 65:6, 66:19,	102:2, 119:10,	57:21
140:22, 142:21	128:5	74:13, 79:16, 80:11,	120:2, 129:18,	own [13] - 26:14, 31:7,
Nuclear [2] - 94:14,	officials [1] - 79:13	84:22, 85:6, 88:19,	133:15, 149:13,	50:8, 57:5, 69:10,
133:8		91:3, 94:7, 96:12,	150:22, 151:12,	84:22, 85:6, 89:16,
number [20] - 8:8,	offshore [40] - 24:3,	97:9, 100:9, 103:18,	155:19	95:20, 98:18,
10:11, 11:8, 11:14,	24:5, 24:15, 25:1,	104:18, 113:14,	oppose [2] - 134:1,	102:15, 153:12,
39:6, 44:2, 48:4,	25:7, 30:23, 31:19,		134:21	161:12
51:20, 54:14, 96:12,	42:23, 43:16, 43:22,	117:10, 117:15,	opposite [1] - 35:22	owned [2] - 46:5,
100:5, 100:9,	44:3, 44:7, 44:9,	118:14, 120:19,	opposition [1] - 133:4	64:12
103:18, 115:15,	44:13, 65:1, 65:2,	120:20, 125:11,	option [2] - 85:18,	owners [1] - 128:11
119:7, 125:15,	65:21, 66:7, 73:21,	138:4, 143:1,	85:19	owns [1] - 49:15
138:9, 150:14,	74:20, 75:6, 75:11,	144:15, 144:16,	options [2] - 36:1,	
154:18, 159:11	75:14, 75:16, 77:19,	144:23, 145:3,	112:18	Р
numbers [5] - 48:3,	77:22, 79:18, 80:1,	152:10, 154:22,	oral [1] - 4:20	-
48:4, 48:5, 52:12,	80:8, 80:13, 80:15,	156:10, 157:5,	Orange [1] - 153:3	
122:2	80:17, 81:2, 89:4,	157:7, 157:9,	order [6] - 52:19,	<b>p.m</b> [4] - 1:7, 15:16,
numerical [3] - 42:22,	89:5, 89:7, 89:10,	157:19, 159:11,	52:20, 52:21, 66:14,	163:20
44:13, 46:13	90:3, 122:19, 127:15	159:18, 160:3	113:11, 124:21	pace [1] - 100:23
numerous [2] - 83:14,	Offshore [1] - 24:11	One [2] - 57:7, 57:14	organic [1] - 127:21	Pacific [1] - 108:19
117:4	often [4] - 17:15,	ones [2] - 114:16,	organization [9] -	pads [1] - 92:1
NYISO [1] - 131:10	108:13, 116:13,	159:19	19:7, 19:23, 42:17,	page [7] - 50:20,
NYIT [1] - 156:23	149:6	ongoing [3] - 12:18,	62:3, 90:11, 111:8,	143:1, 143:2,
NYPA [3] - 44:20,	oil [25] - 8:21, 16:19,	140:18, 159:2	111:19, 138:4,	143:11, 143:16,
65:10, 157:23	18:12, 28:5, 28:19,	online [2] - 12:18,	156:11	144:15
NYSERDA [9] - 1:12,	34:3, 35:19, 39:6,	145:20	Organization [3] -	pages [1] - 136:19
	41:11, 45:11, 57:18,	onsite [1] - 41:18	34:9, 38:22, 82:23	paid [2] - 119:16,
41:6, 41:15, 42:3				
41:6, 41:15, 42:3, 55:15, 85:14, 146:3,	58:7, 68:3, 68:6,	oomph [1] - 32:3	organizations [7] -	132:6

f.

7

.

painful [1] - 43:20 panel [1] - 40:20 Panel [1] - 152:19 panels [15] - 28:2, 28:7, 28:9, 28:16, 57:6, 67:12, 69:16, 89:17, 93:1, 97:11, 97:14, 135:14, 135:16, 136:7, 150:11 paper [3] - 61:1, 92:8, 128:16 parade [1] - 27:3 parameters [1] - 162:7 paramount[1] -111:15 parcel [1] - 91:11 parents [1] - 128:15 parity [2] - 39:17, 83:18 Park [2] - 86:19, 144:5 parking [1] - 67:13 parkland [1] - 91:17 part[7] - 39:4, 64:18, 66:3, 85:21, 138:9, 138:18, 158:8 participants [1] -159:19 participate [1] -118:22 participating [1] -115:8 participation [1] -118:15 particular [3] - 12:16, 105:11, 134:21 particularly [8] -21:23, 45:9, 85:2, 85:11, 98:3, 100:23, 111:13, 113:12 particulate [1] -122:12 partner [2] - 33:20, 68:21 partnerships [4] -116:16, 123:15, 126:15, 126:16 parts [2] - 8:16, 112:12 Party [1] - 107:4 party [1] - 91:9 pass [1] - 109:23 passed [1] - 53:4 passenger [1] -161:12 passing [1] - 7:17 passionate [1] - 25:15 passionately [1] -163:9 passive [2] - 69:14,

161:15 past [9] - 52:15, 63:12, 69:3, 74:10, 83:9, 113:4, 119:9, 133:9, 137:19 pastoral [1] - 25:20 patented [1] - 71:1 Paterson [1] - 63:21 path [5] - 63:10, 64:9, 77:12, 117:3, 139:15 pathways [1] - 114:9 Pathways [1] - 66:13 patience [2] - 162:17, 162:23 PAULSON [1] - 146:19 Paulson [3] - 145:13, 146:17, 146:22 Paunmonok's [1] -146:7 pay [4] - 51:2, 51:7, 51:11, 61:3 paying [5] - 39:7, 113:21, 128:4, 130:18, 140:21 peak [12] - 24:7, 24:8, 36:19, 37:1, 37:2, 37:11, 62:21, 65:3, 101:13, 107:14, 133:16, 133:21 penalty [2] - 105:14, 105:19 penetration [3] -117:11, 117:14, 118:18 Pennsylvania [9] -18:2, 25:20, 26:3, 27:15, 121:18, 125:19, 128:22, 149:4, 154:8 pension [2] - 159:13, 159:22 People [1] - 120:15 people [57] - 17:21, 18:1, 24:13, 24:15, 26:1, 26:3, 26:5, 26:9, 28:6, 28:15, 51:1, 51:7, 53:5, 53:19, 55:21, 56:2, 57:4, 61:13, 68:10, 70:11, 82:17, 85:18, 96:21, 102:23, 103:19, 104:19, 105:3, 105:10, 106:12, 110:6, 115:15, 117:16, 118:9, 119:13, 119:14, 119:16, 119:22, 120:16, 120:17, 122:14, 124:2, 125:12,

128:4, 138:5, 138:23, 140:6, 140:9, 144:18, 146:23, 148:7, 149:2, 151:19, 154:18, 156:4, 157:12, 157:14, 160:1 people's [3] - 46:4, 65:14, 120:22 per [7] - 16:7, 105:7, 105:14, 105:16, 105:19, 161:11, 161:13 percent [60] - 11:21, 11:22, 22:15, 32:22, 32:23, 33:4, 34:3, 34:4, 35:6, 35:7, 36:14, 36:17, 37:3, 43:14, 43:15, 59:13, 63:19, 64:6, 64:8, 68:13, 71:22, 71:23, 73:13, 74:8, 75:5, 76:3, 77:13, 81:14, 87:11, 88:10, 88:18, 88:19, 88:21, 89:3, 89:8, 89:13, 90:1, 91:16, 94:15, 99:18, 99:19, 99:20, 99:21, 100:11, 100:16, 100:21, 116:9, 117:15, 130:15, 133:5, 133:18, 139:3, 139:9, 139:10, 140:1, 143:14, 143:17, 154:5, 154:21 percentage [4] - 35:1, 77:20, 100:17 perfect [1] - 40:20 performance [2] -115:6, 116:17 perhaps [2] - 52:7, 151:17 period [1] - 36:20 periods [1] - 133:16 permanent [1] - 19:18 permit [2] - 6:15, 66:5 perpetuates [1] -152:12 persist [1] - 13:5 persisted [1] - 27:3 person [2] - 5:10, 56:7 personal [3] - 56:1, 116:23, 147:6 personally [2] - 28:2, 79:6 personnel [1] - 56:5 pertain [1] - 6:9 pertaining [1] - 114:5

pests [1] - 62:20 Pete [1] - 60:21 Peter [3] - 58:16, 61:17 61:21 petroleum [2] - 99:19, 151:5 phased [1] - 151:5 Phil [1] - 78:19 Philip [1] - 110:14 Phillip [2] - 114:20, 163:2 phone [2] - 8:8, 10:11 photovoltaic [1] -33:23 photovoltaics [2] -57:13, 72:3 physical [1] - 105:2 physics [1] - 108:10 pick [2] - 20:9, 54:19 picked [1] - 95:22 picture [2] - 14:15, 50:22 piece [1] - 117:12 pieces [1] - 20:9 pig [1] - 97:10 pilot [1] - 44:15 pioneer [1] - 135:9 pioneers [2] - 137:2, 154:12 pipeline [4] - 21:5, 120:18, 134:3, 134:5 pipelines [3] - 20:21, 67:21, 153:2 place [12] - 10:23, 25:20, 28:5, 38:8, 53:12, 53:16, 56:2, 102:21, 107:17, 115:23, 119:1, 127:15 Place [1] - 149:15 placed [1] - 79:12 places [3] - 53:19, 95:13, 130:20 plan [151] - 3:6, 3:8, 3:10, 3:13, 4:1, 4:4, 4:14, 4:17, 4:23, 5:2, 6:21, 11:14, 14:14, 14:19, 15:6, 18:9, 18:19, 21:20, 23:2, 23:17, 23:19, 24:1, 25:6, 29:4, 32:13, 33:2, 36:10, 38:9, 39:4, 42:20, 42:21, 43:2, 43:5, 43:10, 44:12, 44:18, 45:5, 45:6, 45:9, 46:10, 47:16, 47:23, 48:2, 48:7, 48:9, 49:11, 50:20, 50:21, 51:6, 52:7, 52:12, 53:22,

55:10, 55:12, 62:13, 63:16, 66:8, 66:11, 66:21, 67:7, 67:16, 69:1, 69:7, 69:17, 73:12, 73:15, 73:17, 73:23, 74:4, 74:11, 74:15, 75:21, 76:10, 76:12, 76:17, 77:4, 78:2, 78:7, 78:12, 85:11, 87:12, 87:17, 87:18, 87:19, 88:9, 89:1, 89:11, 91:6, 92:7, 92:8, 92:11, 92:13, 92:15, 92:19, 93:1, 93:4, 94:5, 99:16, 100:14, 101:16, 104:4, 106:18, 111:4, 113:5; 113:17, 114:10, 115:10, 116:15, 117:22, 120:4, 120:6, 120:9, 120:23, 121:3, 121:9, 121:21, 121:22, 122:3, 123:8, 123:15, 125:9, 126:12, 127:2, 127:5, 130:8, 130:11, 130:12, 130:14, 134:20, 139:1, 139:10, 139:16, 141:16, 142:22, 144:16, 146:3, 146:10, 147:19, 149:19, 152:8, 152:17, 153:16, 154:1, 155:3, 156:9, 157:2, 158:4, 158:5, 158:9 Plan [27] - 1:3, 3:4, 6:9, 10:8, 11:7, 20:19, 34:18, 39:4, 61:20, 66:21, 73:6, 77:10; 79:10, 90:15, 98:7, 98:21, 99:4, 100:2, 110:22, 115:3, 129:19, 130:6, 136:21, 147:3, 151:2, 152:12, 163:14 plan's [1] - 68:12 planes [1] - 94:22 planet [8] - 30:10, 45:18, 59:5, 60:7, 61:12, 63:15, 92:23, 138:23 Planet [2] - 58:19, 138:5 planned [4] - 4:12, 80:9, 140:19, 146:6

