## **In The Matter Of:** *BPU MASTER PLAN*

October 10, 2018

JH Buehrer & Associates

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1			
2		2019 ENERGY MASTER PLAN STAKEHOLDERS MEETING	
3			
4			
5			
6	BOARD.	GRACE STROM POWER, Lead, BPU	
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			2
1	APPEARANCES:		
2	SPEAKERS	PAGE	
3	JOSEPH SHEA	6	
4	JOCELYN SAWYER	14	
5	BRIAN LESTINI	17	
6	GEORGE HAY	27	
7	LAUREN BOLES	32	
8	SARAH NEWELL	36	
9	PATTY CRONHEIM	42	
10	LARRY FURMAN	43	
11	JONATHAN CLOUD	49	
12	MATT POLSKY	58	
13	ROBERT DeDOMENICO	71	
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

MS. POWER: Good afternoon,
everyone. My name is Grace Power, and I
want to welcome you today to our 7th and
final stakeholder meeting, at least for
the initial stakeholder process, for the
2019 Energy Master Plan. On behalf of the
Board of Public Utilities and President
Joe Fiordaliso I want to welcome you here
today.

Let me give you a brief overview of the Energy Master Plan process. On May 23rd of this year the governor signed an Executive Order 28, and it directs the BPU to spearhead the creation of a new Energy Master Plan that will be due in June of next year. The central task of this plan is to develop a blueprint to fully convert the state's energy to clean energy by 2050, with also specific goals for how to get to 2030 and, you know, steps along the way.

This is a brief timeline of the Energy Master Plan process. Once the executive order was signed in May we kicked off an intergovernmental working

group that comprises -- it's comprised of
a number of departments, which I'll show
you shortly. We've held a number of
stakeholder meetings, like I mentioned, in
September and now into October, and now
the committee is going to be -- the
committee's working groups will be getting
to work actually putting those draft plans
together. We will come back to the public
in spring and put out these plans for
public input and additional public
comment, and finally in June of next year
we are going to deliver the plan to the
governor.

As I mentioned, this has truly been an interdepartmental process, and we have on our working groups folks from the Department of Community Affairs, the EDA, DEP, Health, Human Services, Transportation, Labor and Workforce Development, Treasury, and Transit.

This is, as I mentioned, our final meeting, so thank you all for joining us again. We are accepting comments until this Friday at 5:00 p.m. For those of you

who have not gone on our website, in September we held five public stakeholder meetings, and at each of those there was a specific theme based on the working group that was holding the meeting. And we put out a series of 20-plus questions for each one of those working groups that really hopefully shows you the direction that we're looking at and the specific areas where we're looking for feedback.

You know, I'm glad to have you all here, but I just want to emphasize that your comments will be part of the public record that you submit in writing. They will be read by the committees and they will really help inform the process.

I did want to recognize -- one of our commissioners is here, Diane Solomon. So thank you for joining us tonight.

So with that I think we're going to get to our speaker list. We're asking everyone to keep their remarks to about ten minutes. Again, if you could hit the highlights for the folks in the room and be respectful of everyone's time, and we,

again, are very interested in reading your full comments that you submit to us by the end of the week. So thank you.

MS. SARAH BLUHM GIBSON: And first up we have Joe Shea from PSEG.

MR. JOSEPH SHEA: Good afternoon.

My name is Joe Shea, and I am an Associate

General Regulatory Counsel at PSEG

Services Company.

Thank you for the opportunity to speak briefly at this public stakeholder meeting. PSE&G applauds the Board for scheduling additional stakeholder meetings to meet public demand and for adding the additional locations of Camden and Newark to provide for more diverse viewpoints.

PSE&G has a long history of partnership with Camden dating back more than a hundred years with the partnership centered around the goals of the new Energy Master Plan. PSE&G is proud to partner in Camden's ongoing economic development as the city welcomes new businesses and organizations.

PSE&G's \$55 million investment in

electric and gas upgrades is well under way. We recently completed projects to provide additional capacity to support the energy needs at the Rutgers School of Nursing, Subaru headquarters and training center, Holtec International, American Water headquarters, and the Riverside Drive parking garage. We also have several projects in process at Rowan-Rutgers health sciences building, Camden County office center, Cooper Partners Tower and One Cooper Residential.

Expansion of the Locust Street substation is complete. The new circuits will support the waterfront development here in Camden. The reinforcement of Camden's gas system is complete with 48,000 feet of old main having been replaced. Additional replacement work is planned under the second phase of PSE&G's Gas System Modernization Program, which the Board approved earlier this year.

PSE&G continues working closely with Cooper Hospital on its cogeneration project including providing \$2 million in

energy efficiency funding. The necessary gas and electric upgrades have been completed and the project is on schedule to be begin operation in the first quarter of 2019.

PSE&G's Audubon gas district was instrumental in providing support to the Camden County municipal utilities' authority biogas project to ensure in this environmentally friendly endeavor got off the ground.

PSE&G's solar loan program has provided loan funding for the clean and solar systems at Campbell's Soup headquarters and Holtec International. The Campbell's solar system is the largest in the city and will generate about 5,000 megawatt hours per year, enough to power about 700 homes.

In addition, PSEG will provide five -- a five-plug electric vehicle charging system for use by Campbell's employees through PSE&G's electric vehicle workplace charging program. That program has provided 135 chargers to 23 New Jersey

hospitals, colleges, and businesses.

In total PSE&G has invested more than \$180 million over the past several years in Camden and Burlington counties through programs that are designed to help improve energy efficiency and increase the amount of solar power in the state, both goals of the new Energy Master Plan.

This including the following programs all approved by the BPU: PSE&G's hospital energy efficiency program; a residential multi-family energy efficiency program; a multi-family smart thermostat pilot program, which provides smart thermostats to multi-family residences and low-income customers so that they can better control their energy consumption and reduce energy bills; its smart thermostat rebate program; and its solar for all program; and its aforementioned solar loan program.

Lastly, the PSEG foundation provided significant funding for energy efficiency initiatives for the food trust and Cooper's Ferry partnership. PSEG

believes despite this successful partnership with the City of Camden and the surrounding area that more could be done and more should be done. That is why it recently filed its clean energy future program with the BPU.

This filing calls for a significant expansion in the company's energy efficiency programs with specific emphasis on low-income customers. For example, the clean energy future's residential income eligible energy efficiency subprogram would serve customers whose household income is less than 400 percent of the federal poverty level. This program would provide free direct installation of energy efficiency technologies and weatherization services to qualifying PSE&G customers with limited income.

This program would generate energy savings for low-income customers through an in-home energy audit and the direct installation of a wide range of energy efficiency measures such as efficient

lighting, efficient refrigerators, HVAC, weatherization upgrades, and similar programs.

It would also provide for installation of health and safety measures as appropriate, and may also include actions to address building shell issues that prevent the installation of energy efficiency measures such as moisture mold remediation, roof repairs, electrical repairs, lead and asbestos remediation. These are important energy bill-lowering actions that we need to extend to all of our state's residents, particularly in the environmental justice communities.

The clean energy future filing also contains a proposal to jump start the electric vehicle industry in New Jersey consistent with the new Energy Master Plan. Electric vehicles offer tremendous promise to help improve the environment by reducing greenhouse gas emissions and other air pollutants.

One non-profit trade and research group estimated that every electrically

fueled mile driven in New Jersey is at least 70 percent cleaner than an average mile that is fueled by gasoline. The increased electric vehicle adoption resulting from this program would remove approximately 16 million net tons of CO2 emissions through 2035. The emissions savings are equivalent to removing up to 65,000 cars from New Jersey roads for one year.

Our filing also contains an electric school bus component through which the company proposes to provide grants to public school districts to cover the cost of purchasing electric school buses as well as deployment of the make-ready charging infrastructure and financial incentives towards charging equipment. We proposed a grant up to \$300,000 per bus for up to 102 electric The company will target school buses. districts across the socioeconomic spectrum to participate in this initiative, particularly urban districts to ensure the benefits of this program

1 extend to low-income school children.

educating children.

Recipient school districts could then take the money otherwise allocated for buses and reinvest it where it is needed most,

By promoting the electrification of medium- and heavy-duty vehicles including school buses, PSE&G will help to improve air quality by reducing diesel emissions in New Jersey. Diesel exhaust exposure is linked to numerous serious negative health effects, including asthma, respiratory problems, lung cancer and premature mortality.

The United States EPA believes that diesel exhaust is among the substances that pose the greatest health to humans. In New Jersey, where 96 percent of the diesel particulate matter in outdoor air comes from mobile sources, such as passenger vehicles, trucks, buses and heavy equipment, electrification solutions can help to address the worrisome risk from diesel emissions.

This is an environmental justice

issue as the state's urban areas, their 1 residents and their children bear the 2 brunt of these harmful emissions. 3 The electrification of our state's vehicles is 4 5 crucial to solving this problem. PSEG applauds the administration 6 7 and the BPU for addressing these crucial 8 issues in the new Energy Master Plan and 9 through other actions such as the new Clean Energy law. PSEG is ready to assist 10 11 the state in meeting its goals and partnering further with the city and 12

county of Camden as well as surrounding neighborhoods to further environmental justice and to improve the quality of life for all resident of the state.

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Thank you for the opportunity to appear today and to provide these comments.

MS. SARAH BLUHM GIBSON: Jocelyn Sawyer?

(No response.)

Lyle Rawlings -- oh, you're deck.

Lyle Rawlings is not here.

MS. JOCELYN SAWYER: Yes. Hello

my name is Jocelyn Sawyer. I am with Food and Water Watch New Jersey. I'm also here representing the Gloucester County Food and Water Watch group, a local group of folks, who unfortunately weren't able to make it to the meeting. But I'm delivering some statements on behalf of that group as well. Thank you for the opportunity to speak and also for scheduling these additional meetings, having a chance for residents of South Jersey to come forward.

The goal of setting New Jersey on a path to 100 percent clean energy is absolutely a step that we applaud, and we urge you actually to accelerate the goal to 100 percent clean energy by 2035 because that is what, according to climate signs is absolutely necessary in order to avert the worst impacts of climate change.

The report by the intergovernmental panel of climate change that just came out this week outlines that unfortunately if we are waiting until 2050 to be really achieving these goals, we

risk a 2 or even 3 degree celsius of global warming above pre-industrial temperatures, which would be just the cost -- the social costs, economic costs, public health costs would be unimaginable, and we can't risk that.

New Jersey can be a leader in energy, and we have the opportunity, the great steps we're making here, and with the new plan, to true put us on the path to clean energy.

And so we urge you to include in this plan a moratorium on new fossil fuel infrastructure in order to put us on the path to clean energy as fast as we can. We can't be continuing to build out pipelines, increasing our reliance on natural gas that does contribute to climate change, and instead to stay focused on these goals. So that's the main message that I wanted to deliver here.

I also, as we are in Camden,
wanted to add to urge you to consider
energy sources that truly are clean, that

1	don't leave communities such as Camden and
2	other low-income and primarily
3	people-of-color communities with the
4	burdens, the public health burdens, that
5	the energy sources aren't truly clean
6	cause.
7	And so we call for clean energy
8	from wind, from solar, and not continuing
9	to rely on biogas and on burning methane
LO	that excuse me that leaves
L1	communities with these public health
L2	burdens.
L3	And so thank you again for the
L <b>4</b>	chance to speak and for being here.
L5	MS. SARAH BLUHM GIBSON: Lyle
L6	Rawlings?
L7	(No response.)
L8	Matt Polsky?
L9	(No response.)
20	Taylor McFarland?
21	(No response.)
22	Brian Lestini?
23	MR. BRIAN LESTINI: Good
24	afternoon. My name is Brian Lestini. I'm
25	from Moorestown, New Jersey. Those from

North Jersey, that's Moorestown, not
Morristown. First, I'd like to sincerely
thank the Board of Public Utilities,
Commissioner Solomon and the other
commissioners, for holding this important
series of hearings on updates to the
Energy Master Plan, which, as you noted
earlier, is targeted to really set the
vision for Governor Murphy's goal of 100
percent clean energy by 2050.

In particular I want to thank the Board for increasing the number of these hearings and extending them to us in South Jersey. And mainly I'd like to thank and commend the Board for the energized and spirited enthusiasm with which it is embracing its responsibility and its pivotal role in making New Jersey a leader in transitioning to a clean energy climate and leading the way to ensure that New Jersey is doing our part to combat the growing crisis of climate change. I'd also like to thank Governor Murphy, first Lady Murphy, and staff for providing the vision that we desperately need to achieve

these same goals.