Planning [7] - 2:5, 3:5, 4:21, 61:19, 77:3, 79:2, 163:7 planning [11] - 2:7, 5:1, 5:13, 6:19, 68:15, 72:12, 78:22, 89:23, 138:12, 138:14, 159:5 plans [9] - 32:11, 42:18, 49:8, 49:18, 52:15, 67:21, 96:22, 127:6, 140:14 plant [3] - 57:1, 127:18, 132:19 plants [15] - 12:18, 14:7, 20:22, 23:21, 12:6 29:17, 36:22, 108:23, 114:12, 114:13, 114:16, 122:22, 140:14, 154:7 140:18, 140:19. 143:23 play [3] - 43:9, 71:5, 79:20 playing [3] - 13:9, 60:1, 123:2 plays [1] - 31:1 pleas [1] - 146:13 plentiful [1] - 74:13 plenty [1] - 161:2 plethora [1] - 143:7 plug [1] - 36:2 plug-in [1] - 36:2 Plummer [3] - 23:6, 23:8, 30:15 PLUMMER [1] - 23:7 plus [2] - 142:10, 143:6 pocketed [1] - 149:7 podium [1] - 5:8 poem [2] - 145:21, 146:21 poetry [1] - 146:20 Point [7] - 6:16, 12:19, 12:20, 44:23, 133:5, 133:7, 143:16 point [17] - 30:12, 51:22, 52:2, 53:23, 54:22, 57:17, 58:1, 59:23, 61:5, 81:7, 89:3, 96:18, 124:9, 125:3, 125:14, 128:3, 161:23 points [10] - 11:14, 33:10, 33:17, 51:21, 52:10, 52:15, 60:13, 100:18, 160:13, 163:8 poison [1] - 127:18 poisoned [2] - 127:22,

129:5 poisoning [6] - 38:3, 47:4, 59:10, 59:15, 71:11, 148:7 polar [1] - 90:23 police [2] - 102:15, 102:16 policies [7] - 61:5, 100:7, 125:5, 129:23, 138:12, 138:15, 160:7 policy [7] - 4:2, 13:13, 23:13, 45:13, 52:6, 103:17, 138:17 policymakers [1] political [8] - 33:10, 49:5, 108:4, 108:5, 108:6, 108:7, 110:3, politically [1] - 96:10 politicians [2] - 91:4, 141:5 politics [1] - 59:4 Polling [1] - 75:4 pollute [4] - 38:2, 92:22, 107:15, 154:16 polluted [2] - 45:19, 147:7 polluting [1] - 17:4 pollution [19] - 17:2, 50:9, 59:15, 63:19, 74:1, 74:4, 80:16, 87:10, 88:12, 92:13, 106:16, 138:13, 147:9, 150:16, 150:17, 153:15, 154:10, 160:14 pollutions [1] - 146:12 poor [3] - 38:4, 59:17, 132:3 populated [1] - 25:3 population [2] - 25:3, 97:12 populus [1] - 144:1 Port [12] - 20:4, 21:7, 21:14, 21:16, 22:21, 90:20, 122:20, 127:14, 133:12, 134:7, 134:11, 149:23 port [5] - 58:9, 75:13, 122:20, 127:14, 133:12 portfolio [2] - 84:5, 158:5 portion [2] - 24:21, 49:23 pose [2] - 140:19,

153:2 position [5] - 23:16, 25:8, 77:9, 116:23, 129:6 positive [3] - 11:8, 14:19, 122:8 possible [8] - 4:19, 6:10, 6:11, 6:18, 83:17, 99:9, 109:9, 154:6 possibly [1] - 109:13 post [1] - 103:3 postpone [1] - 9:6 potable [3] - 17:22, 26:12, 59:13 potent [5] - 22:4, 22:7, 62:15, 68:20, 90:22 potential [11] - 12:2, 12:6, 23:19, 24:16, 24:20, 30:9, 32:14, 88:6, 113:21, 141:22, 155:16 Potter [1] - 102:10 Povall [4] - 28:22, 31:4, 31:5, 31:7 POVALL [1] - 31:5 poverty [2] - 94:2, 114:9 Power [7] - 6:16, 74:22, 110:20, 112:2, 130:5, 132:8, 144:20 power [56] - 3:19, 3:21, 12:8, 12:9. 12:10, 12:17, 12:18, 12:19, 13:8, 13:14, 14:6, 14:7, 20:22, 29:17, 36:21, 36:22, 39:14, 40:18, 43:15, 43:16, 64:14, 64:18, 65:7, 65:12, 66:6, 72:19, 73:18, 74:21, 89:16, 94:8, 96:12, 97:16, 101:15, 114:13, 114:15, 115:16, 122:8, 122:18, 122:22, 127:18, 130:16, 133:6, 134:22, 140:14, 140:18, 143:23, 144:4, 144:6, 144:10, 144:14, 144:21, 144:22, 149:14, 153:20, 156:14, 162:14 powered [4] - 29:13, 50:12, 97:13, 145:9 powerful [1] - 135:17 Powering [1] - 144:10

practical [1] - 136:18 practicality [1] -112:15 practice [1] - 5:9 practicing [1] - 82:15 praise [1] - 64:16 pre [1] - 44:21 pre-global [1] - 44:21 precisely [1] - 52:20 preclude [1] - 118:15 predatory [1] - 159:6 predicated [1] - 162:8 preempted [1] - 159:8 premature [1] - 132:18 prematurely [1] - 13:2 premise [3] - 120:7, 122:10, 123:10 premises [1] - 56:10 premiums [1] - 51:7 prepare [1] - 124:21 prepared [4] - 10:6, 27:21, 84:11, 102:6 present [4] - 12:11, 18:4, 91:17, 162:7 presentations [1] -6:16 presented [1] - 18:19 presenting [1] - 152:8 presents [1] - 64:23 preservation [3] -160:16, 160:19, 161:21 preservationist [1] -91:10 preserve [2] - 102:13, 102:21 preserved [1] - 91:17 President [2] - 1:12, 2:2 president [6] - 10:20, 23:8, 27:12, 138:3, 142:11, 150:9 press [1] - 26:10 pressure [3] - 148:12, 148:14, 148:16 presumed [1] - 159:3 prevalent [4] - 18:4, 85:22, 108:20, 111:16 prevent [3] - 17:19, 114:16, 127:6 preventing [3] - 20:12, 23:2, 72:17 previous [2] - 15:23, 38:23 previously [1] - 134:5 price [12] - 12:14, 36:3, 36:4, 37:12, 65:13, 131:15, 133:19, 134:6,

134:10, 140:21, 150:19 prices [5] - 34:3, 36:5, 69:2, 69:3, 131:17 pricing [1] - 133:17 primary [1] - 99:18 prime [2] - 50:13, 147:2 principal [3] - 88:1, 130:5, 132:23 prioritize [1] - 75:6 prioritizes [1] - 74:5 prioritizing [1] -114:17 priority [2] - 113:10, 114:10 pristine [1] - 146:6 private [11] - 3:1, 3:19, 11:12, 13:8, 23:22, 39:14, 40:12, 103:5, 116:21, 137:10, 155:13 privatize [1] - 95:19 probability [1] - 104:2 problem [11] - 55:8, 55:21, 56:3, 104:3, 108:4, 108:5, 120:22, 121:11, 139:5, 140:16, 141:5 problematic [1] - 22:2 problems [7] - 18:3, 26:6, 27:5, 55:22, 120:9, 121:15, 148:23 proceed [1] - 65:11 proceedings [2] -2:23, 164:8 process [12] - 2:20, 5:4, 7:5, 7:10, 16:22, 17:1, 17:14, 65:20, 89:15, 98:5, 103:6, 136.23 procurement [1] -65:20 produce [2] - 55:15, 136:8 produced [8] - 19:7, 19:9, 54:12, 65:12, 92:21; 99:20, 140:17, 154:3 produces [1] - 57:19 producing [6] - 23:2, 24:7, 107:8, 118:10, 137:3, 152:14 product [3] - 17:13, 107:8, 107:10 production (8) -30:12, 65:3, 78:1, 78:9, 107:14,

142:20, 144:6

	· _		1	
162:10	34:15, 39:1, 40:22,	113:23	131:3	rail [2] - 58:8, 68:1
productive [2] -	77:6, 118:8, 129:23	provision [1] - 81:17	pushing [1] - 120:10	raise [1] - 81:11
121:19, 123:6	promoted [1] - 85:7	PSC [1] - 50:5	put [30] - 11:20, 20:9,	raises [1] - 123:22
products [4] - 47:3,	promoting [9] - 11:12,	PSEG [7] - 64:12,	24:12, 30:15, 32:2,	rally [1] - 79:18
88:15, 128:16, 161:8	23:22, 34:10, 54:16,	64:15, 65:19, 89:15,	32:9, 32:19, 33:8,	RALPH [1] - 46:16
Professional [1] -	54:17, 54:18,	89:19, 132:9, 157:23	43:18, 43:22, 44:12,	Ralph [3] - 42:9,
164:4	122:18, 140:10,	public [29] - 3:3, 3:9,	46:5, 47:4, 52:3,	46:16, 46:17
professional [2] -	159:5	3:10, 4:11, 4:12,	53:3, 54:7, 70:5,	ran [1] - 60:18
11:2, 161:20	prone [1] - 112:11	10:19, 21:9, 25:16,	77:23, 80:21, 87:21,	range [3] - 54:21,
rofessor [2] - 16:16,	prop [1] - 159:12	29:23, 30:1, 31:8,	92:3, 122:3, 123:4,	55:20, 134:19
108:10	propaganda [1] -	40:11, 45:13, 56:20,	136:9, 136:10,	ranging [1] - 98:5
<b>rofit</b> [5] - 19:23, 34:9,	162:9	64:13, 68:8, 77:3,	137:9, 141:17,	ranking [1] - 9:20
77:6, 81:10, 129:4	propel [1] - 34:17	103:4, 103:8,	156:18, 157:4,	rarely [1] - 149:1
rofits [1] - 159:12	properly [1] - 138:15	103:10, 103:11,	158:10	rate [8] - 36:14, 65:10,
profound [1] - 138:7	property [1] - 103:5	107:12, 124:7,	puts [2] - 93:1, 140:6	100:21, 109:5,
Program [3] - 76:23,	proponent [1] - 9:23	125:4, 138:10,	putting [3] - 31:21,	116:13, 132:8,
110:20, 112:2	proportion [1] - 154:2	138:15, 138:18,	124:20, 127:13	143:14, 152:4
orogram [11] - 40:9,	proposal [1] - 21:14	145:3, 161:1	PV [5] - 33:23, 34:13,	ratepayer [1] - 132:10
55:2, 55:3, 85:11,	proposals [3] - 14:21,	Public [9] - 1:3, 1:13,	40:4, 72:3, 89:13	ratepayers [5] - 14:13,
88:13, 89:14,	43:18, 80:5	2:8, 2:22, 75:2,	-	131:7, 131:16,
111:22, 118:13,	propose [6] - 28:6,	117:22, 143:22,	Q	132:6, 132:16
135:11, 155:7,	81:7, 81:16, 88:10,	145:7, 164:5		rates [3] - 13:5, 133:3,
157:13	89:3, 89:12	public/private [3] -	guality [4] - 11:5,	161:11
programs [13] - 23:13,	proposed [9] - 20:4,	116:16, 123:15,	96:2, 112:22, 162:4	rather [5] - 45:17,
44:15, 48:11, 48:21,	21:6, 21:20, 74:18,	126:15	quantifiable [1] -	64:18, 153:17,
74:9, 78:8, 113:2,	74:22, 99:2, 117:8,	publicity [1] - 123:19	138:18	160:19, 162:3
113:15, 114:18,	117:22, 129:18	publicized [2] - 161:5,	quantification [1] -	rating [1] - 133:8
116:5, 117:19,	proposes [1] - 69:1	162:12	138:10	Rav [3] - 86:10, 90:8,
157:18	proposing [1] - 87:11	publicly [1] - 6:23	quantified [1] - 138:15	90:9 ·
progress [2] - 96:8,	prose [1] - 146:20	published [2] - 3:11,	quantify [1] - 67:8	reach [4] - 15:5,
111:4	protect [7] - 15:8,	16:13	Quebec [1] - 131:5	24:16, 77:16, 112:8
progressed [2] -	27:9, 30:10, 63:7,	pull [1] - 158:19	Queens [1] - 147:10	reached [2] - 117:15,
96:10, 96:11	102:16, 149:6	pump [16] - 33:23,	questions [7] - 6:20,	135:17
Progressive [2] -	protected [1] - 161:7	34:16, 39:1, 39:9,	7:4, 7:10, 73:15,	reaches [1] - 61:6
110:19, 110:23	protecting [2] - 76:11,	39:21, 40:2, 41:7,	123:8, 136:20,	reaching [2] - 109:4,
progressive [3] -	126:23	41:8, 41:9, 57:10,	163:15	127:6
95:12, 95:14, 96:9	protects [1] - 92:13	57:12, 71:2, 71:22,	quickly [3] - 104:21,	reactions [1] - 148:21
progressives [1] -	protest [1] - 94:13	82:18, 98:13, 99:1	107:15, 158:13	reactor [1] - 95:1
108:13	proud [1] - 98:7	pumps [11] - 34:10,	quiet [2] - 84:12,	read [6] - 61:1, 79:10,
prohibits [1] - 92:19	proved [2] - 8:15,	35:7, 39:16, 40:5,	84:15	97:9, 145:2, 158:4
project [8] - 21:20,	135:21	70:23, 71:5, 71:7,	quite [3] - 29:7, 47:10,	readily [1] - 161:22
74:22, 89:7, 98:18,	proven [2] - 31:23,	71:20, 72:14, 85:1,	125:6	reading [2] - 42:17,
110:19, 133:13,	162:3	115:16 purchase M = 65:8	quote [1] - 144:15	78:21
133:14, 154:19	provide [18] - 5:8,	purchase [4] - 65:8, 74:20, 128:13	quoted [1] - 132:10	readout [1] - 54:8
Project [1] - 81:10	5:12, 6:2, 6:4, 6:6,	74:20, 128:13,	quoting [1] - 98:9	readouts [1] - 54:2
projects [15] - 10:4,	43:5, 55:20, 77:19,	143:23	1	ready [3] - 65:7, 75:23
13:11, 21:4, 21:9,	80:15, 80:17, 92:23,	purchased [2] - 69:13, 128:10	R	134:13
22:23, 40:11, 65:5,	99:4, 99:10, 105:16,	128:10 purchases [2] - 64:14,		Reagan [3] - 70:4,
65:11, 74:18, 74:21, 08:13, 00:1, 116:14	114:14, 116:11,	88:18		70:5, 70:10
98:13, 99:1, 116:14,	134:13, 134:16	purchasing [1] -	racial [1] - 111:11	real [20] - 22:14, 30:3,
134:1, 155:14	provided [2] - 56:1,	128:16	radiation [2] - 109:4,	44:17, 46:6, 46:10,
proliferating [1] -	128:10	128:16 pure [1] - 17:9	109:20	73:10, 76:12, 76:17,
162:1	provider [1] - 36:23		Radio [1] - 161:6	87:8, 88:3, 107:20,
proliferation [1] -	providers [1] - 130:23	purified [1] - 17:23	radio [1] - 126:5	121:2, 122:2, 122:3
159:6	provides [7] - 4:5, 4:8,	purpose [2] - 6:12,	radioactive [2] -	125:7, 146:11,
prominent [1] - 38:8	12:21, 41:12, 41:21,	122:13	140:17, 160:15	146:14, 152:7,
	130:8, 132:15	purposes [1] - 139:12	radiological [1] -	154:15
•• •		pursued [2] - 65:10,		real time to 146:14
103:1	providing [7] - 3:20,	· · · · ·	159:7	real-time [1] - 146:14
promise [2] - 63:6, 103:1 promised [1] - 63:4 promote [7] - 21:19,	providing [7] - 3:20, 6:7, 83:22, 89:8, 101:15, 105:1,	89:11 pushed [2] - 122:9,	159:7 radon [2] - 120:21,	realistic [2] - 12:2, 142:17

reality [9] - 46:9, 67:16, 89:5, 89:10, 110:9, 112:10, 117:13, 118:5 realization [1] - 146:9 realize [2] - 55:21, 77:15 realiy [33] - 2:19, 31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	15:17, 15:18, 15:21 records [1] - 145:3 recovered [2] - 120:17, 120:18 recovering [1] - 30:7 red [1] - 127:17 redeem [1] - 105:12 reduce [10] - 35:5, 36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9 reducing [22] - 11:21,	registered [3] - 100:9, 100:12, 100:16 Registered [1] - 164:4 regularly [2] - 49:3, 54:13 regulates [1] - 102:19 regulations [2] - 68:9, 103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16 reject [1] - 45:19	20:15, 23:3, 23:13, 29:11, 30:19, 31:18, 33:4, 34:6, 37:6, 38:16, 43:7, 43:9, 43:12, 48:10, 48:15, 48:17, 56:22, 63:7, 65:20, 65:23, 67:11, 70:8, 70:21, 73:18, 73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23, 83:22, 84:5, 90:2,	52:22, 131:10 Reporter [1] - 164:5 reporter [4] - 5:12, 5:15, 6:2, 6:6 repowering [2] - 114:12, 143:9 represent [4] - 78:21, 90:10, 115:4, 157:16 representative [1] - 79:5 representatives [1] - 2:7 represented [2] -
110:9, 112:10, 117:13, 118:5 realization [1] - 146:9 realize [2] - 55:21, 77:15 realiy [33] - 2:19, 31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	recovered [2] - 120:17, 120:18 recovering [1] - 30:7 red [1] - 127:17 redeem [1] - 105:12 reduce [10] - 35:5, 36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	Registered [1] - 164:4 regularly [2] - 49:3, 54:13 regulates [1] - 102:19 regulations [2] - 68:9, 103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	33:4, 34:6, 37:6, 38:16, 43:7, 43:9, 43:12, 48:10, 48:15, 48:17, 56:22, 63:7, 65:20, 65:23, 67:11, 70:8, 70:21, 73:18, 73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	reporter [4] - 5:12, 5:15, 6:2, 6:6 repowering [2] - 114:12, 143:9 represent [4] - 78:21, 90:10, 115:4, 157:19 representative [1] - 79:5 representatives [1] - 2:7
117:13, 118:5 realization [1] - 146:9 realize [2] - 55:21, 77:15 realiy [33] - 2:19, 31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	120:17, 120:18 recovering [1] - $30:7$ red [1] - $127:17$ redeem [1] - $105:12$ reduce [10] - $35:5$ , 36:21, $36:22$ , $37:2$ , 37:19, $50:8$ , $68:15$ , 68:19, $71:21$ , $80:16reduced [2] - 139:2,162:16reduces [2] - 36:8,50:9$	regularly [2] - 49:3, 54:13 regulates [1] - 102:19 regulations [2] - 68:9, 103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	38:16, 43:7, 43:9, 43:12, 48:10, 48:15, 48:17, 56:22, 63:7, 65:20, 65:23, 67:11, 70:8, 70:21, 73:18, 73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	5:15, 6:2, 6:6 repowering [2] - 114:12, 143:9 represent [4] - 78:21, 90:10, 115:4, 157:19 representative [1] - 79:5 representatives [1] - 2:7
realization [1] - 146:9 realize [2] - 55:21, 77:15 realiy [33] - 2:19, 31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	recovering $[1] - 30:7$ red $[1] - 127:17$ redeem $[1] - 105:12$ reduce $[10] - 35:5$ , 36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced $[2] - 139:2,$ 162:16 reduces $[2] - 36:8,$ 50:9	54:13 regulates [1] - 102:19 regulations [2] - 68:9, 103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	43:12, 48:10, 48:15, 48:17, 56:22, 63:7, 65:20, 65:23, 67:11, 70:8, 70:21, 73:18, 73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	repowering [2] - 114:12, 143:9 represent [4] - 78:21, 90:10, 115:4, 157:19 representative [1] - 79:5 representatives [1] - 2:7
realize [2] - 55:21, 77:15 realiy [33] - 2:19, 31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	red [1] - 127:17 redeem [1] - 105:12 reduce [10] - 35:5, 36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	regulates [1] - 102:19 regulations [2] - 68:9, 103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	48:17, 56:22, 63:7, 65:20, 65:23, 67:11, 70:8, 70:21, 73:18, 73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	114:12, 143:9 represent [4] - 78:21, 90:10, 115:4, 157:19 representative [1] - 79:5 representatives [1] - 2:7
77:15 really [33] - 2:19, 31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	redeem [1] - 105:12 reduce [10] - 35:5, 36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	regulations [2] - 68:9, 103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	65:20, 65:23, 67:11, 70:8, 70:21, 73:18, 73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	represent [4] - 78:21, 90:10, 115:4, 157:19 representative [1] - 79:5 representatives [1] - 2:7
77:15 really [33] - 2:19, 31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	redeem [1] - 105:12 reduce [10] - 35:5, 36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	regulations [2] - 68:9, 103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	70:8, 70:21, 73:18, 73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	represent [4] - 78:21, 90:10, 115:4, 157:19 representative [1] - 79:5 representatives [1] - 2:7
31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	reduce [10] - 35:5, 36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	103:2 Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	90:10, 115:4, 157:19 representative [1] - 79:5 representatives [1] - 2:7
31:20, 31:21, 32:1, 32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	36:21, 36:22, 37:2, 37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	Regulatory [2] - 94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	73:20, 74:6, 74:8, 76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	representative [1] - 79:5 representatives [1] - 2:7
32:7, 32:17, 34:4, 42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	37:19, 50:8, 68:15, 68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	94:14, 133:8 regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	76:12, 77:5, 77:11, 78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	79:5 representatives [1] - 2:7
42:22, 47:10, 47:16, 54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	68:19, 71:21, 80:16 reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	regulatory [1] - 50:5 Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	78:3, 78:7, 78:9, 79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	representatives [1] - 2:7
54:5, 56:12, 56:13, 61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	reduced [2] - 139:2, 162:16 reduces [2] - 36:8, 50:9	Reilly [3] - 138:1, 142:3, 163:3 reiterate [1] - 141:16	79:7, 79:12, 79:17, 80:14, 80:15, 80:23,	2:7
61:11, 86:12, 89:14, 106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	162:16 <b>reduces</b> [2] - 36:8, 50:9	142:3, 163:3 reiterate [1] - 141:16	80:14, 80:15, 80:23,	
106:7, 106:9, 108:4, 115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	reduces [2] - 36:8, 50:9	reiterate [1] - 141:16		represented 21 -
115:11, 117:2, 117:3, 119:11, 121:13, 141:18, 145:20, 146:5,	50:9			
117:3, 119:11, 121:13, 141:18, 145:20, 146:5,		<b>reject</b> (1) - 45:19	92:9, 95:18, 98:16,	52:14, 100:16
121:13, 141:18, 145:20, 146:5,	reducing (22) - 11:21,			representing [4] -
145:20, 146:5,		rejects [2] - 74:4,	101:3, 113:7,	29:12, 119:15,
	18:11, 22:14, 34:20,	100:20	114:17, 116:11,	151:10, 157:6
	35:14, 37:13, 39:21,	relate [1] - 64:10	121:20, 125:22,	represents [1] -
148:9, 157:11,	49:10, 63:19, 67:3,	related [3] - 29:6,	127:12, 128:18,	133:22
157:21, 158:2,	71:19, 73:12, 74:1,	56:15, 112:8	135:5, 135:10,	repress [1] - 39:10
158:5, 160:22	74:3, 81:14, 87:10,	relationship [1] -	137:16, 137:21,	Republican (1) - 91:9
reaping [1] - 150:15	111:15, 115:22,	160:9	139:19, 139:21,	reputable [1] - 151:22
reaps [1] - 79:19	118:16, 134:10,	relative [1] - 88:12	139:23, 140:1,	request [2] - 23:23,
reason [3] - 29:12,	140:7, 160:19	release [2] - 90:22,	147:1, 149:12,	155:23
52:21, 159:15	Reduction [1] - 66:13	148:1	149:21, 150:2,	requests [1] - 158:13
reasonably [i] - 11:17	reduction [15] - 36:19,	released [3] - 61:6,	152:10, 153:20,	require [6] - 11:15,
ebates [1] - 112:4	48:8, 67:10, 68:13,	66:11, 139:7	154:3, 154:20,	50:11, 77:20, 81:22,
rebuilding (2) -	76:3, 77:13, 88:11,		155:13	103:3, 152:23
124:10, 126:22	89:4, 89:13, 90:1,	releases [4] - 22:2,	renewables [12] -	required [10] - 12:4,
recalling [1] - 146:8	100:20, 101:23,	57:21, 62:10, 140:18	42:23, 52:17, 79:14,	-
receipt [1] - 105:10	116:9, 133:18	reliability [1] - 130:10	82:19, 83:19, 122:4,	41:16, 41:23, 66:13,
	-	reliable [6] - 3:16,	123:3, 123:5,	103:7, 104:23,
receive [2] - 4:12, 6:21	reductions [1] -	12:21, 130:1,	124:12, 124:18	105:5, 105:7,
received [3] - 5:1,	152:18	131:19, 133:15,	154:6, 156:14	105:11, 131:6
65:6, 83:9	reefs [1] - 91:2	134:7	renewal [1] - 133:4	requirement [2] -
receiving [2] - 112:5,	reelect [1] - 145:5	Reliable [1] - 129:21	renovated [1] - 33:20	54:1, 143:12
161:19	refer [1] - 66:10	reliance [4] - 18:7,	renovating [1] - 81:19	requirements [1] -
recent [4] - 11:19,	reference [1] - 18:13	20:16, 155:21, 159:8	-	114:1
13:16, 17:18, 149:4	referring [1] - 132:12	relief [2] - 114:14,	repair [3] - 56:5, 56:7,	requires [4] - 17:10,
recently [6] - 12:15,	refers [1] - 50:21	119:8	104:12	102:12, 103:19,
17:7, 38:4, 138:13,	refillable [1] - 95:21	rely [3] - 13:20, 20:22,	repaired [1] - 103:16	114:1
153:4, 158:3	reflect [1] - 149:19	22:11	repairing [2] - 30:7,	rescue [1] - 131:7
Recess [1] - 86:7	reflective [1] - 81:13	relying [3] - 12:7,	103:4	research [6] - 10:3
recharged [1] - 50:16	refrigerator [1] -	39:6, 150:5	repeat [2] - 6:14,	13:17, 136:22,
recognition [1] -	135:15	remained [2] - 86:21,	91:21	137:15, 138:10,
162:11	refuse [2] - 68:21,	91:5	replace [3] - 44:23,	154:4
recognize [2] - 30:2,	68:23		84:20, 103:8	RESEARCH [1] - 1:1
67:2	regard [1] - 67:7	remaining [3] - 4:13,	replaced [3] - 36:18,	Research [3] - 2:3.
recommend [2] -		58:5, 58:6	53:14, 103:12	75:2, 111:21
51:23, 116:21	regarding [3] - 51:23,	remarkable [1] - 77:21	replacement [1] -	
recommendation [1] -	52:9, 98:23	remarks [2] - 102:7,	23:21	reserves [2] - 14:7,
	regardless [4] - 4:23,	135:4	replacing [1] - 67:10	132:1
151:4	43:8, 118:9, 121:15	remedy [1] - 8:20	repollute [1] - 107:17	reservoir [3] - 104:4,
recommendations [2]	region [6] - 20:7,	remember [5] - 18:15,	report [11] - 13:16,	104:9, 104:10
- 56:12, 85:9	25:19, 79:21, 134:7,	93:18, 109:15,	14:20, 52:19, 53:3,	reservoirs [1] - 104:6
recommit [1] - 139:18	134:16, 134:17	157:10, 163:16		resident [13] - 19:1,
record [9] - 2:18,	region's [2] - 21:17,	reminisce [1] - 137:19	55:16, 85:1, 109:2,	27:23, 46:17, 61:22
34:11, 67:1, 78:23,	134:12	remove [1] - 50:5	117:4, 118:5, 118:6,	81:9, 82:3, 95:11,
94:12, 131:11,	regional [1] - 157:1	Renewable [2] -	125:17	95:23, 98:6, 112:23
131:13, 131:23,	Regional [1] - 98:20	76:23, 156:11	Report [1] - 139:7	142:10, 145:15,
152:4	regionally [1] - 156:22	renewable [75] - 8:23,	REPORTED [1] - 1:21	158:18
recorded [4] - 15:14,	Register [1] - 3:11	9:4, 9:7, 15:5, 20:3,	reported [3] - 16:1,	residential [9] - 35:1,