I'm a taxpayer, a doctor, a scientist, and a father of two small children. I've dedicated my life to serving the public health. I'm an active volunteer with a number of groups, including I'm a lay leader of the St.

Matthew Lutheran Church here in Moorestown. Today I'm providing testimony on my own behalf as a private citizen.

I believe that in New Jersey we are faced with a moral, ethical, and economic imperative to swiftly and justly transition off of fossil fuel dependence. The current revisions to the Energy Master Plan will be historic and setting us on the right path to achieve such a transition, and as such it's vital that you, and by extension all of us, get these revisions right.

I'd like to focus my comments on three particular points: Number one, clean energy should be defined as class 1 renewable sources and should not include natural gas. As a fossil fuel with

greenhouse gas potency, approximately 30 times the carbon dioxide natural gas clearly does not meet our immediate need to dramatically reduce emissions contributing to climate change.

With the issuance of the intergovernmental panel on climate change report this week, it's clear that utilization of natural gas, even as a transitional fuel, is incompatible with our ability to stave off the worst effects of climate change within the next 20 years, effects that will have severe impacts on my children's generation and beyond.

Additionally, the admitted pollution from natural gas infrastructure, such as compressor stations and gas-fired plants raise an immediate public health threat for our communities, in particular vulnerable populations, such as the elderly and children, who suffer from dramatically increased rates of pollution-related conditions, such as asthma and other respiratory diseases.

The real potential for contamination and explosions from transmission pipelines threatens the safety of life and property, the drinking water supplied for millions of New Jerseyans, including that of myself and my family, and our most fragile and complex

eco systems.

Importantly, the EMP should take steps to ensure that retiring nuclear plants are not converted to gas-fired plants, but rather are replaced by sources of class 1 renewables. Furthermore, the EMP should identify regulatory changes that will prohibit approval of projects such as increased natural gas infrastructure that run counter to the goals set forth in the Global Warming Response Act.

New Jersey has already enacted landmark legislation requiring 50 percent renewable energy by 2030, and the EMP should put us on the path to 100 percent renewable energy by, at the latest, 2050.

Two, the EMP to provide clear

provisions to enable rapid and complete electrification of our automobile ports and public transportation sectors.

Rigorous clean car standards that reduce emissions are vitally important, and New Jersey must remain a leader in resisting federal rollbacks of such standards.

However, in order to meet our goals, as defined in the Global Warming Response Act, we must go beyond merely reducing emissions and convert to transportation electrification that is powered by class 1 renewable energy as quickly as possible.

We should be working toward a goal of at least 330,000 electric vehicles on the road by 2023. In conjunction with the legislature and governor the EMP should help ensure that the price of electric vehicle is within reach of all consumers, including those of low- to moderate-income incomes and enable appropriate and educational campaigns and monetary incentives to drive uptake.

The EMP must provide a means to

increase investment in a robust healthy charging infrastructure, including accessibility for both rural areas and environmental justice communities, ports, municipalities, the New Jersey Transit system, and other entities such as school districts to be incentivized to pursue clean electrification through monetary incentives such as grant programs as well as educational campaigns.

Three, the EMP should empower cooperation between the state private entities and municipalities to most effectively implement clean energy planning, provide a rigorous road map for growing our clean energy workforce, embrace technological innovation as an economic driver, and ensure all communities have the opportunity to benefit from the resulting economic growth.

Success, particularly in South

Jersey, will be critically reliant on

affording strong relationships with

municipalities and private entities to

ensure sharing a voice in planning, zoning, and decision-making.

Policies should encourage
municipalities to embrace clean energy
development, including educational
campaigns and effective aggregated
renewable power purchase agreement
systems, monetary incentives such as grant
programs, and reductions in bureaucratic
processes.

Workforce development, skills retraining, and incentivizing investment will be critical including deliberate incentives to invest in workers and capital projects in disproportionately impacted communities.

The EMP should encourage that clean energy become a key pillar in Governor Murphy's innovation economy, leveraging New Jersey's world class academic centers, private institutions, and technological corporations to develop and manufacture the enabling technologies that will be required to support the upcoming expediential growth in global

nation and international clean energy sectors.

These technologies will span the range from energy efficiency to smart infrastructure to energy storage and even possibly carbon capture. New Jersey is poised to take a leadership role in spurring such innovation, and the EMP must ensure we capitalize on that growth opportunity.

It's beyond a doubt that the vast preponderance of scientific evidence codified in the IPCC report this week indicates that anthropogenic climate change is the key defining risk of our generation.

The report generated by 91 authors and review editors from over 40 countries, including over 6,000 references clearly demonstrates that already we have increased global temperatures by approximately 1 degree celsius above pre-industrial levels, the effects of which are already being seen. The report further indicates we are on track to see

mean temperatures exceed 1.5 degrees with extreme effects being anticipated by as early as 2040, well within our lifetimes.

As a father and physician, I am dismayed to think that the unprecedented impacts on the public health and the billions of dollars in economic damage that this reality will have on my children's generation and beyond.

However, I am also hopeful as the solutions to these problems are at hand and with the actions being taken by Governor Murphy and this work through the EMP can become an alternate reality.

I again thank the Board and urge you to continue New Jersey on a path toward leadership by implementing a rigorous definition of clean and renewable energy, enabling rapid and complete electrification of the transportation sector and capitalizing on the profound opportunities of a swift and just transition to a clean energy economy. This EMP revision represents our best opportunity to get it right, and we are

counting on you. Thank you very much.

MS. SARAH BLUHM GIBSON: Thank

you.

## George Hay?

MR. GEORGE HAY: I'll be submitting written comments later, so this is a bit off the top of my head. But I'm a retired former California electric resource planner with Pacific class in electric there.

In more recent years I've been looking at community energy integrated systems, kind of applying what utilities used to do with the grid regional level down to more the community level, and have been looking at the city of Ocean City in that regards at one point, and the specific issue of how offshore winds, say, would match up with local community power

And I'd like to second the comment about natural gas makes a great fuel for a peaking unit that might back up wind, those sorts of things. But right now the trend in New Jersey is replacing the old fossil peaking standby units that hardly

operate with combined cycles that want to operate base load, and it doesn't really make a whole lot of sense.

But one of the systems integration issues that I bring up a lot is that if 3,000 megawatts of offshore wind is built, that's going to need transmission capacity to get it to market, it's going to need back-up capacity load following. It's a systems engineering overall design issue of a regional machine, if you will.

And if they build pipelines to Beesley's Point and to Oyster Creek and put several-thousand megawatts of base load gas-fired capacity at those points, it's going to make bringing the offshore wind more expensive and there will be a competition for those wires, around 2,000 in California.

That issue occurred when there was a rapid run of new gas-fired plants that went, and later when they began looking at building regional wind farms, it became a real issue of competition for those transmission lines.

so it's -- I really do think if
the goal is ultimately to build 100
percent renewables by 2050, that really
needs to be looked at closely, technically
at the systems engineering integration
level of how do all these different
central and distributed transmission and
distribution and demand site management,
energy efficiency, electric vehicles,
distributed solar, cogeneration things at
one end, customer choice aggregation.

You know, what is the customer of the future going to look at that's being served and how does that marry up with the local distribution companies, the PJM, and all the central station power producers at that 2050 date?

When you really get -- I'm really more of a research background than planning, but, I mean, consistent with 100 percent renewables I'm not a particular fan of nuclear, but the hydrogen economy used to be based on nuclear generating the hydrogen, or you can go with wind with its intermittency, and that can be a

re-powering of the gas pipeline systems.

A lot of technical challenges to it, but you now have a gas that isn't a carbon source that can be distributed locally as an alternative to pure electrification of everything on the grid.

But I just -- I really hope
there's an effort to look technically at
what the system will look like in 2050 and
making sure all of these different pieces
tie together in ways that make sense as
opposed to being designed by political
committees, where each special interest
sort of advocates their special piece of
the system, but is it going to end up with
a car that doesn't work because all the
pieces weren't put together right because
there was never any central design for the
car?

I'll try to get my comments down on paper. This was sort of a last-second thought. But I am retired. I just really love the Energy Master Plan concept of trying to look strategically out in the future and trying to figure out how to

make it work.

I do think there's perhaps a missing research component to this of forums to have technical economic discussions about the future, maybe aside from the winners and losers, but more of a what makes technical sense and what are issues that need to be researched in the systems engineering level.

You know, but the vision I tend to think that if it was a hypothesis that needed to be tested is the regional offshore wind-type farms with some type of regional energy storage capacity, be it micro gender, pumped hydro or whatever, the interconnected PJM grid, and then local microgrid systems around communities. And it really is a reverse of how the electric industry was created in the first place.

In the early days it was all community energies' systems. Vineland's the only one really left in New Jersey of a municipal electric grid. But Atlantic Electric was the integrate of those,

Philadelphia Electric, Baltimore Electric, 1 they ultimately topped out geographically. 2 3 In California all of them were aggregated because we ended up with --4 Pacific Gas and Electric was all of 5 Northern California as a 30,000 megawatt 6 7 system because it grew up later in time; it wasn't as geographically restrained. 8 9 But what is it going to look like in the future, what are those community energy 10 11 systems going to look like technically and how will they interface with the grid. 12 13 Thank you for the opportunity to share. 14 15 MS. SARAH BLUHM GIBSON: Thank 16 you. Larry Furman? 17 18 (No response.) 19 Jonathan Cloud? 20 (No response.) 21 Lauren Boles? MS. LAUREN BOLES: Good evening. 22 23 My name is Lauren Boles. I'm a state 24 director for the New Jersey Environmental

The alliance is

Justice Alliance.

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comprised of organizations and individuals whose mission is to address and remove disproportionate impacts, disproportionate environmental impacts, in order to create just and sustainable communities. We're the only statewide organization that focuses on environmental justice and whose leadership and membership are predominantly people of color.

We wholeheartedly appreciate you adding these sessions for us to be able to comment on the Energy Master Plan, and so I appreciate this opportunity in order to strongly support the integration and prioritization of environmental justice goals in the Energy Master Plan in accordance with Governor Murphy's Executive Order 28 on environmental justice

So this Energy Master Plan, if not the first, it will certainly be a significant test of that executive order on environmental justice, to see whether we can actually include environmental justice goals in the plans that governor Murphy sets out.

so one of those that we want to make sure that we are ensuring is that significant investments in environmental justice communities are energy efficiency and renewable energy programs with a special care to remove any of the barriers that currently exist for environmental justice communities to access those energy renewable programs.

We want to make sure that
mitigation and -- there is mitigation of
the disproportionate impacts, and so that
we are hoping that this Energy Master Plan
will address some of the legacy promotion
that exists from the current energy
infrastructure.

Essentially, we also want to make sure that there are job opportunities addressed through this Energy Master Plan. Many of the communities that we work with have been left out of the energy market, and so we are hoping that this is an opportunity for those communities to be included in that -- in the clean energy

market.

And, finally, you know, we offer the opportunity to meet with you, discuss environmental justice goals further, and we certainly will submit comments by Friday, but we hope that you will take us up on the opportunity and we will be able to speak with you further. Thank you.

MS. SARAH BLUHM GIBSON: Thank you.

MS. GRACE POWER: I just wanted to take the opportunity -- we have four of our five working group chairs. I was hoping you could just introduce yourself briefly.

MS. SARAH BLUHM GIBSON: Sara Bluhm Gibson. I am chairing the Energy Reduction working group.

MR. MIKE HORNSBY: I am

Mike Hornsby. I'm chairing the Clean and

Reliable Transportation group.

MR. MICHAEL WINKA: Mike Winka, Building a Modern Grid, mostly on the distribution side.

MR. KENNETH SHEEHAN: And Ken

1 Sheehan on Clean and Renewable Energy.

MS. GRACE POWER: Thank you.

MS. SARAH BLUHM GIBSON: Sarah

of the New Jersey Renews Coalition.

Newell?

MS. SARAH NEWELL: Good afternoon.

My name is Sarah Newell, and I am

representing Green Peace, an interfaith

environmental organization based here in

New Jersey. We are proud to be a member

For my remarks today, I propose to share a summary of Green Peace comments from the previous EMP's hearings. We write to you as faith leaders in our cities and our state. We are coming together to express our support to those responsible for developing the Energy Master Plan in New Jersey. We welcome the state's strategic vision and we are expecting to see this plan put into action for a flourishing future for the health of those on our planet.

I would like to read a statement from a petition signed by 20 faith leaders from the greater Newark area at an

electric vehicle blessing event held in

Newark on May 31st. At this event we had

the opportunity to share comments from

many faith backgrounds. We also have

another faith event coming up on the 29th

in October held in Paterson for an

electric vehicle blessing.