40:6, 53:19, 71:1, 83:17, 116:7, 139:9, 153:5, 160:21 residents [9] - 25:21, 27:7, 80:3, 98:16, 112:7, 125:8, 147:7, 153:7, 153:9 resilient [2] - 3:15, 3:20 resistance [2] - 35:8, 71:23 resolution [1] - 110:1 resource [5] - 23:18, 31:19, 32:14, 36:12, 77:22 resources [16] - 12:4, 12:8, 27:13, 65:2, 66:2, 67:11, 68:5, 70:8, 74:14, 77:18, 78:2, 95:18, 103:7, 137:5, 149:10 Resources [1] - 98:4 respect [2] - 2:20, 95:5 respectfully (2) -145:1, 145:7 respiratory [1] -122:15 respond [1] - 96:4 responders [2] -153:9, 153:11 response [9] - 7:11, 82:12, 97:20, 106:23, 110:17, 114:21, 142:4, 142:6, 163:4 responsible [2] -99:17, 104:17 responsibly [2] -142:21, 144:19 rest [3] - 78:12, 88:18, 133:3 restaurant [1] - 38:5 restaurants [1] -128:14 restrooms [1] - 2:15 restructuring [2] -117:22, 158:4 result [5] - 3:13, 34:5, 54:12, 55:1, 112:16 resulting [2] - 64:17, 147:20 resume [1] - 86:9 retailers [1] - 105:22 retained [1] - 144:17 rethink [1] - 69:7 retired [1] - 108:10 retiring [1] - 23:21 retraining [3] - 114:8, 143:1, 143:10

retrofit [4] - 85:2, 114:15, 116:6, 125:22 retrofitted [2] - 36:19, retrofitting [1] - 49:15 return [2] - 116:13, 149:16 returned [2] - 15:10, revenue [1] - 106:9 reverse [1] - 19:17 reviewed [1] - 125:9 reviewing [1] - 110:22 revisit [1] - 76:17 revitalization [1] -111:9 revitalize [2] - 115:11, 130:20 revitalizing [1] - 118:3 RFPs [1] - 85:14 rhetoric [1] - 146:4 Rhode [1] - 45:5 Rhodes [5] - 1:12, 2:2, 31:11, 98:3, 142:8 RHODES [51] - 2:1, 7:8, 8:10, 9:11, 10:13, 14:23, 18:16, 18:22, 23:5, 25:11, 27:17, 28:21, 31:4, 33:14, 38:11, 42:7, 46:15, 47:12, 51:15, 56:17, 58:12, 61:16, 66:16, 70:14, 72:21, 76:20, 78:15, 81:5, 82:10, 86:4, 86:8, 90:7, 95:4, 97:18, 102:4, 106:20, 110:13, 114:19, 119:3, 124:23, 129:14, 135:2, 137:22, 142:2, 145:12, 146:16, 151:8, 155:22, 158:12, 158:16, 162:22 Rhyner [2] - 82:13, RHYNER [1] - 82:14 Rich [3] - 125:1, 129:15, 129:19 rid [1] - 95:2 Ridge [1] - 37:18 rig (1) - 83:6 rights [1] - 88:9 rip [1] - 46:3 rise [4] - 69:5, 91:1, 93:22, 132:4 rising [1] - 13:17 risk [5] - 17:4, 21:9,

113:9

128:7

82:15

76:5, 143:15, 154:16 risks [4] - 103:23, 140:20, 153:2, 153:14 River [5] - 58:9, 68:2, 102:19, 104:7, 132:12 Riverkeeper [1] -60:16 road [4] - 14:3, 27:5, 153:18, 161:4 Road [1] - 1:9 roadmap[1] - 78:13 roads [2] - 27:4, 148:8 Robert [6] - 90:8, 95:9, 97:19, 110:16, 158:14, 163:2 Roberti [2] - 33:15, 33:18 ROBERTI [1] - 33:16 Robinson [3] - 107:2, 110:14, 110:18 ROBINSON [1] -110:18 robust [1] - 118:23 Roche [1] - 156:20 rock [1] - 83:3 Rockaway [1] - 120:18 Rockaways [4] - 65:9, 74:23, 120:16, 121:12 rocket [1] - 91:23 Roff [4] - 114:23, 119:4, 119:5, 125:3 ROFF [1] - 119:5 Roger [3] - 27:18, 28:22, 28:23 role [4] - 13:23, 31:1, 43:10, 71:5 rolling [3] - 60:11, 127:17, 131:7 Ronald [2] - 70:5, 70:10 Roof [1] - 81:10 roof [7] - 13:15, 28:3, 81:23, 104:23, 105:1, 135:13, 150:11 roofing [2] - 81:17, 81:23 roofs [3] - 81:12, 81:19, 81:21 rooftop[1] - 93:2 room [2] - 156:4, 158:14 rooms [1] - 162:2 Roosevelt [2] - 1:8, 57:8 roots [2] - 42:16, 62:3 rose [1] - 88:18

148:11 rough [1] - 107:20 round [1] - 135:18 route [1] - 99:10 routes [2] - 50:14, 120:19 RPR [1] - 1:21 rule [3] - 52:7, 56:11, 96:16 ruled [2] - 67:18, 117:23 run [7] - 8:20, 8:22, 12:9, 14:9, 56:6, 151:4, 152:10 running [4] - 26:18, 61:11, 106:12, 127:8 runs [1] - 107:16 rush [1] - 68:5 Russians [1] - 91:22 Ryan [2] - 142:7, 142:9 RYAN [1] - 142:8 S Sabatini [2] - 15:1, 18:23 SABATINI [1] - 19:1 sacrifice [1] - 129:3 saddled [1] - 13:3 sadly [2] - 119:16, 135:23 safe [2] - 46:8, 54:5 safeguarding [2] -11:4, 142:18 safer [3] - 71:7, 72:10, 72:14 safety [8] - 21:9, 94:12, 103:10, 112:12, 133:8, 143:7, 153:2, 160:9 sakes [2] - 44:7, 45:9 sales [2] - 40:3, 88:15 salt [1] - 161:4 sanctuary [1] - 91:13 sand [2] - 58:7, 121:5 sands [3] - 57:18, 124:5, 146:6 Sandy [10] - 19:4, 20:6, 20:17, 30:6, 63:1, 73:9, 76:4, 86:16, 119:8, 124:11 Sandy's [1] - 146:8 Sandys [2] - 87:7, 93:19 Saturday [1] - 26:1 save [9] - 53:16, 81:13, 82:2, 91:12,

Rosendale [1] -

91:13, 91:14, 138:20 saved [2] - 91:15, 136:13 saving [3] - 49:9, 98:15, 106:7 savings [3] - 99:3, 129:4, 133:22 saw [2] - 46:2, 75:17 scale [5] - 14:2, 59:2, 65:23, 83:16, 101:5 scaleable [3] - 83:16, 85:22, 86:2 scheduled [2] - 4:13, 102:21 school [3] - 50:12, 113:8, 151:4 schools [4] - 40:12, 67:14, 154:14, 155:8 Schweiger [2] -114:22, 115:3 SCHWEIGER [1] -115:1 science [2] - 62:6, 87:22 Science [1] - 109:3 scientific [7] - 19:8, 93:13, 108:5, 108:11, 108:17, 141:12, 141:14 scientist [1] - 151:22 scientists [5] -108:18, 109:7. 136:16, 141:3, 141:4 scope [2] - 55:20, 115:12 scrap [1] - 134:1 sea [2] - 91:1, 93:21 Seafood [2] - 38:5, 56:4 · search [1] - 17:21 seasonal [1] - 41:18 seated [1] - 11:1 second [8] - 4:7, 12:5, 65:13, 68:1, 99:7, 117:21, 135:22, 139:1 secondly [1] - 65:16 secret [1] - 108:12 Secretary [3] - 93:23, 151:15, 151:21 section [4] - 49:22, 99:15, 101:2, 107:18 sections [1] - 48:7 sector [12] - 3:19, 11:12, 13:8, 29:20, 39:15, 49:22, 72:6, 72:17, 78:4, 99:16, 99:17, 114:5 sectors [3] - 10:18, 49:1, 143:13

secure [1] - 103:4 see [29] - 30:16, 43:2, 48:3, 52:13, 53:2, 55:15, 62:17, 64:2, 76:2, 80:12, 82:5, 88:7, 89:16, 89:23, 90:4, 109:22,	services [4] - 101:6, 103:15, 117:17, 134:15 session [4] - 4:13,	154:15 showed [2] - 76:4, 109:3	situation [4] - 121:11, 141:2, 141:18, 141:20	67:12, 69:14, 69:16, 70:5, 70:22, 73:11,
48:3, 52:13, 53:2, 55:15, 62:17, 64:2, 76:2, 80:12, 82:5, 88:7, 89:16, 89:23,	134:15 session [4] - 4:13,		141:2, 141:18,	70:5, 70:22, 73:11,
48:3, 52:13, 53:2, 55:15, 62:17, 64:2, 76:2, 80:12, 82:5, 88:7, 89:16, 89:23,	134:15 session [4] - 4:13,			
55:15, 62:17, 64:2, 76:2, 80:12, 82:5, 88:7, 89:16, 89:23,			171.20	77:23, 82:6, 83:22,
76:2, 80:12, 82:5, 88:7, 89:16, 89:23,		showing [2] - 152:7,	Six [1] - 59:3	89:13, 90:3, 92:10,
88:7, 89:16, 89:23,	78:20, 79:9, 163:18	154:4	six [8] - 4:11, 12:17,	93:1, 97:3, 97:11,
	sessions [1] - 4:11	shown [2] - 26:17,	15:14, 125:5, 126:6,	97:14, 109:3,
	set [9] - 6:12, 26:7,	148:11	132:8, 156:1, 163:1	109:19, 113:6,
118:20, 123:22,	48:8, 48:21, 98:7,	shows [4] - 71:12,	skies [1] - 109:15	115:16, 118:10,
127:4, 127:11,	130:12, 131:10,	73:13, 75:4, 156:2	skilled [3] - 130:18,	136:6, 150:10,
136:18, 136:21,	139:20	shut [3] - 13:2,	143:3, 143:4	153:21, 154:13,
141:12, 141:15,	seven [5] - 15:23,	104:19, 122:21	sky [4] - 109:15,	154:23, 155:9,
150:20, 151:20,	32:20, 112:1,	sibling [1] - 147:16	109:16, 109:22,	157:10, 157:11,
156:2, 157:9, 158:5	126:13, 145:16	sick [4] - 7:21, 53:3,	110:1	157:12, 157:15,
Seeger [1] - 60:21	several [6] - 27:20,	53:7, 120:15	slammed [1] - 20:6	157:16, 161:14
seeing [4] - 7:12,	53:4, 96:7, 97:10,	sicken [1] - 141:22	slash [1] - 152:8	solarPV [1] - 70:22
19:11, 59:12, 75:7	140:23, 156:20	sickness [2] - 71:10,	sleep (1) - 53:20	sold (1) - 105:4
seeking [3] - 31:8,	severe [2] - 17:9, 55:6	159:7	slice [1] - 134:20	solution [5] - 39:9,
115:10, 117:16	shale [11] - 68:3,	side [2] - 17:6, 90:20	slightly [1] - 86:18	65:1, 121:19,
sees [2] - 9:22, 101:2	87:16, 90:4, 90:22,	sides [1] - 2:14	slow [2] - 43:20, 93:14	133:11, 140:16
segment [1] - 69:15	92:17, 92:20,	sidewalks [3] - 7:16,	slowdown [2] - 110:9,	solutions [5] - 63:13,
seismic [1] - 143:15	148:13, 148:15,	7:17, 7:18	110:10	98:9, 101:21,
seize [2] - 101:17,	150:14, 152:23,	Sierra [8] - 25:17,	slowing [3] - 108:12,	146:11, 162:12
102:1	154:21	47:19, 47:20, 62:1,	108:15, 108:16	someone [5] - 26:22,
selectively [1] - 13:10	shall [1] - 96:17	62:2, 66:5, 73:1,	slowly [1] - 5:19	89:17, 105:15,
self [3] - 88:5, 88:8,	shaped [1] - 146:7	75:1	smail [4] - 26:2, 33:21,	141:21, 157:3
162:10	share [6] - 45:4, 49:7,	sign [4] - 5:6, 7:9,	97:13, 136:13	somewhat [1] - 80:1
seller [1] - 130:16	100:11, 115:2,	65:7, 123:20	smaller [1] - 150:8	somewhere [4] -
selling [4] - 105:11,	129:18, 150:22	signatures [1] - 75:3	smart [3] ~ 99:6,	106:16, 134:3,
105:23, 107:8,	shatter [1] - 148:14	significant [7] - 13:23,	101:11, 101:12	158:20, 158:23
107:10	shedding [1] - 84:18	43:10, 74:17, 113:6,	Smithtown [1] - 28:12	son [1] - 55:6
sells [1] - 105:15	sheet [2] - 92:7,	131:15, 154:1, 154:9	smothering [1] -	soon [3] - 4:19, 98:17,
Senator [2] - 78:19	132:20	significantly [1] -	129:8	140:13
senator's [1] - 78:22	shelter [1] - 104:20	12:15	snow [3] - 7:16, 7:21,	sorry [2] - 47:18,
senators [1] - 128:4	Sherman [1] - 38:17	silence [1] - 26:23	131:2	146:20
send [2] - 18:8, 56:21	shifts [1] - 37:7	silent [3] - 45:6, 91:6	snowblowers [1] -	sort [4] - 107:11,
Seneca [1] - 21:6	shingles [1] - 82:1	Silver [1] - 33:21	106:4	157:9, 157:14, 158:2
senior [1] - 19:21	ship [2] - 93:11,	similarly [1] - 127:6	snowstorms [1] - 8:1	Sound [1] - 89:6
sense [1] - 95:16	127:16	Similarly [1] - 55:19	Snyder [3] - 1:15, 2:9,	sound [2] - 46:8,
sensitive [1] - 21:17	shipped [1] - 58:8	simple [5] - 5:4, 22:8,	31:12	68:13
sent [2] - 91:22,	ships [2] - 60:20	97:2, 159:16	so-called [2] - 57:9,	sounding (1) - 151:23
161:16	94:21	simplicity [1] - 41:21	150:5	sounds [2] - 107:22,
sentiments [1] -	shock [1] - 26:2	simply [1] - 12:8	social [2] - 111:11,	107:23
139:17	shopping [1] - 67:13	single [2] - 46:4,	138:22	source [14] - 35:6,
SEP [1] - 163:12	shops [1] - 38:5	109:22	socioeconomic [1] -	36:13, 41:13, 44:23,
September [1] - 89:17	shore [6] - 21:16,	sister [5] - 15:11,	111:15	57:10, 57:12, 69:21,
sequence [1] - 16:15	44:21, 76:8, 86:15,	17:17, 99:10,	soft [1] - 11:23	71:1, 71:22, 89:1,
serious [7] - 3:14,	87:2, 146:1	147:12, 147:17	soil [3] - 8:16, 8:17,	98:13, 98:18,
38:7, 73:14, 74:3,	Shoreham [4] - 13:3,	sister's [2] - 15:15,	127:22	115:16, 153:23
75:21, 153:6, 160:5	57:1, 132:19, 140:23	15:19	Solar [1] - 155:8	sources [21] - 4:8,
seriously [1] - 128:19	shores [1] - 66:7	sit [3] - 14:14, 31:13,	solar [68] - 8:23, 10:1,	12:10, 12:17, 13:14,
seriousness [1] -	short [4] - 36:10,	137:18	13:14, 13:22, 18:11,	13:21, 14:4, 14:6,
163:12	50:14, 127:8, 143:2	site [1] - 150:1	18:14, 27:13, 28:2	17:21, 18:10, 19:9,
serve [1] - 155:8	shortage [4] - 17:7,	sited [5] - 134:3,	28:4, 28:7, 28:8,	19:16, 29:11, 68:7,
served [1] - 30:1	17:9, 132:4, 143:3	144:1, 144:4,	28:9, 28:14, 28:16,	79:12, 80:14,
serves [1] - 12:22	shortages [1] - 162:15	158:20, 158:22	30:11, 30:12, 33:23,	125:21, 125:23,
Service [5] - 1:13, 2:9,	shortly [1] - 129:22	sites [1] - 17:15	39:17, 39:22, 40:4,	140:2, 140:15,
117:23, 143:22,	shoveling [2] - 7:16,	siting [1] - 162:6	40:6, 40:19, 42:23,	147:21, 154:3
145:7	7:21	Siting [1] - 130:5	46:12, 56:23, 57:4,	South [1] - 86:22
service [4] - 10:18,	show [4] - 108:15,	sitting [4] - 19:3,	57:5, 59:17, 59:20,	south [4] - 44:21,
106:9, 124:3, 124:20	135:12, 136:17,	27:22, 31:19, 58:20	64:18, 64:20, 65:21,	76:8, 86:15, 87:2
		, 01110, 00.20		