We say that breath is life.

However, too many children in our

communities suffer from asthma and too

many adults and elders from respiratory

diseases related to air pollution.

Newark, for example, suffers from its

proximity to major highways and streets

crowded with cars and buses, thousands of

truck -- trips daily to the ports in

Newark and Elizabeth. As a result,

studies have shown that 1 in 4 children

suffer from asthma, far higher than state

average, and this is wrong.

Our cities need safe and stable climate. Pollution from vehicles also contributes to climate change, whose effects on urban communities suffering from dangerously high heat during the

summer months. Downpours overflow to combine storm and sewer systems, and flooding during severe storms such as Superstorm Sandy that exposed our neighborhoods to toxic flood waters and ruined our homes, and this is wrong.

Across the state air pollution from vehicles causes more than 4 billion annually in medical and climate change-related damage. The areas hardest hit by this damage are those in our cities. Electrified transportation for our communities can help to create safer, healthier communities, green jobs and environmental justice for our state.

We call on our state leaders to dramatically accelerate the installation of electric vehicle infrastructure across our state through measures such as those in bills S-2252 and S-2382, prioritizing and reducing air pollution, creating jobs in our cities and other areas of the state most heavily affected by air pollution.

We want to see developed legislation and plans to electrify

carbon -- handling equipment at other sources of air pollution at the ports,

Newark and Elizabeth. We want to ensure that legislation to promote electric transport includes a focus on electrifying New Jersey Transit buses and diesel for our construction equipment used in our cities. We want to ensure that electric vehicle legislation includes state rebates and subsidies such as bill 2382 does, and to ensure that New Jersey households have access to electric vehicles. For our cities the electrification of transportation is a matter of life and death.

To our political leaders and to our business leader, too, we say choose life. We want to support and endorse Governor Murphy's Energy Master Plan and encourage all of us to consider what it would look like to enter into a strategic vision of a future that we're building here in New Jersey. This plan sets forward a new way to use the raw materials of the earth and infuse them together for

a more flourishing society.

This week the intragovernmental panel on climate change released an extensive report written by 91 scientists from 40 countries who analyzed over 6,000 scientific studies. This research states that if we fail to keep a temperature below to 1.5 degrees, we are in for some significant and dangerous changes in our world.

This sobering report provided the hard-hitting truth that we must pursue actions, such as our EMP to see renewable energy in this state. By entering into the EMP we are showing that we stand for the transition for clean energy, we stand for the opportunity of green jobs in our state, we stand for cleaner air in our intercity communities, and for a brighter future for our families. We must galvanize upon more opportunities to exemplify our state leadership as we move forward with the Energy Master Plan.

Our earth is a divine gift. It is one that continually nourishes and

replenishes the souls of those who breath in its sacredness and splendor and its power. Our actions on earth should always point towards a better future for all. We must act with urgency upon transitioning to totally renewable energy in the State of New Jersey.

Green faith, on behalf of faith community across the state, stand firmly in support of the current administration's commitment to 3,500 megawatts of offshore wind development. We support the re-entry into the Regional Greenhouse Gas

Initiative that will lead to 30 percent of the revenues the state receives from RGGI and be committed to investments for environmental justice communities.

We are calling on the state to divest its pension funds from investments in the fossil fuel industry. We strongly oppose the involvement of any fossil fuel infrastructure in the state. Such infrastructure is wrong, and we want to see what comes after renewable energy by 2050.

1 To end, our Energy Master Plan is important. It paves the way for our 2 Garden State. It sees a better world we 3 are building for our children, our 4 5 families, and our communities. We want to move into clean energy and sustainable 6 7 lifestyles for all because we want to protect life on earth. This is a moment 8 9 that we will remember. This is the year that the turning point happened in New 10 11 Jersey. Thank you. 12 MR. MICHAEL HORNSBY: Thank you. MS. SARAH BLUHM GIBSON: 13 Has Lyle Rawlings, Matt Polsky, Taylor McFarland, 14 15 Larry Furman, or Jonathan Cloud arrived? (No response.) 16 Then that's it for the speakers 17 18 that I have right now, unless there's 19 anybody else who was interested in 20 speaking. 21 (No response.) MS. PATTY CRONHEIM: Good evening. 22 23 I'm -- or good afternoon. I'm Patty 24 Cronheim with Rethink Energy New Jersey.

And I just want to take this opportunity

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1 to thank you for holding the Energy Master Plan meetings -- or holding the two 2 additional stakeholder hearings and also 3 for the BPU's actions last week in 4 5 investigating safety on distribution lines. We really appreciate that and hope 6 7 it will also extend to the larger 8 transmission lines and the impact of that 9 infrastructure on that. But mostly I just 10 wanted to say thank you for this, and we look forward to working with you in the 11 future 12 MR. MICHAEL HORNSBY: 13 Thanks.

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MS. SARAH BLUHM GIBSON: I think we're going to take a 15-minute break, and if anybody else is interested in speaking, just let us know. We'll reconvene in 15 minutes. Thank you.

(Off the record.)

MS. SARAH BLUHM GIBSON: All right. Welcome back, everyone. We have a new speaker who would like to address us to anytime, Larry Furman.

MR. LARRY FURMAN: Hi. Thank you. Thanks for extending this opportunity to

comment on the Master Plan. It is a privilege to live in a state where the ideas and opinions of people are sought by the agents of this government of the people, by the people, and for the people.

My name is Lawrence Furman. I
live in Manalapan. Back in 2012 when
Sandy hit, we were without power for eight
days. A friend of mine in the Highlands
lost her house. My daughter was at
Rutgers New Brunswick at the time, she
didn't lose power. We went up there to
charge our cell phones and get a hot cup
of coffee. And then we went to my dad's
house in Staten Island. He got power back
faster than we did. My friend Louise in
the Highlands couldn't go to her parents
because they live in the Highlands.

Now -- and this problem is as you all -- and we all know, it's timely -- it's affecting people in Florida today.

It affected people in the Carolinas a few weeks ago and it's probably going to affect them again in a couple of hours.

So we have about 2500 public

schools K to 12 schools in the State of
New Jersey. Taxpayers pay the electric
bills and the infrastructure for those
schools. If we were to install a
50-kilowatt solar array on each of those
schools at a cost to the taxpayers of
about \$2.00 a watt, which is more than
utility price of solar these days, that
would be \$100,000 per school, 250 million
across the state. We would then have
power systems that don't burn fuel, don't
create waste, and do not rely -- do not
necessarily rely on the grid, so they can
be up when the grid is off.

Our public schools operate primarily during daylight hours. So with solar they'd have power when needed when the weather is good. And if we were to add 20 -- the equivalent of 20 Tesla power wall batteries to each school, which would cost around \$90,000 per school, then for an investment of \$190,000 per school and \$475 million across the state, we would have schools with power day and night in every community in New Jersey. And,

again, we would need to add a grid disconnect circuit, which I'm guessing would cost 250 to \$1,000 per school. So, again, that's another 625,000 to 2-1/2 million, bringing the total to somewhere around \$475 million to \$477, eight million.

And with that we get -- where I work now, SubCom, we have an emergency -- we have two emergency generators for our New Jersey facility, they require diesel fuel. They have contracts that specify diesel fuel in the event of a regional power failure, so they've offloaded or outsourced the risk of not being able to get fuel.

You can do that in a commercial entity, but you can't -- what good is an insurance payment to someone who needs their medications refrigerated during an emergency. So with this system we would have emergency generation that is not relying on anything other than the sunlight before the storm to charge the batteries and the sunlight after the storm

because you know after the storm when the sun comes up and those solar modules start kicking around electrons.

Now, this is \$477-and-a-half million, but in settling for 225 million the \$9.2 billion lawsuit Governor Christie settled against Exxon, Governor Christie essentially gave Exxon \$9 billion, and this is \$5.31 for every dollar, I think. And if we were to do this, the citizens of New Jersey would derive benefits in sustainable energy, sustainable infrastructure, and emergency preparedness. Thank you. That, if I may, is part one. I have a part two.

Thank you again. New Jersey

Transit states that we have 1,001.8

directional route miles. I would hazard a

guess that that means 500 miles in one

direction and 500 miles in the other

direction, so if it's, you know, 500 miles

going north and east and another 500 miles

going south and west. Similarly the

turnpike is 122 miles long, the parkway is

172 miles long. Other divided highways

like Route 78, 80, 195 they probably add another 100 to 150 miles.

So assuming we have -- assuming we have 500 miles, and it may be a little more and it may be a little less, but let's assume we have 500 miles of railway and another 400 miles for the parkway, the turnpike, and other divided highways, that's about 900 miles of right-of-way and median linear miles across the state. If we subtract 10 percent of that, we have 800 miles -- gotcha.

Solar modules are 6.4 feet by 3. 3
feet. We could easily mount 820 modules
along each of those 800 miles of railway
right-of-way and highway median. That
would give us 1640 to 3280 to 6560 modules
per linear mile of right-of-way or median.
And with 400-watt modules that's 328
kilowatts to 200 per linear mile or 262
megawatts along those 800 miles of
right-of-way or median. And a system 2
module stick would provide 525 megawatts
of capacity, which was about the main
plate capacity of Oyster Creek when it was

brought online 40 years ago. So I hope 1 you think about that. Thank you. 2 3 MR. MICHAEL HORNSBY: Thank you. MS. GRACE POWER: We're sort of on 4 5 a break until anyone else joins us. (Off the record.) 6 7 MS. GRACE POWER: We're going to 8 get restarted. Welcome. 9 MR. JONATHAN CLOUD: Oh, thank you so much. We really appreciate you 10 11 sticking around for us. 12 MS. SARAH BLUHM GIBSON: Happy to be here. 13 14 MR. JONATHAN CLOUD: My name is 15 Jonathan Cloud. I'm the executive 16 director of New Jersey PACE. Property Assessed Clean Energy, or PACE, is the 17 18 innovative means of financing clean energy and resiliency improvements in buildings. 19 20 We have submitted detailed 21 comments on PACE to the BPU presented in earlier EMP sessions. The thing I want to 22 23 emphasize is the extraordinary value of

PACE for urban communities. New Jersey is

expecting legislation on PACE late this

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year for commercial properties.

I'd like to list -- to first summarize the key features of PACE for the benefit of the public who may not be familiar with it at all or understand the opportunities that it offers their community so that the audience understands the potential for PACE to both transform the energy use in a built-in environment and to provide a sustainable growth engine for the state and local economies.

PACE is a unique financing
mechanism that removes the barriers that
have stopped commercial property owners
from upgrading their buildings with energy
efficiency renewable energy and resiliency
measures. PACE saves commercial property
owners money on energy as soon as they
make the improvements, provides 100
percent of the hard and soft costs with no
upfront costs.

PACE allows you to pay for the retrofits or new construction, the upgrades beyond code over the use for life of the improvements. Projects are

typically cash flow positive right from the start as they are designed to have the energy savings more than cover the annual cost.

The result is more valuable and more comfortable buildings that are more competitive to rent or lease that save energy and often water, and they contribute to local jobs and economic development. With commercial PACE it becomes possible to really renew and revitalize many downtown areas, suburban office parks, strip malls, and other frequently neglected areas. And community and economic development groups should jump on this opportunity to create local jobs, get local vendors involved and get the word out to property owners.

Commercial, by the way, means not just office and retail, but also industrial, agricultural, institutional properties like schools, churches, and hospitals and also multi-family properties. If many or most eligible properties were to implement PACE

projects, then this can have a significant impact on the economy and on the sustainability of our cities and towns.

First thing to notice about PACE is that this financing is not tied to the property owner, but rather to the underlying property so it is automatically transferred to the new owner if the property is sold. This means that the credit worthiness of the current owner is less important than the asset value of the property, which is the key factor in what can be invested

It also means that the property owner doesn't have to worry about whether or not they might want to sell the property before the improvements are fully paid for because they are only paying for the period they are actually using or owning the property.

Basically then PACE financing overcomes some of the major considerations that may be preventing property owners from making the kinds of improvements that make long-term economic and environmental

sense. This is the goal of PACE
legislation because it's not just a
benefit to the private property owner,
it's also in the public interest to have
everyone make these improvements.

And PACE doesn't cost the taxpayers or ratepayers of the state any money. All of the costs of the improvements are ultimately paid for by the property owner who is benefitting from energy savings, increased net operating income, and a more valuable building.

Now, some kind of pays legislature is now available in a majority of U.S. states since its invention in California in 2008. Most recently both Pennsylvania and Delaware passed PACE bills and their respective governor signed them into law, bringing the number to 36 states plus the District of Colombia.