				•
southeast [1] - 15:19	squamous [1] -	2:5, 2:13, 3:4, 3:5,	143:17, 147:19	146:14
southern [5] - 87:16,	147:14	3:11, 8:2, 8:6, 9:3,	statewide [2] - 68:1,	strategy [1] - 98:23
88:5, 90:4, 154:12,	squander [1] - 155:20	9:10, 10:2, 11:7,	115:6	streamlining [1] -
155:4	square [2] - 69:15,	15:6, 18:2, 18:20,	stating [3] - 48:1,	158:6
southwest [1] - 17:8	69:23	19:14, 19:15, 32:16,	141:4, 141:6	Street [2] - 129:5,
sown [1] - 150:15	stability [1] - 65:13	34:18, 38:7, 39:2,	Station [2] - 10:10,	161:6
space [2] - 91:22,	stabilization [1] -	39:3, 42:16, 43:11,	144:5	strength [1] - 79:20
144:3	133:20	43:14, 43:17, 45:16,	station [6] - 21:4,	strengthen [2] -
spaces [1] - 37:23	stable [2] - 65:13,	45:23, 46:20, 56:13,	59:22, 94:9, 127:23,	68:21, 78:10
SPEAKER [1] - 7:7	126:19	58:7, 58:8, 59:20,	149:23, 153:4	strengthening [1] -
speaker [4] - 5:10,	stack [1] - 67:16	61:19, 61:20, 67:6,	stations [4] - 20:21,	49:8
5:15, 7:12, 56:20	staff [2] - 9:15, 73:5	67:17, 68:4, 77:3,	50:6, 153:1, 153:15	strive [1] - 80:13
speaker's [1] - 18:13	stand [2] - 58:2, 61:10	77:9, 77:15, 78:19,	status [2] - 55:18,	strong [8] - 16:17,
speakers [8] - 5:17,	standard [2] - 72:1,	79:14, 80:20, 81:1,	143:9	43:3, 73:11, 75:15,
5:23, 6:8, 6:14, 95:6,	158:5	81:16, 81:22, 82:5,	stay [1] - 30:18	75:18, 76:12,
139:18, 160:6, 163:5	standards [6] - 33:22,	82:6, 87:1, 90:14,	staying [1] - 15:18	116:19, 149:20
<b>speaking</b> [4] - 57:15,	49:3, 49:8, 84:5,	90:15, 93:23, 94:5,	steam [1] - 143:19	stronger [3] - 62:23,
76:16, 115:4, 141:1	106:2, 121:2	98:7, 99:4, 109:18,	steep [1] - 132:4	73:17, 99:5
special [1] - 103:23	standing [2] - 128:5,	111:17, 111:21,	steeped [1] - 81:23	strongly [2] - 19:13,
specializing [1] -	129:7	113:15, 116:18, 116:20, 119:20,	stenographic [1] -	54:9
70:22	Star [2] - 33:21, 82:1	119:22, 120:2,	164:7	structure [2] - 26:20,
specific [12] - 24:2,	stark [1] - 21:23	120:14, 124:9,	step [1] - 124:13	118:23
43:3, 48:2, 48:7,	start [9] - 23:11,	125:6, 125:7,	Stephen [1] - 53:1	structures [1] - 118:13
48:9, 49:11, 52:12,	70:12, 74:3, 80:22,	126:19, 126:21,	stepping [1] - 68:4	struggling [2] - 20:9,
63:10, 66:9, 67:7,	92:7, 107:15,	127:20, 128:19,	steps [4] - 48:9, 63:17,	132:16
88:8, 139:3	117:16, 130:9, 137:3	129:19, 130:6,	66:9, 147:23	studied [2] - 161:14,
specifically [7] -	started [2] - 2:12,	133:1, 133:4,	stick [1] - 146:4	161:19
13:14, 47:22, 73:22,	110:11	137:17, 139:15,	sticking[1] - 121:4	studies [4] - 85:16,
85:15, 100:4, 118:6, 147:10	starters [1] - 130:12	140:13, 141:13,	still [8] - 30:7, 44:6,	86:1, 108:15, 156:7
specifics [1] - 53:2	starting [2] - 120:23, 160:23	142:13, 142:16,	44:10, 69:17, 99:21,	Studies [1] - 135:11
specifying [1] - 40:5	state [67] - 8:8, 12:1,	142:19, 143:19,	136:3, 140:21, 146:8	study [8] - 14:12,
Spectra [1] - 21:5	12:7, 12:10, 13:10,	144:6, 144:18,	stimulate [2] - 20:23, 130:20	16:13, 134:19, 151:3, 156:13,
speed [5] - 44:22,	14:11, 16:9, 17:19,	144:21, 145:6,		156:15, 156:19,
65:10, 93:12, 150:8,	25:8, 27:8, 32:15,	145:8, 145:9, 147:1,	stock [3] - 85:4, 107:8, 107:11	156:23
150:13	35:17, 35:23, 42:13,	147:2, 147:3,	stone [1] - 68:5	subject [3] - 55:11,
speeds [1] - 79:21	42:18, 43:4, 47:20,	149:13, 151:15,	stone's [1] - 70:19	110:8, 132:7
spend [2] - 22:18,	48:20, 49:14, 50:7,	151:21, 152:6,	Stony [1] - 135:11	submit [3] - 4:18, 7:1,
108:6	55:2, 62:4, 63:22,	152:11, 153:20,	stop [9] - 22:22, 57:1,	134:23
spending [2] - 77:16,	64:8, 66:10, 79:8,	155:8, 163:6, 163:7,	77:16, 80:22,	submitted [2] - 127:9,
126:22	79:22, 80:12, 80:21,	163:13, 164:5	144:12, 144:13,	163:17
spent [2] - 10:17,	82:7, 83:7, 83:9,	state's [13] - 4:6 12:17 14:17 17:4	144:20, 150:3, 150:4	submitting [2] - 4:16,
14:12	84:2, 86:1, 87:15,	12:17, 14:17, 17:4, 48:10, 49:12, 63:19,	stopped [1] - 122:23	117:8
<b>spiking</b> [1] - 69:4	87:21, 95:12, 99:18,	66:10, 87:10,	storage [9] - 14:2	subsequent [2] -
spill [1] - 128:9	99:19, 100:12,	130:21, 139:22,	20:21, 21:6, 43:1,	132:8, 161:9
spills [1] - 92:12	100:17, 102:12,	149:17, 150:1	46:12, 99:14,	subsidies [3] - 13:13,
spinning [1] - 14:6	112:13, 116:2,	State's [2] - 66:21,	101:22, 136:13,	96:22, 123:4
spiral [1] - 161:23	116:6, 125:18,	98:8	160:15	subsidize [2] - 13:11,
spirit [5] - 91:18,	126:21, 130:8,	statement [6] - 5:8,	store [3] - 105:11,	96:23 <sup>,</sup>
91:19, 91:20, 92:5,	130:13, 130:16,	6:2, 6:19, 10:7,	136:19, 148:6	subsidizing [6] - 51:9,
92:6	130:19, 130:23,	27:21, 69:9	storm [5] - 73:9, 76:4,	51:10, 97:1, 122:23,
spoil [1] - 80:3	134:18, 134:22, 137:6, 139:4,	statements [1] - 76:15	86:17, 86:20, 93:19	123:1, 123:12
spoken [2] - 48:12,	139:18, 142:23,	States [4] - 10:22,	storms [6] - 19:11,	subsidy [1] - 107:12
76:16	144:17, 145:5,	38:21, 80:11, 94:14	62:22, 63:1, 87:7,	substantive [2] -
spotlight [1] - 17:7	149:9, 150:6,	states [15] - 18:4,	131:3	44:18, 154:4
spraying [2] - 110:1,	153:22, 155:2,	20:23, 22:12, 68:5,	straight [1] - 123:19	substituting [2] -
110:11	155:18, 156:9, 158:9	68:9, 68:21, 81:18,	stranglehold [1] -	45:11, 161:5
spread [1] - 62:19	STATE [1] - 1:1	83:20, 84:3, 84:6,	131:1	subzero [1] - 131:2
spring [1] - 5:2	State [106] - 1:15, 2:3,	84:9, 92:22, 130:15,	strategic [1] - 100:7	succeed [1] - 96:14
<b>spur</b> [2] - 49:9, 117:19			strategies [2] - 99:3,	succeeded [1] - 88:17

.....

.

26

,

success [2] - 113:19, 155:16 successful [1] - 11:9 successive [1] - 86:23 succinct [1] - 6:10 suffer [2] - 57:16, 68:10 suffered [2] - 49:5, 55:6 suffering [2] - 127:21, 153:11 Suffolk [3] - 109:23, 111:19, 147:11 suggest [3] - 64:6, 137:13, 140:12 suggested [1] - 85:9 suggesting [1] -138:19 suggestion [2] - 52:6, 160:4 Sullivan [3] - 61:17, 66:17, 66:19 SULLIVAN [1] - 66:18 summary [2] - 72:14, 89:23 summer [10] - 37:3, 37:8, 62:19, 62:21, 81:14, 82:2, 84:19, 103:14, 133:16, 136:8 sun [3] - 59:18, 136:13, 154:21 Sun [5] - 23:14, 64:17, 73:11, 74:2, 155:7 Sunday [1] - 15:12 SUNY [2] - 1:8, 60:9 super[4] - 60:2, 63:1, 73:8, 93:19 Super [1] - 76:4 supplemental [1] -41:23 supplied [2] - 43:14, 104:13 supplies [3] - 103:12, 127:20, 133:5 supply [15] - 12:20, 13:23, 17:5, 29:10, 101:9, 102:15, 102:17, 103:1, 103:21, 104:2, 104:14, 107:16, 132:4, 134:8, 137:12 Supply [1] - 70:18 support [22] - 13:7, 34:13, 52:10, 52:16, 53:18, 77:11, 84:4, 98:16, 99:5, 105:2, 112:20, 113:14, 113:17, 114:3, 118:2, 126:10,

126:13, 137:2, 139:22, 142:19, 149:21, 153:19 supporters [1] - 73:3 supporting [2] -14:17, 114:12 supportive [1] - 52:5 supports [1] - 138:10 supposed [2] - 44:20, 122:14 surcharge [1] - 132:6 surfacing [1] - 41:3 surge [2] - 19:4, 86:20 surpassing (1) -153:22 surprised [1] - 64:5 surrounding [2] -83:20, 148:15 Survey [1] - 16:1 survival [1] - 59:5 survivor [3] - 147:12, 147:13, 147.14 suspect [1] - 89:21 suspected [1] - 26:11 Sustainability [3] -51:18, 52:3, 98:21 sustainability [5] -11:4, 38:16, 112:15, 157:1 sustainable [12] -27:13, 68:7, 77:7, 98:17, 101:3, 111:9, 111:13, 112:21, 113:23, 125:23, 128:19, 129:9 sweater [1] - 150:10 switch [3] - 61:7, 125:22, 147:21 switches [2] - 105:20, 105:23 switching [3] - 35:15, 36:6, 103:18 swoop [1] - 60:21 Synapse [1] - 156:12 Syracuse [1] - 4:13 System [2] - 10:21, 131:10 system [39] - 3:15, 13:2, 24:10, 36:15, 37:1, 37:2, 37:7, 37:14, 39:12, 41:7, 41:8, 50:17, 56:9, 71:2, 71:16, 72:2, 85:20, 102:17, 103:1, 103:21, 104:2, 104:4, 104:10, 104:23, 113:23, 118:7, 119:12, 122:5, 122:6, 122:8, 123:5,

131:18, 131:19, 132:9, 132:17, 135:13, 136:2, 137:6 systems [28] - 28:14, 34:1, 34:13, 34:16, 36:18, 38:8, 39:1, 40:14, 41:8, 41:9, 42:3, 54:11, 68:22, 71:7, 72:7, 82:19, 83:15, 84:3, 85:2, 85:17, 85:23, 106:13, 117:1, 126:8, 131:4, 137:4, 159:13, 162:1 Τ table [2] - 90:5, 161:9 tabled [1] - 110:2 takeaway [2] - 144:23, 145:3 takers [1] - 86:2 talent [1] - 137:8 talks [3] - 62:13, 69:2, 143:15 tall [1] - 30:16 tank [2] - 60:17, 60:18 tanks [1] - 26:12 tar [5] - 57:17, 58:7, 81:12, 81:20, 124:5 target [7] - 17:18, 32:2, 35:12, 48:23, 64:7, 139:23, 154:11 targeted [1] - 148:15 targeting [2] - 5:2, 67:9 targets [7] - 30:19, 43:3, 48:2, 63:18, 67:8, 73:23, 74:8 task [2] - 34:7, 159:16 tax [15] - 40:3, 40:6, 40:9, 88:11, 88:13, 88:23, 90:2, 98:15, 105:3, 114:14, 129:4, 137:13, 144:12, 149:16, 151:3 taxing [2] - 88:11, 104:23 taxpayer [1] - 144:8 taxpayers [1] - 142:23 teach [1] - 138:5 tearing [1] - 148:8 technique [1] - 162:5 technologies [5] -95:15, 101:11, 113:7, 115:23, 160:21 technology [16] -