New Jersey got PACE legislation in 2011, but unfortunately the existing statute is missing key elements that would allow its implementation in the Garden State. We have been working with the

legislature for several years to draft amending legislature which we hope to see signed into law later this year.

Residential PACE is likely to come along later. For various reasons residential PACE is more complicated. As I noted above, PACE allows properties owners to make energy and resiliency improvements with 100 percent long-term financing with private sector lenders. This financing is secured by a voluntary special assessment collected by the municipality. Special assessments are widely used in New Jersey to finance improvements such as sidewalks, sewers, and libraries, just to mention a few

The key difference here is that PACE is voluntary and is tailored to the need of each individual commercial property to make major improvements that can pay off over terms of as much as 30 years.

Because PACE payments are attached to the property itself and are not loans to the property owner, they're considered

off balance sheet. This is important for organizations that would otherwise have to choose in their capital budgets between investing in their business and making improvements to their buildings.

Our brief to the EMP lays out the future benefits for potential to PACE in New Jersey and suggests that over the next several years it can play an important role in the transition to 100 percent clean energy. PACE has the potential to literally re-make and transform the built environment around us. Major energy efficiency retrofits can make our buildings both more efficient and more comfortable year round, saving money and cutting carbon emissions.

It's estimated that 50 percent of all the energy produced in the U.S. is wasted. PACE energy efficiency projects typically cut building usage by 30 percent or more.

Most projects are cash flow from the get-go. Fiscally (inaudible) property owners will typically demand that their ongoing savings always exceed their ongoing costs. The good news is that with PACE the property owners reap the immediate ongoing cost savings by using someone else's money. Meanwhile, the investor is receiving an attractive rate of return on investment that is highly secure, being repaid through the town's property tax collection mechanism.

There are very strong market incentives, therefore, to the deployment utilization of private capital that are enabled by state PACE legislation that allows municipalities to exercise a government power at literally no cost to the public to secure the improvement models.

The estimated potential for investing in existing buildings alone exceeds \$130 billion in the state based on an informal market assessment by New Jersey PACE. One of the fastest new applications for PACE is a new construction, where the green elements in the project may represent up to 30 percent

of the costs, thereby reducing the requirements for equity or more costly mezzanine financing.

PACE is expected to become a standard component of a real estate developer's capital stock. Consequently PACE may prove to have as great an impact on building performance as the historical deployment of incentive through the New Jersey Clean Energy program. PACE does not compete with any of these incentives, but rather provides a capital -- a complimentary mechanism to facilitate the uptake of both programs. Financing whatever is not covered by subsidies or other incentives simply removes another barrier to property owner acceptance.

The benefits of PACE to the public include carbon reduction, including the building stock of the community and economic development. For every \$1 million of investment in pays improvements 15 jobs are created.

PACE is voluntary for both the municipality and the property owner.

1 There's no expense to taxpayers and ratepayers. PACE of one of the few ways 2 of reliably financing energy efficiency 3 improvements over the useful life of these 4 5 improvements in a way that benefits everyone involved in the process. 6 7 As noted, we are providing a full 8 set of comments to the EMP and happy to 9 provide comments and respond to any questions. 10 Thank you. 11 MS. SARAH BLUHM GIBSON: Thank 12 you. 13 MR. JONATHAN CLOUD: Any questions? 14 15 MS. SARAH BLUHM GIBSON: No. 16 MR. JONATHAN CLOUD: No? Okay. Thank you. 17 18 MR. MATTHEW POLSKY: I'm Matt 19 Polsky. I have no particular formal 20

affiliation today other than I'm a
long-time sustainability change agent in
state and local government, business
academia, environmental groups, and as a
citizen. I'm coming a long way today from
Warren County. I'm glad you decided to

1	wait for us. Can I ask who you guys are?
2	I've known you for years, but
3	MS. GRACE POWER: I'm Grace Power.
4	I'm the chief of staff of the BPU and the
5	chair of the Energy Master Plan committee.
6	MS. SARAH BLUHM GIBSON: I'm Sarah
7	Bluhm Gibson, and I'm the chair of the
8	Reducing Energy consumption board.
9	MR. MATTHEW POLSKY: Back on
10	track. I need to ask one more question,
11	how much time do I have?
12	MR. MICHAEL HORNSBY: Ten minutes.
13	I'll flag you at 3, 2, 1.
14	MR. MATTHEW POLSKY: Okay.
15	Because I've got so much to say, I've got
16	40 years of observations to say, so
17	obviously I'm only going to get to a
18	portion and I understand you want the
19	comments by the end of the week?
20	MR. MICHAEL HORNSBY: Friday at
21	5:00.
22	MR. MATTHEW POLSKY: All right.
23	Let me get back to this. I will be
24	discussing climate change, a clear theme
25	within the state of direction of the EMP.

I will, though, be going way beyond just its presence there to speak to you and your audience, as slim as it might be today, about this subject offering both the cutting edge and the mundane. After 40 years this will likely be the last time I speak at a public forum or to a state body about a New Jersey issue.

You may have heard of the release of the latest IPCC report earlier this week. That report called Global Warning

1. 5 Degree Celsius found that some of the intense damage of droughts, floods, everything that goes with that, anticipated to occur at 2 degrees celsius at pre-industrial levels will occur at this lower concentration and earlier by 2040.

It mentions the term

transformation, saying avoiding the damage
will require transforming the world's
economy at a speed and scale that no one
documented -- that has no documented
historic precedent and requires
transforming the world economy within just

a few years. It's a very tall order.

I'll mention this term in my -- a little bit later, but mostly I'll focus on it in my written comments to you later. But a major implication is that we're going to have to extend our reach, the required speed of getting there and fundamentally question assumptions about business as usual change, which usually means seeking much smaller incremental levels of change. We have to think very differently about things if we're going to have a chance.

The reports says levels of greenhouse gas emissions would have to drop to zero by 2050, which sounds like a very close cousin to New Jersey's 100 percent renewable energy goal. While affordability is always rightfully a big concern in energy policy, the report discusses magnitudes of carbon taxes that are much higher than anyone has ever conceived as one way to reach that goal.

So we may have to think what affordability means, including weighing it

against damage to GNP and coming up with more ways to mitigate and offset the pain they would bring. It should also put any criticism about the size of solar or wind subsidies in perspective.

I have the unique experience of having been involved with climate change in New Jersey for 40, years, including 12 at DEP at the end of the Kean administration, to the early McGreevey administration. I was one of two staffers trying from the inside to get the department interested before almost anyone in environmental circles cared about the issue.

And once the DEP started some non-ambitious initiatives, but weren't bad for the time, I tried to get them to stretch to do more. Those years provided another set of experiences that need to be passed on, especially as I see the decades passing. I tend to say things that no one else does, and I will be doing some of that now. I will be publishing the first of a series on climate change in New

Jersey later this week under the theme what is being missed. I've been phasing out of New Jersey things in order to study sustainability transformation, which was mentioned in the CBC report at the global level for a Ph.D. So that series will also be my final written contribution to New Jersey.

Switching gears, I think it is great that New Jersey is finally taking climate change seriously, so I have to say thank you for that. The Murphy administration has several policy initiatives on or directly related to it including some with typically ambitious goals. You, of all people, certainly know this, so there's no reason to mention them. And it is refreshing.

However, we must go much further.

What isn't being noticed at the several

climate change forums that I've gone to

over the years and even recently, that

while important information is always

presented, both the analyses, the

recommendations, and even the

perspectives, are invariably incomplete.

2 They tend to emphasize advocacy and

3 activism on things like voter

4 registration, protesting pipe lines,

5 supporting certain bills in the

6 legislature, advocating certain actions

7 universities can take, like this

8 investment for fossil fuel, they identify

9 bad-guy companies.

Now, certainly these are all important, but they do not mention the companies that have stepped up to support staying in the Paris agreement, which can set larger possibilities that we're missing totally. They do not usually offer any creative ideas, which students of all people, really need to hear. They do not say that it will be anything but easy to tackle climate change, or that the usually narrow paths provided will be far from sufficient. Indeed, addressing climate change will likely be the challenge of this student generation, and they need to be told this.

These conferences also reveal

mindset traps, mindset traps, that inhibit transformational change such as we can do either litigation or resiliency, apparently not both. Now, this one has gotten better in recent years, as we now seem to realize we have to do both. They're not mutually exclusive.

But another one that continues is that there is no purpose or recognition of a need to talk to conservatives, or Trump voters, about addressing climate change.

I recognize this is very controversial, and many people -- many people disagree with me on this. But they are part of the picture and they're again ignored or seen as unchangeable deniers. So even though we are saying that we need huge carbon emissions overall, somehow we'll work around the need for behavioral changes from them as well to reduce carbon emissions. We cannot afford to give them a by, we have to figure it out.

Also, at these conferences no one is saying the very blunt we don't know how to get to 80 to 100 percent carbon

reductions. How are we going to figure it out if we don't recognize the challenge.

Also no one is recognizing that climate change as far as academics are a wicked problem. According to Wikipedia a wicked problem is a problem that is difficult or impossible to solve because of incomplete contradictory and changing requirements that are often difficult to recognize. The wicked part doesn't mean it's evil, it means it is resistant to revolution.

Some of the -- well, I'll mention one. One of the wicked problems' properties are that time is running out, actually making it what's called a super wicked problem, so we have to act quick.

Another reason -- okay. I'll give you a second one, that climate change qualifies as a wicked problem is because it requires a great number of people to change their mindsets and behaviors, it requires tending to our longer-term interest, which is not our strength. So humility will be necessary and preferable

if the need for it is at least modeled at conferences and elsewhere.

We're going to need more comprehensiveness at least in part because not all current policies, as good as they seem, are going to work as planned. We're going to need much more creativity and innovation and awareness of when conditions are naturally conducive.

We're going to need intergenerational determination and to be constant learners. This applies no matter what sector we are in. Not something we've ever been asked to do before. We'll have to figure that one out, too. We just can not leave audiences with the impression that the materials covered in any particular conference or event are sufficient, most likely no one conference ever could be by itself.

Okay. So here I have about 24 recommendations, and I'm out of time, so let me give you one or two before I run out of time. All right. Set an explicit goal of zero emissions, greenhouse gas

emissions, by 2050 or soon afterwards.

Another recommendation, seek a green economy on steroids. While the concept of clean or green jobs is often heard at these forums with their obvious benefits for both the environment and the economy, it is possible to take this much further over time, nearly economy-wide. It can go beyond solar, wind, efficiency, to nearly every sector and involving most New Jersey companies. This has never been done and the topic of a much-extended green economy almost never comes up and it is another missed opportunity that we should jump on.

A report was issued by my class earlier this year that covers much of the ground for how this might be done in New Jersey. One minute. Okay. No time to discuss it here, but it does cover climate change in part by encouraging New Jersey companies to buy clean power and adopt zero emission goals, which isn't as crazy as it sounds, because it is already starting to happen.

As I mentioned, a number of

companies have accepted the Paris
agreement. This report also covers a
number of topics rarely discussed in New
Jersey such as E-corps, social
entrepreneurship, quite a bit on the
potential of corporate social
responsibilities and the triple bottom
line, green design, regeneration,
ecosystem services, the circular economy.

It discusses a philosophy, ecological modernization, which brings together the economy and the environment productively, totally different from the adversarial nature of how the federal government sees them.

I've sent this report to high levels in state government, including the president of the BPU and one of the other commissioners, but to date I have not seen an official response, which it should still be considered within state government and elsewhere. I have a few copies of it with me today.

I think I'm probably out of time, so let me --

MR. MICHAEL HORNSBY: 1 Yes. MR. MATTHEW POLSKY: So let me end 2 3 by saying thank you for the floor, for hanging around for us because we did not 4 5 want to waste our trip. I hope you found my remarks useful. Good luck with the 6 7 task. 8 I've always maintained the respect 9 for state government employees. I fought for you guys when I was there, and I hope 10 there are pockets of quiet or not so quite 11 12 change agents within BPU and that you recruit more of them. Thank you. 13 MR. MICHAEL HORNSBY: Thank you. 14 15 MS. SARAH BLUHM GIBSON: And feel 16 free to submit your 24 recommendations, 17 too. 18 MR. MATTHEW POLSKY: Excuse me? 19 MS. SARAH BLUHM GIBSON: Feel free to submit your 24 recommendations. 20 21 MR. MATTHEW POLSKY: Okay. Feel free to read them. 22 23 MS. SARAH BLUHM GIBSON: I think 24 we're back on a break. 25 (Off the record.)

1	MS. SARAH BLUHM GIBSON: If you
2	could let us know your name.
3	MR. ROBERT DeDOMENICO: My name is
4	Robert DeDomenico with Cargo Fish.
5	MS. GRACE POWER: Just so you
6	know, I'm Grace Power, the chair of the
7	Master Plan committee. Welcome. You
8	missed our opening remarks, but we're so
9	glad you made it tonight.
LO	We have a few of our working group
L1	chairs here, if you want to introduce
L2	yourselves briefly. MS. SARAH BLUHM
L3	GIBSON: Oh, sorry. Sarah Bluhm Gibson.
L <b>4</b>	I'm chairing the Reducing Energy.
L5	MR. ROBERT DeDOMENICO: Sarah, I
L6	tried to make it to yours, but couldn't.
L7	MS. SARAH BLUHM GIBSON: Yes. I
L8	remember your name.
L9	MR. MICHAEL HORNSBY: I'm Mike
20	Hornsby, and I'm heading up the Clean and
21	Reliable Transportation committee and more
22	importantly the keeper of the ten-minute
23	clock here.
24	MR. ROBERT DeDOMENICO: Big help.
25	We met at the resilient infrastructure.

MR. MICHAEL HORNSBY: Yes, we did. 1 MR. MIKE WINKA: Mike Winka, 2 Building a Modern Grid. 3 MR. KENNETH SHEEHAN: Ken Sheehan, 4 5 Clean and Renewable Energy. MR. ROBERT DeDOMENICO: Thanks. 6 Ι 7 think I remember seeing you. MR. MICHAEL WINKA: We did talk. 8 9 MR. ROBERT DeDOMENICO: Ken, nice 10 to meet you too. The pleasure is mine. Again, I apologize for being so late, but 11 I started the morning in Mannington and I 12 13 just finished taping for a radio program in New York City, and that was two 14 15 o'clock, so I just got here as soon as I 16 could. I'll try to jump to it. So, for the record, Robert 17 DeDomenico, D-e-D-O-M-E-N-I-C-O, and this 18 is the third meeting I've been able to 19 find time to attend and give comments. 20 I want to try not to cover the exact same 21 things as I did before. 22 23 So for New Jersey's Energy Master 24 Plan I have some written statement that's 25 almost ready, and I'm want to try to

provide as much technical supporting information as I can because when you look at freight movement, actually the arterial freight has really been optimized to a great degree and the part of freight movement that really is the low-hanging fruit that leaves the most room for improvement is the last mile.

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Some of the things you'll here people talk about in the industry, and I've been chasing this for over eight years is that -- they'll say things like the first dollar will give (inaudible) fast-moving consumer goods from China to a distribution center in Allentown. The next dollar will get it from that distribution center to a retail store loading dock. It costs another dollar to get that same amount from that loading dock to the shelf. But it costs the consumer about \$3.00 in transportation costs to come and get it at the retail store.

And it really doesn't get better on the money standpoint for the

E-commerce, which for a decade people have been doing, rising 10, 15 percent a year in E-commerce.

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Lots of double parking, trucks in New York City, you know, UPS vans and it continues. There's no sign that this growth is going to stop, and for UPS, you know, when I have about 50 online suppliers for the prototypes I've been building gradually, increasing in capability, and just about ready to demonstrate, and you pay about \$6.50 for -- at least for a UPS package. first \$3.25 get it from Missouri or wherever, to Vineland, and then the last \$3.25 is to put it on a truck at 6:00 in the morning at Vineland to drop it off at my house at 3:00 in the afternoon, eight miles away and nine hours later.

The most expensive is the last mile, wide-laid knowledge. And so well once we -- well, acknowledging that, okay, but what to do about it. I think I offered some comparisons, one other, how

much will it do for you.

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If you observe any supermarket, you'll see a ratio of about one loading bay behind the supermarket for every 100 parking spots out front. And, likewise, there are other issues such as for every full truck that shows up with 20 or 25 tons of grocery fast-moving consumer goods, one to 2,000 cars come and go out the front because we shop for that little at a time. The average grocery store take is \$30.00, thirty-three nationwide, and weighs about 20 pounds. The average convenient store take is \$5.00 and weighs about 2 pounds. Those are the averages.

A convenient store gallon of milk weighs eight pounds, and plenty of people buy it. The average is two because most purchases weigh less than one, a cup of coffee, pack of cigarettes. Many of those purchases are bought intended to be consumed on the road, but many of them are resupplies of what you're out of at home. And you drove a car, you know, two or three miles to go and get -- oh, I'll get

a loaf of bread, a dozen eggs, and a gallon of milk so I'm making use of a trip, and you did it in a 4,000-pound car, and the energy intensity is up in the hundreds of thousands, millions of BTUs per ton mile. And the reason is simple. If you look at the horsepower of the car, the motor is 100 to 150 horse, and the payload is about 10 pounds.

I mean, the reason arterial freight is so much cheaper and more energy efficient is that for a ship on the ocean there's one horsepower of engine for every ten tons of shipment. Three quarters of the ship is payload or more, some of the bulk carriers. For a freight train -- everybody knows they're very efficient, 400 and some miles on a gallon of fuel. The ocean is 100 BTU a ton mile. Rail is about, in North America, 285 BTUs a ton mile, is the recent performance. And a train has about 2 horsepower per ton.

A tractor-trailer fully loaded is about 12 horsepower per ton. That's 80 tons, you have 500 horse. That's typical.

But when you're using a car, you're using 100 horsepower capable and you're using 10 or 20 horsepower just steady state and, you know, 30 to 60 miles an hour. And if that payload is only 10 or 20 pounds or even 40 or 50, there's where your losses are.

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And trying to overcome that with drones is actually just a Ninja application. Nothing uses more energy than a helicopter that -- it takes about a horsepower for every ten pounds to fly a helicopter. And that's just to levitate. If you want any margin of safety, you need about one horsepower for every four pounds. And every drone built adheres to these ratios because they have to fly. And they're a very energy-intensive way that gets a lot of press coverage but is never going to handle the everyday staples of life. That's why you don't see helicopters flying the spoil out a coal mine or any mining operation anywhere.

So just in case I missed something in my written statements I wanted to make

sure I came by and told you again as best I can. Because I've poured a lot of work into this because ever since noticing it I've realized, wow, I'm on to something.

And I can't stop, even if I'm just one person with a garage, a couple of helpers. It doesn't matter. I've solved problems before, interesting problems.

Funny story, so when I was in the scheduling department at Salem -- and so we had a forced outage in the summer and the output of the unit comes to 2 output breakers onto the main 500 kV yard, and one of those breakers was unavailable because of a bushing problem to the -- you have to use a Synchroscope because when you're closing ACE circuits together, you have to close them in phase or you'll kill people. Generators will flip on their side out of phase closure. It's like an explosion.

So you have to be able to have the Synchroscope sensors on each side of any breaker that you're going to close when you're live to live. Well, that breaker

was unavailable. The only other output breaker was also unavailable because there was a problem with the phase bravo -- it's a three-phase AC. There was a problem with one of the pick-ups.

So we had an emergency temporary change package to cut that over to Charlie phase. And if Charlie phase was in sync, we could -- and a generator came back in time, we would have ready to synchronize and we wouldn't hold up and -- you know, we'd lose a million dollars an hour in revenue when that plant is offline. And that's before the penalties. This was in July when power demand is high.

So the next bus down the line, there was a line outage to the next part of the distribution grid, and that line was out of service, so that bus was just tying just down to the next breaker. And I said, hey, why don't we just drop that next bus, it's really not being used, close this breaker without any power on either side of it. We don't have to do a DCP. Your next breaker in line, there's

no problem with the sensing and the Synchroscope works, and then we just do a procedure change, start up, and when we fire up the generator, we'll just synchronize against the breaker.

Some of my colleagues laughed at me because they're not used to outside the box thinking. But when I get to Harlin Hansen (ph), the manager in charge, he said, wow, that's plan A, and we'll do plan B if we need it. Let's keep prepping just on case because there's a lot of technical issues.

But I have the background for what I'm bringing to the state, and I'm doing it because it's a good thing and I know that's what you're looking for, and I'm happy to help. And so we can go a long way towards saving, not just energy but petroleum, and not by burning 3 kilowatts per mile in a full-blown electric car, although you need them when you move people. But we can go a thousand miles on a kilowatt hour just carrying the goods. And there are two purchases per household

1	per day in America just between
2	convenience and grocery store.
3	So it really does add up to a lot,
4	and no matter what questions you have,
5	I'll help answer. If there's any kind of
6	ping for information, I'll respond, if
7	there's any necessary help on the draft
8	plan. So I'm glad you were still open
9	until 7:30. It's been a long day for me.
10	Thank you.
11	MS. GRACE POWER: Thank you for
12	coming.
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16	(The proceedings adjourned at 7:30 p.m.)
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1	CERTIFICATE
2	
3	STATE OF NEW JERSEY )
4	) ss.
5	COUNTY OF BURLINGTON)
6	
7	I, LAURA P. REAM, a
8	Shorthand (Stenotype) Reporter and
9	Notary Public of the State of New
LO	Jersey, do hereby certify that the
L1	foregoing hearing, taken at the time and
L2	place aforesaid, is a true and correct
L3	transcription of said deposition.
L <b>4</b>	I further certify that I am
L5	neither counsel for nor related to any
L6	party to said action, nor in any way
L7	interested in the result of outcome
L8	thereof.
L9	IN WITNESS WHEREOF, I have
20	hereunto set my hand this 18th day of
21	October, 2018.
22	
23	Laura P. Ream
24	LAURA P. REAM
25	

	academic (1)	34:20	24:6;32:4	72:11
\$	24:21	addressing (3)	aggregation (1)	apparently (1)
	academics (1)	14:7;64:21;65:11	29:11	65:4
<b>§1</b> (1)	66:4	adheres (1)	ago (2)	appear (1)
57:22	accelerate (2)	77:16	44:23;49:1	14:18
<b>\$1,000</b> (1)	15:16;38:17	adjourned (1)	agreement (3)	applaud (1)
46:3	acceptance (1)	81:16	24:7;64:13;69:2	15:15
\$100,000 (1)	57:17	administration (4)	agricultural (1)	applauds (2)
45:9	accepted (1)	14:6;62:10,11;	51:21	6:12;14:6
<b>\$130</b> (1)	69:1	63:13	air (9)	application (1)
56:20	accepting (1)	administration's (1)	11:23;13:9,20;	77:10
<b>\$180</b> (1)	4:24	41:10	37:12;38:7,21,23;	applications (1)
9:3	access (2)	admitted (1)	39:2;40:18	56:23
\$190,000 (1)	34:9;39:12	20:16	Allentown (1)	applies (1)
45:22	accessibility (1)	adopt (1)	73:15	67:12
<b>\$2</b> (1)	23:3	68:21	alliance (2)	applying (1)
7:25	accordance (1)	adoption (1)	32:25,25	27:13
\$2.00(1)	33:17	12:4	allocated (1)	appreciate (4)
45:7	according (2)	adults (1)	13:3	33:10,13;43:6;
\$3.00(1)	15:18;66:5	37:11	allow (1)	49:10
73:21	ACE (1)	adversarial (1)	53:24	appropriate (2)
\$3.25 (2)	78:17	69:14	allows (3)	11:6;22:22
74:15,17	achieve (2)	advocacy (1)	50:22;54:7;56:14	approval (1)
\$30.00(1)	18:25;19:17	64:2	almost (3)	21:15
75:12	achieving (1)	advocates (1)	62:13;68:13;72:25	approved (2)
\$300,000 (1)	15:25	30:14	alone (1)	7:22;9:10
12:20	acknowledging (1)	advocating (1)	56:19	approximately (3)
\$475 (2)	74:23	64:6	along (4)	12:6;20:1;25:22
45:23;46:6	across (7)	Affairs (1)	3:20;48:15,21;54:5	area (2)
\$477 (1)	12:22;38:7,18;41:9;	4:18	alternate (1)	10:3;36:25
46:6	45:10,23;48:10	affect (1)	26:14	areas (7)
\$477-and-a-half (1)	Act (4)	44:24	alternative (1)	5:9;14:1;23:3;
47:4	21:19;22:10;41:5;	affected (2)	30:5	38:10,22;51:12,14
\$5.00 (1)	66:17	38:23;44:22	although (1)	around (10)
75:14	action (1)	affecting (1)	80:22	6:20;28:18;31:17;
\$5.31 (1)	36:20	44:21	always (5)	45:21;46:6;47:3;
47:9	actions (8)	affiliation (1)	41:3;56:1;61:19;	49:11;55:13;65:19;
\$55 (1)	11:7,13;14:9;26:12;	58:20	63:23;70:8	70:4
6:25	40:13;41:3;43:4;64:6	afford (1)	ambitious (1)	array (1)
\$6.50 (1)	active (1)	65:21	63:15	45:5
74:13	19:5	affordability (2)	amending (1)	arrived (1)
\$9 (1)	activism (1)	61:19,25	54:2	42:15
	64:3	affording (1)	America (2)	arterial (2)
47:8	actually (7)	23:24	76:20;81:1	73:3;76:10
<b>\$9.2</b> (1)	4:8;15:16;33:24;	aforementioned (1)	American (1)	asbestos (1)
47:6	52:19;66:16;73:3;	9:20	7:6	11:11
\$90,000 (1)	77:9	afternoon (6)	among (1)	aside (1)
45:21	add (5)	3:1;6:6;17:24;36:5;	13:16	31:5
<b>A</b>	16:24;45:19;46:1;	42:23;74:19	amount (2)	Assessed (1)
A	48:1;81:3	afterwards (1)	9:7;73:19	49:17
1.114 (4)	adding (2)	68:1	analyses (1)	assessment (2)
ability (1)	6:14;33:11	again (12)	63:24	54:12;56:21
20:11	addition (1)	4:24;5:23;6:1;	analyzed (1)	assessments (1)
able (6)	8:20	17:13;26:15;44:24;	40:5	54:13
15:5;33:11;35:7;	additional (7)	46:1,4;47:16;65:15;	annual (1)	asset (1)
46:15;72:19;78:22	4:11;6:13,15;7:3,	72:11;78:1	51:3	52:11
above (3)	19;15:10;43:3	against (3)	annually (1)	assist (1)
16:2;25:22;54:7	Additionally (1)	47:7;62:1;80:5	38:9	14:10
absolutely (2)	20:16	agent (1)		Associate (1)
15:15,19	address (5)	58:21	anthropogenic (1) 25:14	
AC (1)				6:7
79:4	11:7;13:23;33:2;	agents (2)	anticipated (2) 26:2;60:15	<b>assume (1)</b> 48:6
academia (1) 58:23	34:15;43:22 addressed (1)	44:4;70:12 aggregated (2)	apologize (1)	assuming (2)