25:9, 34:16, 37:15, 39:2, 39:11, 43:21, 44:14, 50:15, 72:18, 83:3, 83:16, 84:15, 99:6, 101:6, 135:5, 154:5 teeth [1] - 128:8 television [2] -124:16, 162:13 temperature [1] -41:13 temperatures [4] -62:19, 62:21, 131:2, 136:5 temporary [1] - 8:20 ten [3] - 56:12, 58:6, 93:4 tenth [1] - 104:18 term [7] - 4:1, 4:2, 36:10, 66:12, 126:18, 154:3 terminal [2] - 21:7, 67:21 terminals [1] - 67:22 terms [4] - 49:2, 60:2, 62:16, 64:19 terrible [1] - 32:23 territory [1] - 83:8 terrorism [1] - 94:2 Terry [4] - 2:21, 106:21, 107:1, 107:3 test [2] - 56:10, 116:21 testify [3] - 71:4, 119:11, 119:19 testimony [2] - 43:8, 119:15 tests [1] - 54:18 tex [1] - 85:14 Texas [3] - 17:8, 17:16, 95:13 thankfully [1] - 160:11 thanking [1] - 98:2 Theater [1] - 1:8 theater [1] - 148:11 themselves [1] - 129:3 Theodore [1] - 57:8 theoretical [1] -136:16 theorist [1] - 110:6 thereby [2] - 134:9, 162:16 therefore [5] - 50:17, 53:14, 87:9, 114:9, 141:10 thermal [6] - 69:16, 70:22, 83:23, 157:10, 157:11, 157:15 thermostat [1] -150:10

thinkers [1] - 86:13 thinking [3] - 29:16, 96:17, 126:21 thinkprogress.org [1] - 89:1 Thomas [3] - 125:1, 129:15, 129:19 THOMAS [1] - 129:17 thoughtful [1] - 3:14 thoughts [3] - 86:12, 130:9, 150:23 thousand [1] - 69:4 thousands [6] - 19:5, 50:13, 53:5, 55:22, 73:3, 119:15 threat [4] - 21:22, 62:9, 63:8, 94:2 threaten [2] - 21:16, 64:22 threatening [1] - 60:7 threatens [1] - 21:11 threats [1] - 62:6 three [8] - 16:6, 28:1, 58:5, 86:22, 88:10, 96:5, 98:11, 121:13 thrived [1] - 145:23 throughout [9] - 8:6, 8:8, 30:23, 37:9, 48:2, 66:10, 79:8, 111:16, 120:14 throw [2] - 70:19, 92:6 thyroid [1] - 147:13 ticking [1] - 94:8 tidal [1] - 97:4 tides [1] - 86:23 tier [4] - 87:16, 90:4, 154:12, 155:4 tier's [1] - 88:5 ties [2] - 9:22, 54:14 tighten [1] - 81:16 tighter [1] - 126:2 Tim [3] - 137:23, 142:3, 163:3 TIME [1] - 1:7 timelines [1] - 67:8 timely [1] - 103:9 timetables [1] - 30:20 timid [1] - 100:22 tinker[1] - 137:4 tip [1] - 152:3 tired [1] - 7:15 Titanic [1] - 93:10 TOBY [2] - 158:15, 158:17 Toby [1] - 158:17 today [50] - 2:4, 2:8, 2:22, 5:4, 5:12, 5:14, 6:5, 6:17, 7:4, 9:17, 13:6, 20:8, 20:11, 20:13, 20:14, 25:18,

31:6, 31:12, 33:12, 39:13, 47:22, 48:12, 51:22, 52:14, 58:3, 65:6, 65:8, 65:18, 70:12, 73:7, 78:21 79:8, 81:8, 91:16, 94:19, 98:12, 99:8, 99:14, 100:13, 101:19, 105:22, 110:21, 115:4, 115:15, 117:9, 130:2, 131:18, 142:14, 160:12 today's [6] - 10:7, 16:19, 67:22, 79:2, 79:4, 160:5 together [7] - 9:22, 20:10, 44:21, 77:19, 139:13, 157:4, 158:7 Tom [2] - 142:7, 142:9 tons [2] - 37:20, 99:23 took [2] - 86:15, 121:6 tools [1] - 137:8 top [1] - 26:19 topic [1] - 50:20 tornados [2] - 19:12, 93:20 total [6] - 34:2, 35:11, 35:18, 99:20, 143:12, 150:18 totally [1] - 63:11 touch [3] - 51:21, 104:21, 138:21 toward [4] - 4:22, 63:13, 63:23, 123:5 towards [10] - 31:18, 77:18, 84:4, 118:3, 121:20, 122:7, 123:2, 124:18, 149:12, 158:6 towers [1] - 41:10 town [2] - 26:2, 153:3 Town [2] - 34:6, 91:9 town's [1] - 17:4 township [1] - 28:15 toxic [5] - 17:1, 68:11, 120:21, 140:18, 153:12 trace [1] - 91:8 track [1] - 64:3 tracking [1] - 35:11 traditional [2] - 29:14, 71:6 traffic [1] - 27:5 tragic [1] - 52:23 trail [1] - 109:12 trails [1] - 110:5 train [1] - 94:20 trained [2] - 116:21, 143:4

training [1] - 143:8 Training [1] - 114:6 transcribed [1] - 6:1 transcript [3] - 5:13, 6:7, 89:2 transcription [1] -164:7 transit [2] - 106:5, 106:6 transition [10] - 20:3, 20:15, 45:10, 45:14, 46:7, 63:7, 107:19, 124:11, 137:21, 152:9 transitioning [2] -122:4, 122:7 transitions [2] - 23:3, 122:14 translates [1] - 132:20 transmission [1] -29:18 transparency [2] -123:23, 124:3 transparent [1] -160:4 transport [2] - 68:2, 148:6 transportation [10] -49:22, 67:4, 99:16, 99:17, 101:4, 120:20, 122:5, 122:8 transported [1] - 46:6 trapped [1] - 57:22 trapping [1] - 22:5 travel [2] - 88:16, 148:18 treat[1] - 139:15 treatment [1] - 159:7 tree [2] - 160:16. 160:19 trees [1] - 148:8 tremendous [2] -84:18, 155:19 trend [2] - 11:19, 12:5 trial [1] - 136:22 trickling [1] - 95:7 tried [3] - 17:16, 109:23, 135:13 trigger [1] - 55:23 triggered [2] - 16:15, 55:5 trillion [4] - 104:11, 107:21, 108:2, 108:3 trip [2] - 83:1, 128:7 Triple [1] - 148:10 tripled [1] - 69:3 trips [1] - 148:4 tropical [2] - 62:20, 63:1 troublesome [2] -

12:5, 142:22 truck [1] - 148:4 trucks [3] - 27:3, 104:14, 104:15 true [6] - 105:6, 106:14, 124:2, 129.7, 141:11, 164:6 truly [3] - 71:2, 127:4, 155:5 trumpet [1] - 12:6 trust [1] - 72:9 trustee [1] - 97:23 trustees [1] - 98:15 truth [2] - 22:8 try [4] - 5:9, 83:1, 109:15, 145:17 trying [1] - 90:19 tundra [1] - 57:20 tuned [1] - 56:6 turbines [1] - 89:8 turn (6) - 91:1, 110:6. 124:15, 125:21, 150:10, 155:1 turned [1] - 25:21 TV [1] - 126:5 twice [3] - 52:4, 90:18, 161:6 two [20] - 4:4, 7:18, 15:13, 34:19, 42:19, 65:5, 65:15, 88:1, 89:20, 96:1, 100:14, 100:18, 101:8, 113:2, 120:20, 125:20, 143:2, 143:11, 145:16, 160:16 two-way [1] - 89:20 Tyler [2] - 142:5, 163:3 type [2] - 92:12, 118:14 typical [1] - 81:23 U U.S [1] - 131:22 ultimately [2] - 11:18, 155:17 unable [1] - 131:5 unacceptable [1] -87:14 unbelievable [1] -60:23 unconscionable [1] -105:22 Unconscionable [1] -106:1 uncontrollable [1] -148:21 under [7] - 7:19, 53:7,

63:20, 64:15, 69:22, 99:22, 111:22 undergraduate [1] -160:17 underground [1] -57:22 underneath [1] -41:23 underserved [4] -112:3, 112:14, 113:13, 113:20 undertaken [1] -163:11 underutilized [1] -144:3 underwater [1] - 61:14 underway [1] - 12:11 underwent [1] - 19:6 undone [1] - 60:22 undrinkable [1] -26:14 unforeseen [2] -148:18, 148:20 unfortunate [2] - 19:2, 58:23 unfortunately [8] -20:18, 42:19, 73:15, 78:19, 147:21, 149:22, 152:11, 154:1 unhelpful [1] - 144:9 unintended [2] -35:13, 148:16 unionized [1] - 29:20 unique [4] - 15:4, 24:11, 25:1, 129:6 United [5] - 10:22, 38:21, 44:4, 80:11, 94:14 units [1] - 41:3 universities [1] -149:11 university [1] - 137:6 unknown [3] - 65:10, 148:18, 148:21 unleash [2] - 13:8, 32:7 unleashing [2] - 3:19, 39:14 unless [2] - 96:18, 151:23 unlikely [1] - 30:21 unnecessary [1] -48:13 unprecedented [1] -152:5 unrealistic [1] - 144:9 unreasonably [1] -103:10 unregulated [1] -

161:8 unsafe [1] - 148:22 unsalvageable [1] -127:7 unsinkable [1] - 93:12 unsustainable [1] -63:11 unwilling [1] - 124:13 up [45] - 14:6, 20:9, 24:3, 26:7, 27:22, 34:3, 35:6, 35:7, 45:7, 54:6, 54:19, 56:6, 60:15, 65:14, 65:15, 67:16, 71:22, 73:21, 81:13, 84:15, 86:23, 87:3, 87:5, 92:1, 95:22, 96:1, 97:13, 97:16, 102:15, 109:14, 109:22, 110:1, 110:7, 118:20, 120:16, 127:15, 129:3, 129:7, 133:23, 137:23, 156:23, 157:21, 158:16, 159:12 Up [2] - 110:20, 112:2 updated [1] - 49:3 updating [1] - 52:19 upfront[1] - 39:22 upgraded [1] - 113:9 upgrading [1] - 135:8 upstate [2] - 66:6, 79:18 upwards [1] - 41:19 urban [2] - 81:15, 101:3 urge [12] - 14:15, 20:2, 30:18, 92:6, 93:9, 93:17, 94:4, 113:14, 142:19, 147:1, 160:5 urgency [1] - 87:9 urges (1) - 151:21 US [5] - 15:23, 24:19, 24:21, 127:15, 133:7 usage [8] - 35:20, 37:7, 70:2, 101:23, 103:18, 115:22, 118:16, 152:22 useful [1] - 83:23 users [1] - 134:16 uses [4] - 4:7, 40:20, 57:12, 71:2 usher [1] - 126:15 utilities [9] - 10:20, 29:13, 29:23, 64:10, 64:12, 84:2, 159:9, 159:12 utility [5] - 10:18, 14:2, 34:2, 37:10,