		Ti de la companya de		7
48:3,3	55:1	39:10	37:8;41:1	39:17;55:4;58:22;
assumptions (1)	Baltimore (1)	billion (4)	Brian (3)	61:9
61:8	32:1	38:8;47:6,8;56:20	17:22,23,24	businesses (2)
asthma (4)	barrier (1)	billions (1)	brief (3)	6:24;9:1
13:12;20:25;37:10,	57:17	26:7	3:10,22;55:6	buy (2)
19	barriers (2)	bill-lowering (1)	briefly (3)	68:21;75:18
Atlantic (1)	34:7;50:13	11:12	6:11;35:15;71:12	
31:24	base (2)	bills (5)	brighter (1)	$\mathbf{C}$
attached (1)	28:2,14	9:18;38:20;45:3;	40:19	
54:23	based (4)	53:17;64:5	bring (2)	California (5)
attend (1)	5:4;29:23;36:8;	biogas (2)	28:5;62:3	27:8;28:19;32:3,6;
72:20	56:20	8:9;17:9	bringing (4)	53:15
attractive (1)	Basically (1)	bit (3)	28:16;46:5;53:19;	call (2)
56:6	52:21	27:7;61:3;69:5	80:15	17:7;38:16
audience (2)	batteries (2)	blessing (2)	brings (1)	called (2)
50:7;60:3	45:20;46:25	37:1,7	69:11	60:11;66:16
audiences (1)	bay (1)	blueprint (1)	brought (1)	calling (1)
67:16	75:4	3:17	49:1	41:18
audit (1)	bear (1)	<b>BLUHM (24)</b>	Brunswick (1)	calls (1)
10:23	14:2	6:4;14:20;17:15;	44:11	10:7
Audubon (1)	became (1)	27:2;32:15;35:9,16,	brunt (1)	Camden (10)
8:6	28:23	17;36:3;42:13;43:14,		6:15,18;7:11,16;
authority (1)	become (3)	20;49:12;58:11,15;	BTU (1)	8:8;9:4;10:2;14:13;
8:9	24:18;26:14;57:4	59:6,7;70:15,19,23;	76:19	16:23;17:1
authors (1)	becomes (1)	71:1,12,13,17	BTUs (2)	Camden's (2)
25:17	51:11	blunt (1)	76:5,20	6:22;7:17
automatically (1)	Beesley's (1)	65:24	budgets (1)	came (3)
52:7	28:13	Board (8)	55:3	15:23;78:1;79:9
automobile (1)	began (1)	3:7;6:12;7:22;18:3,	build (3)	campaigns (3)
22:2	28:22	12,15;26:15;59:8	16:16;28:12;29:2	22:23;23:10;24:6
available (1)	begin (1)	body (1)	building (12)	Campbell's (3)
53:14	8:4	60:8	7:10;11:7;28:23;	8:14,16,22
average (5)	behalf (4)	Boles (3)	35:23;39:22;42:4;	can (27)
12:2;37:20;75:11,	3:6;15:7;19:10;	32:21,22,23	53:12;55:21;57:8,20;	9:16;13:23;16:7,15;
13,18	41:8	both (12)	72:3;74:11	26:14;29:24,25;30:4;
averages (1)	behavioral (1)	9:7;23:3;50:8;	buildings (6)	33:24;38:13;45:13;
75:15	65:19	53:16;55:15;57:14,	49:19;50:15;51:6;	46:17;52:1,13;54:21;
avert (1)	behaviors (1)	24;60:4;63:24;65:4,6;		55:9,14;59:1;64:7,13;
15:20	66:22	68:6	built (3)	65:2;67:16;68:8;73:2;
avoiding (1)	behind (1)	bottom (1)	28:6;55:12;77:16	78:2;80:18,23
60:20	75:4	69:7	built-in (1)	cancer (1)
awareness (1)	believes (2)	bought (1)	50:9	13:13
67:8	10:1;13:15	75:21	bulk (1)	capability (1)
away (1)	below (1)	box (1)	76:16	74:12
74:20	40:8	80:8	burdens (3)	capable (1)
74.20	benefit (3)	BPU (8)	17:4,4,12	77:2
В	23:20;50:4;53:3	3:13;9:10;10:6;	bureaucratic (1)	capacity (7)
<b></b>	benefits (6)	14:7;49:21;59:4;	24:9	7:3;28:7,9,15;
back (10)	12:25;47:11;55:7;	69:18;70:12	Burlington (1)	31:14;48:24,25
4:9;6:18;27:22;	57:18;58:5;68:5	BPU's (1)	9:4	capital (5)
43:21;44:7,15;59:9,	benefitting (1)	43:4	burn (1)	24:15;55:3;56:12;
23;70:24;79:9	53:10	bravo (1)	45:11	57:6,12
background (2)	best (2)	79:3	burning (2)	capitalize (1)
29:19;80:14	26:24;78:1	bread (1)	17:9;80:20	25:9
	20.24,70.1	76:1	bus (5)	capitalizing (1)
	hottom (5)	/0:1		26:21
backgrounds (1)	better (5)	brook (2)		
37:4	9:17;41:4;42:3;	break (3)	12:12,20;79:16,19,	
37:4 back-up (1)	9:17;41:4;42:3; 65:5;73:24	43:15;49:5;70:24	22	capture (1)
37:4 back-up (1) 28:9	9:17;41:4;42:3; 65:5;73:24 <b>beyond (7</b> )	43:15;49:5;70:24 <b>breaker (7)</b>	22 <b>buses (7)</b>	capture (1) 25:6
37:4 back-up (1) 28:9 bad (1)	9:17;41:4;42:3; 65:5;73:24 <b>beyond (7)</b> 20:15;22:10;25:11;	43:15;49:5;70:24 <b>breaker (7)</b> 78:24,25;79:2,20,	22 buses (7) 12:16,21;13:3,8,21;	capture (1) 25:6 car (8)
37:4 back-up (1) 28:9 bad (1) 62:17	9:17;41:4;42:3; 65:5;73:24 <b>beyond (7)</b> 20:15;22:10;25:11; 26:9;50:24;60:1;68:9	43:15;49:5;70:24 <b>breaker (7)</b> 78:24,25;79:2,20, 23,25;80:5	22 buses (7) 12:16,21;13:3,8,21; 37:15;39:6	capture (1) 25:6 car (8) 22:4;30:16,19;
37:4 back-up (1) 28:9 bad (1) 62:17 bad-guy (1)	9:17;41:4;42:3; 65:5;73:24 <b>beyond (7)</b> 20:15;22:10;25:11; 26:9;50:24;60:1;68:9 <b>big (2)</b>	43:15;49:5;70:24 breaker (7) 78:24,25;79:2,20, 23,25;80:5 breakers (2)	22 buses (7) 12:16,21;13:3,8,21; 37:15;39:6 bushing (1)	capture (1) 25:6 car (8) 22:4;30:16,19; 75:24;76:3,7;77:1;
37:4 back-up (1) 28:9 bad (1) 62:17	9:17;41:4;42:3; 65:5;73:24 <b>beyond (7)</b> 20:15;22:10;25:11; 26:9;50:24;60:1;68:9	43:15;49:5;70:24 <b>breaker (7)</b> 78:24,25;79:2,20, 23,25;80:5	22 buses (7) 12:16,21;13:3,8,21; 37:15;39:6	capture (1) 25:6 car (8) 22:4;30:16,19;

20:2;25:6;30:4;	64:19,22;65:2,11;	19:23;21:13;22:13;	53:20	compete (1)
39:1;55:17;57:19;	66:4,19,22;68:20;	24:20;27:9;68:15	color (1)	57:11
61:21;65:17,20,25	70:12;79:7;80:3	clean (38)	33:9	competition (2)
care (1)	change-related (1)	3:18;8:13;10:5,11;	combat (1)	28:18,24
34:7	38:10	11:16;14:10;15:14,	18:21	competitive (1)
cared (1)	changes (3)	17;16:11,15,25;17:5,	combine (1)	51:7
62:14	21:14;40:9;65:19	7;18:10,19;19:23;	38:2	complete (4)
Cargo (1)	changing (1)	22:4;23:8,14,16;24:4,	combined (1)	7:14,17;22:1;26:19
71:4	66:8	18;25:1;26:18,23;	28:1	completed (2)
Carolinas (1)	charge (3)	34:25;35:20;36:1;	comfortable (2)	7:2;8:3
44:22	44:13;46:24;80:9	40:16;42:6;49:17,18;	51:6;55:16	complex (1)
carriers (1)	chargers (1)	55:11;57:10;68:4,21;	coming (5)	21:7
76:16	8:25	71:20;72:5	36:15;37:5;58:24;	complicated (1)
carrying (1)	charging (5)	cleaner (2)	62:1;81:12	54:6
80:24	8:22,24;12:17,18;	12:2;40:18	commend (1)	complimentary (1)
	23:2		18:15	57:13
cars (3)		clear (3)		
12:9;37:15;75:9	Charlie (2)	20:8;21:25;59:24	comment (4)	component (3)
case (2)	79:7,8	clearly (2)	4:12;27:20;33:12;	12:12;31:3;57:5
77:24;80:12	chasing (1)	20:3;25:19	44:1	comprehensiveness (1)
cash (2)	73:11	climate (25)	comments (16)	67:4
51:1;55:23	cheaper (1)	15:18,20,22;16:19;	4:24;5:13;6:2;	compressor (1)
cause (1)	76:11	18:19,22;20:5,7,12;	14:19;19:21;27:6;	20:18
17:6	chief (1)	25:14;37:22,23;38:9;	30:20;35:5;36:12;	comprised (2)
	59:4	40:3;59:24;62:7,25;	· · · · · · · · · · · · · · · · · · ·	4:1:33:1
causes (1)			37:3;49:21;58:8,9;	
38:8	children (8)	63:11,21;64:19,22;	59:19;61:4;72:20	comprises (1)
<b>CBC</b> (1)	13:1,5;14:2;19:4;	65:11;66:4,19;68:19	commercial (7)	4:1
63:5	20:22;37:9,18;42:4	clock (1)	46:17;50:1,14,17;	conceived (1)
cell (1)	children's (2)	71:23	51:10,19;54:19	61:23
44:13	20:14;26:9	close (4)	Commissioner (1)	concentration (1)
celsius (4)	China (1)	61:17;78:18,24;	18:4	60:17
16:1;25:22;60:12,	73:14	79:23	commissioners (3)	concept (2)
15.1,23.22,00.12,	choice (1)	closely (2)	5:18;18:5;69:19	30:23;68:3
	29:11			
center (4)		7:23;29:4	commitment (1)	concern (1)
7:6,11;73:15,17	choose (2)	closing (1)	41:11	61:20
centered (1)	39:17;55:3	78:17	committed (1)	conditions (2)
6:20	Christie (2)	closure (1)	41:16	20:24;67:9
centers (1)	47:6,7	78:20	committee (4)	conducive (1)
24:21	Church (1)	Cloud (7)	4:6;59:5;71:7,21	67:9
central (4)	19:8	32:19;42:15;49:9,	committees (2)	conference (2)
3:16;29:7,16;30:18	churches (1)	14,15;58:13,16	5:15;30:13	67:18,19
certain (2)	51:22	CO2 (1)	committee's (1)	conferences (3)
64:5,6	cigarettes (1)	12:6	4:7	64:25;65:23;67:2
certainly (4)	75:20	coal (1)	communities (22)	conjunction (1)
33:21;35:5;63:16;	circles (1)	77:22	11:15;17:1,3,11;	22:17
64:10	62:14	Coalition (1)	20:20;23:4,19;24:16;	Consequently (1)
chair (3)	circuit (1)	36:10	31:18;33:5;34:5,9,21,	57:6
59:5,7;71:6	46:2	code (1)	24;37:10,24;38:13,	conservatives (1)
chairing (3)	circuits (2)	50:24	14;40:19;41:17;42:5;	65:10
35:17,20;71:14	7:14;78:17	codified (1)	49:24	consider (2)
		, ,		
chairs (2)	circular (1)	25:13	Community (11)	16:24;39:20
35:13;71:11	69:9	coffee (2)	4:18;27:12,15,19;	considerations (1)
challenge (2)	cities (7)	44:14;75:20	31:22;32:10;41:9;	52:22
64:23;66:2	36:15;37:21;38:12,	cogeneration (2)	45:25;50:7;51:14;	considered (2)
challenges (1)	22;39:8,13;52:3	7:24;29:10	57:20	54:25;69:21
30:2	citizen (2)	colleagues (1)	companies (6)	consistent (2)
chance (3)	19:10;58:24	80:6	29:15;64:9,12;	11:19;29:20
				-
15:11;17:14;61:13	citizens (1)	collected (1)	68:11,21;69:1	constant (1)
change (29)	47:10	54:12	Company (3)	67:12
15:20,22;16:19;	city (8)	collection (1)	6:9;12:13,21	construction (3)
18:22;20:5,7,12;	6:23;8:17;10:2;	56:9	company's (1)	39:7;50:23;56:24
25:15;37:23;40:3;	14:12;27:16,16;	colleges (1)	10:8	consumed (1)
58:21;59:24;61:9,11;	72:14;74:6	9:1	comparisons (1)	75:22
62:7,25;63:11,21;	class (6)	Colombia (1)	74:25	consumer (3)
		( <u>1</u> )		

73:14,21;75:8	Counsel (1)	52:10;67:5	defining (1)	5:18
consumers (1)	6:8	currently (1)	25:15	diesel (8)
22:20	counter (1)	34:8	definition (1)	13:9,10,16,19,24;
consumption (2)	21:17	customer (2)	26:18	39:6;46:11,13
9:17;59:8	counties (1)	29:11,12	degree (4)	difference (1)
contains (2)	9:4	customers (5)	16:1;25:22;60:12;	54:17
11:17;12:11	counting (1)	9:16;10:10,14,19,	73:5	different (3)
contamination (1)	27:1	22	degrees (3)	29:6;30:10;69:13
21:2	countries (2)	cut (2)	26:1;40:8;60:15	differently (1)
				61:12
continually (1)	25:18;40:5	55:21;79:7	Delaware (1)	
40:25	County (5)	cutting (2)	53:17	difficult (2)
continue (1)	7:11;8:8;14:13;	55:17;60:5	deliberate (1)	66:7,9
26:16	15:3;58:25	cycles (1)	24:13	dioxide (1)
continues (3)	couple (2)	28:1	deliver (2)	20:2
7:23;65:8;74:7	44:24;78:6	-	4:13;16:21	direct (2)
continuing (2)	cousin (1)	D	delivering (1)	10:17,23
16:16;17:8	61:17		15:7	direction (4)
contracts (1)	cover (4)	dad's (1)	demand (4)	5:8;47:20,21;59:25
46:12	12:14;51:3;68:19;	44:14	6:14;29:8;55:25;	directional (1)
contradictory (1)	72:21	daily (1)	79:15	47:18
66:8	coverage (1)	37:16	demonstrate (1)	directly (1)
contribute (2)	77:19	damage (6)	74:13	63:14
16:18;51:9	covered (2)	26:7;38:10,11;	demonstrates (1)	director (2)
contributes (1)	57:15;67:17	60:13,20;62:1	25:20	32:24;49:16
37:23				
	covers (2)	dangerous (1)	deniers (1)	directs (1)
contributing (1)	68:16;69:2	40:9	65:16	3:13
20:5	crazy (1)	dangerously (1)	<b>DEP</b> (3)	disagree (1)
contribution (1)	68:22	37:25	4:19;62:9,16	65:13
63:7	create (4)	date (2)	Department (3)	disconnect (1)
control (1)	33:4;38:13;45:12;	29:17;69:19	4:18;62:13;78:10	46:2
9:17	51:16	dating (1)	departments (1)	discuss (2)
controversial (1)	created (2)	6:18	4:2	35:3;68:19
65:12	31:19;57:23	daughter (1)	dependence (1)	discussed (1)
convenience (1)	creating (1)	44:10	19:14	69:3
81:2	38:21	day (3)	deployment (3)	discusses (2)
convenient (2)	creation (1)	45:24;81:1,9	12:16;56:11;57:9	61:21;69:10
75:14,16	3:14	daylight (1)	derive (1)	discussing (1)
convert (2)	creative (1)	45:16	47:11	59:24
3:17;22:11	64:16	days (3)	design (3)	discussions (1)
converted (1)			28:10;30:18;69:8	31:5
	creativity (1)	31:21;44:9;45:8		
21:11	67:7	DCP (1)	designed (3)	diseases (2)
Cooper (3)	credit (1)	79:25	9:5;30:12;51:2	20:25;37:12
7:11,12,24	52:10	death (1)	desperately (1)	dismayed (1)
cooperation (1)	Creek (2)	39:15	18:25	26:5
23:12	28:13;48:25	decade (1)	despite (1)	disproportionate (3)
Cooper's (1)	crisis (1)	74:2	10:1	33:3,3;34:13
9:25	18:22	decades (1)	detailed (1)	disproportionately (1)
copies (1)	critical (1)	62:21	49:20	24:15
69:23	24:13	decided (1)	determination (1)	distributed (3)
corporate (1)	critically (1)	58:25	67:11	29:7,10;30:4
69:6	23:23	decision-making (1)	develop (2)	distribution (7)
corporations (1)	criticism (1)	24:2	3:17;24:22	29:8,15;35:24;43:5;
24:22	62:4	deck (1)	developed (1)	73:15,17;79:18
cost (9)	CRONHEIM (2)	14:23	38:24	district (2)
12:15;16:4;45:6,21;	42:22,24	dedicated (1)	developer's (1)	8:6;53:20
46:3;51:4;53:6;56:4,	crowded (1)	19:4	57:6	districts (5)
15	37:15	DeDOMENICO (7)	developing (1)	12:14,22,24;13:2;
	crucial (2)		36:17	23:7
costly (1)	, ,	71:3,4,15,24;72:6,9,		
57:2	14:5,7	18	<b>Development (9)</b>	diverse (1)
costs (11)	cup (2)	D-e-D-O-M-E-N-I-C-O (1)	4:21;6:23;7:15;	6:16
16:4,4,5;50:20,21;	44:13;75:19	72:18	24:5,11;41:12;51:10,	divest (1)
53:8;56:2;57:1;73:18,	current (5)	defined (2)	15;57:21	41:19
20,22	19:15;34:16;41:10;	19:23;22:9	Diane (1)	divided (2)
-	1			1

		T	T	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
47:25;48:8	earth (4)	either (2)	emphasis (1)	engineering (3)
divine (1)	39:25;40:24;41:3;	65:3;79:24	10:10	28:10;29:5;31:9
40:24	42:8	elderly (1)	emphasize (3)	enough (1)
dock (2)	easily (1)	20:22	5:12;49:23;64:2	8:18
73:18,20	48:14	elders (1)	employees (2)	ensure (11)
doctor (1)	east (1)	37:11	8:23;70:9	8:9;12:25;18:20;
19:2	47:22	electric (29)	<b>empower (1)</b> 23:11	21:10;22:19;23:18;
documented (2) 60:23,23	easy (1) 64:19	7:1;8:2,21,23; 11:18,20;12:4,12,15,	EMP's (1)	24:1;25:9;39:3,8,11 <b>ensuring (1)</b>
dollar (4)	eco (1)	20;22:16,19;27:8,10;	36:13	34:3
47:9;73:13,16,18	21:8	29:9;31:19,24,25;	enable (2)	enter (1)
dollars (2)	ecological (1)	32:1,1,5;37:1,7;	22:1,22	39:21
26:7;79:12	69:11	38:18;39:4,8,12;45:2;	enabled (1)	entering (1)
done (4)	E-commerce (2)	80:21	56:13	40:14
10:4,4;68:11,17	74:2,4	electrical (1)	enabling (2)	enthusiasm (1)
double (1)	economic (11)	11:10	24:23;26:19	18:16
74:5	6:22;16:4;19:13;	electrically (1)	enacted (1)	entities (3)
doubt (1)	23:18,20;26:7;31:4;	11:25	21:20	23:6,13,25
25:11	51:9,15;52:25;57:21	electrification (9)	encourage (3)	entity (1)
down (4)	economies (1)	13:6,22;14:4;22:2,	24:3,17;39:20	46:18
27:15;30:20;79:16,	50:11	12;23:8;26:20;30:6;	encouraging (1)	entrepreneurship (1)
20	economy (11)	39:13	68:20	69:5
Downpours (1)	24:19;26:23;29:22;	Electrified (1)	end (7)	environment (5)
38:1 <b>downtown (1)</b>	52:2;60:22,25;68:3,6, 12;69:9,12	38:12 <b>electrify (1)</b>	6:3;29:11;30:15; 42:1;59:19;62:9;70:2	11:21;50:9;55:13; 68:6;69:12
51:12	economy-wide (1)	38:25	42.1,39.19,02.9,70.2 endeavor (1)	environmental (20)
dozen (1)	68:8	electrifying (1)	8:10	11:15;13:25;14:14;
76:1	E-corps (1)	39:5	ended (1)	23:4;32:24;33:4,7,15,
draft (3)	69:4	electrons (1)	32:4	18,23,24;34:4,8;35:4;
4:8;54:1;81:7	ecosystem (1)	47:3	endorse (1)	36:8;38:15;41:17;
dramatically (3)	69:9	elements (2)	39:18	52:25;58:23;62:14
20:4,23;38:17	<b>EDA</b> (1)	53:23;56:24	energies' (1)	environmentally (1)
drinking (1)	4:18	eligible (2)	31:22	8:10
21:4	edge (1)	10:12;51:24	energized (1)	EPA (1)
Drive (2)	60:5	Elizabeth (2)	18:15	13:15
7:8;22:24	editors (1)	37:17;39:3	Energy (112)	equipment (4)
driven (1)	25:18	else (4)	3:6,11,14,18,18,23;	12:19;13:22;39:1,7
12:1	educating (1)	42:19;43:16;49:5;	6:21;7:4;8:1;9:6,8,11,	equity (1)
<b>driver (1)</b> 23:18	13:5 educational (3)	62:23 else's (1)	12,17,18,23;10:5,9, 11,12,17,21,23,24;	57:2 equivalent (2)
25:18 drone (1)	22:23;23:10;24:5	56:5	11:8,12,16,19;14:8,	100 45 40
77:16	effective (1)	elsewhere (2)	10;15:14,17;16:8,11,	12:8;45:19 especially (1)
drones (1)	24:6	67:2;69:22	15,25;17:5,7;18:7,10,	62:21
77:9	effectively (1)	embrace (2)	19;19:15,23;21:22,	Essentially (2)
drop (3)	23:14	23:17;24:4	24;22:13;23:14,16;	34:18;47:8
61:16;74:18;79:21	effects (6)	embracing (1)	24:4,18;25:1,4,5;	estate (1)
droughts (1)	13:12;20:11,13;	18:17	26:19,23;27:12;29:9;	57:5
60:13	25:23;26:2;37:24	emergency (6)	30:23;31:14;32:10;	estimated (3)
drove (1)	efficiency (18)	46:9,10,21,22;	33:12,16,20;34:5,6,9,	11:25;55:18;56:18
75:24	8:1;9:6,11,12,24;	47:13;79:6	14,16,20,22,25;35:17;	ethical (1)
due (1)	10:9,13,17,25;11:9;	emission (1)	36:1,17;39:19;40:14,	19:12
3:15	25:4;29:9;34:5;50:16;	68:22	16,23;41:6,24;42:1,6,	even (8)
during (4)	55:14,20;58:3;68:9	emissions (15)	24;43:1;47:12;49:17,	16:1;20:9;25:5;
37:25;38:3;45:16;	efficient (5)	11:22;12:7,7;13:10,	18;50:9,15,16,18;	63:22,25;65:16;77:6;
46:20	10:25;11:1;55:15;	24;14:3;20:4;22:5,11;	51:3,8;53:11;54:8;	78:5
${f E}$	76:12,17	55:17;61:15;65:18, 21;67:25;68:1	55:11,13,19,20;57:10;	evening (2) 32:22;42:22
		21:07:25:08:1	58:3;59:5,8;61:18,20;	*
E	effort (1)		71.14.72.5 22.76.4	orrowt (E)
	30:8	EMP (17)	71:14;72:5,23;76:4,	event (5)
earlier (6)	30:8 eggs (1)	<b>EMP (17)</b> 21:9,14,22,25;	11;77:10;80:19	37:1,2,5;46:13;
earlier (6) 7:22;18:8;49:22;	30:8 eggs (1) 76:1	EMP (17) 21:9,14,22,25; 22:18,25;23:11;	11;77:10;80:19 energy-intensive (1)	37:1,2,5;46:13; 67:18
earlier (6) 7:22;18:8;49:22; 60:10,17;68:16	30:8 eggs (1) 76:1 eight (5)	EMP (17) 21:9,14,22,25; 22:18,25;23:11; 24:17;25:8;26:14,24;	11;77:10;80:19 energy-intensive (1) 77:18	37:1,2,5;46:13; 67:18 everybody (1)
earlier (6) 7:22;18:8;49:22;	30:8 eggs (1) 76:1	EMP (17) 21:9,14,22,25; 22:18,25;23:11;	11;77:10;80:19 energy-intensive (1)	37:1,2,5;46:13; 67:18