125:16	visible [1] - 80:7	watched [2] - 46:1,	weekend [2] - 46:3,	75:4, 75:6, 75:11,
utilization [1] - 37:5	vision [12] - 3:18,	65:14	151:14	75:14, 75:16, 75:23,
utilized [2] - 37:8,	27:14, 32:4, 32:17,	watching [1] - 19:3	weekends [1] - 119:18	77:19, 77:21, 77:23,
112:20	32:19, 33:7, 52:11,	-		
utilizes [1] - 71:15		water [60] - 8:17, 9:1,	weeknight [1] -	79:18, 79:21, 80:1,
uunzes [i] - 71.15	67:9, 98:8, 101:2,	15:8, 16:23, 17:5,	151:14	80:6, 80:9, 80:13,
	139:13, 139:16	17:8, 17:9, 17:10,	weeks [1] - 151:15	80:15, 80:17, 81:2,
V	Vision [1] - 139:7	17:16, 17:19, 17:21,	welcome [2] - 2:2,	82:6, 83:22, 89:4,
· · · ·	visit [1] - 15:10	17:22, 19:4, 21:11,	45:21	89:5, 89:8, 89:10,
volid (c) 110(10	vitality [1] - 29:21	26:12, 26:14, 26:17,	welcomed [1] - 144:1	90:3, 92:10, 113:6,
valid [1] - 119:12	voice [2] - 84:14,	27:4, 27:9, 41:20,	welfare [1] - 160:10	115:16, 122:18,
Valley [1] - 144:2	118:1	41:21, 45:18, 47:5,	wells [7] - 16:13,	122:19, 127:15,
value [1] - 44:17	voiceless [1] - 129:5	59:7, 59:9, 59:10,	16:14, 17:3, 17:15,	149:14, 153:21
<b>values (</b> 5] - 43:3,	voices [1] - 29:4	59:13, 86:17, 92:22,	148:4, 148:7, 150:14	windmill [1] - 84:17
44:13, 46:13,	volatility [1] - 131:16	95:17, 95:19, 95:21,	Weltman [2] - 18:23,	windmills [1] - 80:3
128:23, 161:3	volcanos [1] - 57:10	102:15, 102:17,		window [1] - 144:8
Vancouver [2] - 88:14,		103:1, 103:12,	19:21	windowless [1] -
88:17	volume [11] - 4:5, 4:7,	104:2, 104:6, 104:7,	WELTMAN [1] - 19:21	
variability [2] - 36:3,	4:10, 50:20, 88:2,		West [6] - 57:7, 57:14,	162:1
36:8	100:14, 101:8,	104:11, 104:13,	128:7, 128:20,	winds [1] - 86:22
variable [1] - 36:5	143:1, 143:2,	107:16, 107:18,	129:1, 149:4	wingers [1] - 108:14
••	143:11, 144:15	116:12, 128:9,	west [1] - 59:8	wink [1] - 89:21
various [1] - 116:5	volumes [1] - 4:4	128:11, 128:13,	Westchester [2] -	winter [10] - 24:9,
vast [1] - 30:9	volunteering [1] -	128:23, 135:18,	104:14, 147:11	37:8, 62:19, 84:20,
vehicle [4] - 50:6,	46:3	136:11, 148:6,	whimsical (1) - 43:13	103:13, 131:11,
50:8, 101:15, 161:13	vote [2] - 52:9, 145:5	149:3, 150:16,	white [2] - 81:12,	132:2, 133:16,
vehicles [14] - 36:2,		154:9, 154:16,	81:20	133:21, 135:19
50:4, 67:15, 99:13,	W	157:12, 161:9		winter's [1] - 146:9
100:3, 100:4, 100:5,	VV	Water [7] - 19:22,	White [3] - 70:4,	wise [1] - 49:19
100:9, 100:12,		23:9, 58:15, 58:17,	81:10, 150:11	
100:15, 100:16,	Wading [1] - 132:12	66:20, 145:20,	Whitman [1] - 38:5	wish [2] - 79:6, 95:8
101:12, 101:20,	waffling [1] - 150:3	158:18	whole [4] - 32:9, 60:6,	wit [1] - 89:16
161:10			61:5, 122:13	withdrawals [1] -
	wage [1] - 114:1	watershed [3] -	wholehearted [1] -	132:1
venting [1] - 38:4	wait [5] - 19:17, 53:2,	102:14, 102:20,	118:1	witness [1] - 25:19
verify [1] - 109:14	75:23, 76:4, 93:8	102:22	wide [2] - 98:5, 112:19	witnessed [1] - 27:6
Verizon [1] - 103:17	waiting [3] - 32:8,	watt [1] - 105:16	widely [1] - 116:2	woman [1] - 132:21
Vermont [1] - 84:6	40:7, 46:5	wattage [1] - 105:6	widespread [3] - 72:5,	women [1] - 114:7
version [2] - 6:3, 6:4	walk [3] - 54:6, 124:20	watts [2] - 105:7,	72:18, 112:17	wonder [2] - 61:11,
vertical [1] - 148:17	walking [1] - 110:15	105:16		89:15
veto [3] - 20:4, 21:14,	Wall [1] - 129:5	wave [1] - 75:16	wife [1] - 96:1	
22:21	Walt [1] - 38:5	Ways [1] - 130:4	wild [1] - 102:13	wonderful [1] - 149:13
vetoed [1] - 90:18	Walter [1] - 93:6	ways [4] - 39:20,	wildfires [1] - 93:20	Woodge [2] - 7:13,
via [2] - 7:1, 143:22		68:19, 117:18, 122:8	William [2] - 70:17,	7:14
	wants [1] - 74:16		132:11	WOODGE [1] - 7:14
via-a-vis [1] - 143:22	warmed [1] - 141:9	Waywayanda [1] -	willing [1] - 146:23	words [1] - 126:9
viable [5] - 43:18,	warmer [1] - 45:18	144:2	willingness [1] -	wore [1] - 150:9
83:6, 97:7, 111:5,	warming [6] - 44:22,	weak [1] - 155:20	149:21	workers [6] - 30:4,
154:20	108:12, 109:6,	weaken [1] - 68:9	Wind [3] - 23:9, 45:3,	114:6, 114:8, 143:3,
vice [1] - 23:8	110:9, 141:8, 152:20	weapon [2] - 151:17,	89:7	143:4, 145:5
<b>victims</b> [1] - 20:8	warned [1] - 131:14	151:18	wind [74] - 8:23,	workforce [2] - 75:12,
view [4] - 36:11, 80:4,	warning [1] - 123:20	weapons [1] - 94:3		114:5
87:17, 108:20	Warren [2] - 7:13, 7:14	weather [3] - 29:6,	13:14, 13:22, 18:11,	
viewed [1] - 10:7	wars [1] - 17:21	93:21, 152:2	18:14, 24:3, 24:5,	workplace [1] - 54:4
viewings [1] - 52:4	waste [8] - 31:20,	weather-related [1] -	24:11, 24:15, 25:1,	works [5] - 4:22,
views [1] - 129:18		29:6	25:7, 27:13, 28:4,	44:15, 89:14, 116:4,
	31:21, 95:17,		30:13, 30:23, 39:18,	158:1
village [2] - 97:14,	114:13, 136:10,	weatherized [1] -	42:23, 43:15, 43:16,	world [11] - 9:4, 24:14,
98:18	140:17, 160:13,	33:22	43:17, 43:22, 44:3,	31:23, 93:3, 93:13,
/illage [1] - 97:23	161:8	website [6] - 3:6, 4:17,	44:7, 44:9, 44:13,	124:9, 138:6, 141:3,
<b>/ineyard's</b> [1] - 89:9	wastewater [2] -	7:1, 41:6, 60:16,	46:11, 49:18, 65:1,	151:22, 154:23,
/irginia [4] - 128:8,	16:18, 17:13	163:17	65:2, 65:4, 65:21,	155:18
400.00 400.4 440.5	Watch [5] - 19:22,	week [4] - 27:2, 28:14,	65:22, 66:6, 66:7,	world's [3] - 62:6,
128: <b>20</b> , 129:1, 149:5		· · · · ·	00.22,00.0,00.1,	- wond a [a] = 02.0,
	58:18, 66:20.	52:23, 148:11	73-18 72-01 74-44	70.0 151.19
128:20, 129:1, 149:5 virtually [1] - 133:9 vis [1] - 143:22	58:18, 66:20, 145:20, 158:18	52:23, 148:11 weekdays [1] - 125:5	73:18, 73:21, 74:14, 74:17, 74:20, 74:23,	70:9, 151:18 worry [1] - 93:11

· · · · · · · · · · · · · · · · · · ·		
worse [2] - 122:15,	18:1, 18:2, 18:7,	137:21, 139:2,
127:3	18:20, 19:14, 19:15,	139:15, 140:12,
worsening [2] - 63:8,	20:3, 20:7, 20:15,	141:13, 142:13,
150:15	20.3, 20.7, 20.15, 22:10, 22:16, 22:17,	142:16, 142:19,
	22:10, 22:16, 22:17, 22:20, 23:3, 23:14,	143:19, 144:5,
worst [2] - 33:3, 99:21	22:20, 23:3, 23:14, 29:22, 30:19, 31:2,	
worth [1] - 118:7		144:7, 144:14, 144:17, 144:18
write [1] - 56:20	32:16, 34:18, 35:1,	144:17, 144:18,
writing [4] - 45:7,	37:15, 38:7, 39:2, 39:3, 42:14, 42:16	144:21, 144:22,
127:10, 156:18,	39:3, 42:14, 42:16, 43:11 43:14 43:17	145:6, 145:8, 145:9,
158:10	43:11, 43:14, 43:17,	147:1, 147:2, 147:3,
written [12] - 4:14,	44:19, 45:16, 45:23, 46:20, 50:3, 50:23	147:7, 147:17,
4:16, 4:18, 4:21, 6:3,	46:20, 50:3, 50:23,	149:9, 149:13,
6:4, 7:1, 33:17, 88:9,	55:3, 56:13, 58:6,	149:16, 150:3,
117:8, 134:23,	58:8, 59:2, 59:18,	151:1, 151:2, 152:6,
163:17	59:20, 60:8, 61:2, 61:10, 63:4, 63:5	152:11, 153:19,
www.energyplan.ny.	61:10, 63:4, 63:5,	154:11, 155:7,
gov [1] - 163:18	64:17, 64:19, 66:12,	155:8, 155:14, 164:6
·	66:21, 67:6, 67:17,	York's [19] - 12:19,
Y	67:20, 68:1, 68:4, 68:20, 60:11, 70:10	18:9, 20:19, 21:2,
	68:20, 69:11, 70:19,	43:10, 44:18, 49:23,
V005-0-10-0-0	70:23, 73:6, 73:11,	68:14, 69:7, 71:5,
<b>year</b> [31] - 16:7, 16:11,	74:2, 74:3, 74:9,	72:12, 130:5,
19:2, 37:9, 48:22,	74:22, 75:2, 75:12,	130:13, 133:5,
49:10, 56:14, 64:15,	75:19, 76:17, 77:2,	133:11, 140:1,
66:7, 69:3, 70:1,	77:9, 77:12, 77:15,	143:11, 144:9, 154:6
74:19, 87:20, 89:18,	77:17, 78:19, 79:1,	York-generated [1] -
94:19, 94:20, 94:21,	79:10, 79:14, 79:18,	131:6
94:23, 99:23,	80:10, 80:20, 81:1,	Yorker [1] - 123:16
100:21, 107:14,	81:9, 81:16, 81:18,	Yorkers [10] - 11:10,
110:10, 119:9,	81:22, 82:3, 82:5,	66:2, 72:10, 80:18,
135:18, 138:14,	82:6, 84:8, 84:13,	91:19, 111:3,
142:10, 143:14,	90:14, 90:15, 90:20,	133:23, 144:14,
156:14	92:19, 93:2, 94:5,	144:22, 145:10
yearly [1] - 36:18	95:12, 95:14, 97:10,	young [2] - 28:1,
years [49] - 8:13, 10:5,	97:12, 98:6, 98:7,	161:18
10:17, 22:6, 22:7,	98:8, 100:6, 102:14,	younger [2] - 58:20,
31:2, 32:18, 32:20,	102:15, 102:22,	147:16
32:22, 33:5, 41:20,	104:1, 104:10,	Youtube [1] - 10:8
43:23, 52:22, 55:6,	104:13, 104:17,	
56:23, 58:6, 59:1,	105:4, 109:18,	Z
61:23, 69:11, 69:14,	110:22, 110:23,	<b></b>
70:7, 71:12, 80:10,	111:4, 111:16,	
82:22, 92:1, 92:4,	111:21, 111:22,	zero [8] - 44:4, 44:6,
93:4, 94:10, 94:16,	113:3, 113:15,	44:10, 45:22, 54:5,
96:6, 97:10, 100:18,	113:16, 113:23,	93:3, 94:5, 133:9
107:16, 109:9,	115:5, 115:12,	zone [1] - 145:16
113:3, 116:14,	116:5, 116:18,	zoned (1) - 144:4
121:6, 133:9, 139:6,	116:20, 118:4,	zones [1] - 149:17
139:21, 141:10,	119:19, 119:22,	}
143:20, 145:15,	120:2, 120:14,	
152:21, 156:5,	121:16, 121:17,	
156:20, 156:22,	124:9, 125:6, 125:7,	
157:9	125:13, 126:19,	ĺ
yellow [1] - 136:19	126:21, 127:19,	
yesterday [1] - 15:10	127:20, 128:19,	
YORK [1] - 1:1	129:1, 129:19,	
York [214] - 1:9, 1:15,	129:20, 129:23,	
2:3, 8:2, 8:6, 8:14,	130:14, 131:6,	
2:3, 8:2, 8:6, 8:14, 9:3, 9:10, 10:11,	131:9, 131:10,	
9:3, 9:10, 10:11, 11:20, 12:6, 12:9,	132:14, 133:1,	
11:20, 12:6, 12:9, 12:12, 15:4, 15:6,	134:9, 136:21,	
· · · · · · · · · · · · · · · · · · ·	L	<u></u>

30

.