	T			- Cetober 10, 201
77:20	express (1)	feel (3)	Florida (1)	75:5,10
everyone (5)	36:16	70:15,19,21	44:21	fruit (1)
3:2;5:22;43:21;	extend (4)	feet (3)	flourishing (2)	73:7
53:5;58:6	11:13;13:1;43:7;	7:18;48:13,14	36:21;40:1	fuel (13)
everyone's (1)	61:6	Ferry (1)	flow (2)	16:13;19:14,25;
5:25	extending (2)	9:25	51:1;55:23	20:10;27:21;41:20,
evidence (1)	18:13;43:25	few (6)	fly (2)	21;45:11;46:12,13,
25:12	extension (1)	44:22;54:16;58:2;	77:12,17	16;64:8;76:18
evil (1)	19:19	61:1;69:22;71:10	flying (1)	fueled (2)
66:11	extensive (1)	figure (4)	77:22	12:1,3
exact (1)	40:4	30:25;65:22;66:1;	focus (3)	full (3)
72:21		67:15	19:21;39:5;61:3	6:2;58:7;75:7
	extraordinary (1)			
example (2)	49:23	<b>filed</b> (1)	focused (1)	full-blown (1)
10:11;37:13	extreme (1)	10:5	16:20	80:21
exceed (2)	26:2	filing (3)	focuses (1)	fully (3)
26:1;56:1	Exxon (2)	10:7;11:16;12:11	33:7	3:17;52:17;76:23
exceeds (1)	47:7,8	final (3)	folks (3)	fundamentally (1)
56:20	_	3:4;4:22;63:7	4:17;5:24;15:5	61:8
exclusive (1)	F	finally (3)	following (2)	funding (3)
65:7		4:12;35:2;63:10	9:9;28:9	8:1,13;9:23
excuse (2)	faced (1)	finance (1)	food (3)	funds (1)
17:10;70:18	19:12	54:14	9:24;15:1,3	41:19
Executive (5)	facilitate (1)	financial (1)	forced (1)	Funny (1)
3:13,24;33:18,22;	57:13	12:18	78:11	78:9
49:15	facility (1)	financing (9)	formal (1)	Furman (5)
exemplify (1)	46:11	49:18;50:12;52:5,	58:19	32:17;42:15;43:23,
40:22	factor (1)	21;54:10,11;57:3,14;	former (1)	24;44:6
exercise (1)	52:12	58:3	27:8	further (7)
56:14	fail (1)	find (1)	forth (1)	14:12,14;25:25;
exhaust (2)	40:7	72:20	21:18	35:4,8;63:19;68:7
13:10,16	failure (1)	finished (1)	forum (1)	Furthermore (1)
exist (1)	46:14	72:13	60:7	21:13
34:8	faith (6)	Fiordaliso (1)	forums (3)	future (12)
existing (2)	36:14,24;37:4,5;	3:8	31:4;63:21;68:5	10:5;11:16;29:13;
		fire (1)	forward (4)	30:25;31:5;32:10;
53:22;56:19	41:8,8			
exists (1)	familiar (1)	80:4	15:12;39:24;40:23;	36:21;39:22;40:20;
34:16	50:5	firmly (1)	43:11	41:4;43:12;55:7
Expansion (2)	families (2)	41:9	fossil (7)	future's (1)
7:13;10:8	40:20;42:5	first (11)	16:13;19:14,25;	10:11
expected (1)	family (1)	6:4;8:4;18:2,23;	27:25;41:20,21;64:8	
57:4	21:7	31:20;33:21;50:2;	fought (1)	G
expecting (2)	fan (1)	52:4;62:24;73:13;	70:9	
36:20;49:25	29:22	74:15	found (2)	gallon (3)
expediential (1)	far (3)	Fiscally (1)	60:12;70:5	75:16;76:2,18
24:25	37:19;64:20;66:4	55:24	foundation (1)	galvanize (1)
expense (1)	farms (2)	<b>Fish</b> (1)	9:22	40:21
58:1	28:23;31:13	71:4	four (2)	garage (2)
expensive (2)	fast (1)	<b>five (3)</b>	35:12;77:15	7:8;78:6
28:17;74:21	16:15	5:2;8:21;35:13	fragile (1)	Garden (2)
experience (1)	faster (1)	five-plug (1)	21:7	42:3;53:24
62:6	44:16	8:21	free (4)	gas (20)
experiences (1)	fastest (1)	flag (1)	10:16;70:16,19,22	7:1,17,21;8:2,6;
62:20	56:22	59:13	freight (5)	11:22;16:18;19:25;
explicit (1)	fast-moving (2)	flip (1)	73:3,4,5;76:11,16	20:1,2,9,17;21:16;
67:24	73:14;75:8	78:19	frequently (1)	27:21;30:1,3;32:5;
explosion (1)	father (2)	flood (1)	51:14	41:13;61:15;67:25
78:21	19:3;26:4	38:5	Friday (3)	gas-fired (4)
explosions (1) 21:2	features (1)	flooding (1)	4:25;35:6;59:20	20:18;21:11;28:15,
/ 1 * /	50:3	38:3	friend (2)	21
	0 1 1 (4)		44:9,16	gasoline (1)
exposed (1)	federal (3)	floods (1)	*	
<b>exposed (1)</b> 38:4	10:15;22:7;69:14	60:13	friendly (1)	12:3
exposed (1)		, ,	*	

-				October 10, 2018
gears (1)	67:5;70:6;80:16	guys (2)	13:22	35:19,20;42:12;
63:9	goods (3)	59:1;70:10	heavy-duty (1)	43:13;49:3;59:12,20;
gender (1)	73:14;75:9;80:24	33.1,70.10	13:7	70:1,14;71:19,20;
31:15	gotcha (1)	H	held (4)	72:1
General (1)	48:12		4:3;5:2;37:1,6	horse (2)
6:8	government (7)	hand (1)	4.5,5.2,57.1,0 helicopter (2)	76:8,25
generate (2)	44:4;56:15;58:22;	26:11	77:11,13	horsepower (8)
8:17;10:21	69:15,17,22;70:9	handle (1)	helicopters (1)	76:7,13,22,24;77:2,
generated (1)	governor (13)	77:20	77:22	3,12,15
25:17	3:12;4:14;18:9,23;	handling (1)	Hello (1)	Hospital (2)
generating (1)	22:18;24:19;26:13;	39:1	14:25	7:24;9:11
29:23	33:17,25;39:19;47:6,	hanging (1)	help (11)	hospitals (2)
generation (5)	7;53:18	70:4	5:16;9:5;11:21;	9:1;51:23
20:14;25:16;26:9;	<b>Grace (10)</b>	Hansen (1)	13:8,23;22:19;38:13;	hot (1)
46:22;64:23	3:2;35:11;36:2;	80:9	71:24;80:18;81:5,7	44:13
generator (2)	49:4,7;59:3,3;71:5,6;	happen (1)	helpers (1)	hour (3)
79:9;80:4	81:11	68:24	78:6	77:4;79:12;80:24
generators (2)	gradually (1)	happened (1)	hey (1)	hours (4)
46:10;78:19	74:11	42:10	79:21	8:18;44:24;45:16;
geographically (2)	grant (3)	Happy (3)	Hi (1)	74:20
32:2,8	12:19;23:9;24:8	49:12;58:8;80:18	43:24	house (3)
George (2)	grants (1)	hard (1)	high (3)	44:10,15;74:19
27:4,5	12:14	50:20	37:25;69:16;79:15	household (2)
get-go (1)	great (6)	hardest (1)	higher (2)	10:14;80:25
55:24	16:9;27:21;57:7;	38:10	37:19;61:22	households (1)
gets (1)	63:10;66:21;73:5	hard-hitting (1)	Highlands (3)	39:11
77:19	greater (1)	40:12	44:9,17,18	huge (1)
GIBSON (24)	36:25	hardly (1)	highlights (1)	65:17
6:4;14:20;17:15;	greatest (1)	27:25	5:24	Human (1)
27:2;32:15;35:9,16,	13:17	Harlin (1)	highly (1)	4:19
17;36:3;42:13;43:14,	Green (10)	80:8	56:7	humans (1)
20;49:12;58:11,15;	36:7,12;38:14;		highway (1)	13:18
		harmful (1)		
59:6,7;70:15,19,23;	40:17;41:8;56:24;	14:3	48:16	humility (1)
71:1,13,13,17	68:2,4,12;69:8	Hay (2)	highways (3)	66:25
gift (1)	greenhouse (5)	27:4,5	37:14;47:25;48:8	hundred (1)
40:24	11:22;20:1;41:13;	hazard (1)	historic (2)	6:19
glad (4)	61:15;67:25	47:18	19:16;60:24	hundreds (1)
5:11;58:25;71:9;	grew (1)	head (1)	historical (1)	76:5
81:8	32:7	27:7	57:8	HVAC (1)
global (7)	grid (11)	heading (1)	history (1)	11:1
16:2;21:18;22:9;	27:14;30:6;31:16,	71:20	6:17	hydro (1)
24:25;25:21;60:11;	24;32:12;35:23;	headquarters (3)	hit (3)	31:15
63:5	45:13,14;46:1;72:3;	7:5,7;8:15	5:23;38:11;44:8	hydrogen (2)
Gloucester (1)	79:18	Health (12)	hold (1)	29:22,24
15:3	grocery (3)	4:19;7:10;11:5;	79:11	hypothesis (1)
<b>GNP</b> (1)	75:8,11;81:2	13:12,17;16:5;17:4,	holding (4)	31:11
62:1	ground (2)	11;19:5;20:19;26:6;	5:5;18:5;43:1,2	
goal (9)	8:11;68:17	36:21	Holtec (2)	I
15:13,16;18:9;	group (10)	healthier (1)	7:6;8:15	
22:15;29:2;53:1;	4:1;5:4;11:25;15:4,	38:14	home (1)	ideas (2)
61:18,23;67:25	4,8;35:13,18,21;71:10	healthy (1)	75:23	44:3;64:16
goals (14)	groups (6)	23:1	homes (2)	identify (2)
3:19;6:20;9:8;	4:7,17;5:7;19:6;	hear (1)	8:19;38:6	21:14;64:8
	51:15;58:23	64:17		ignored (1)
14:11;15:25;16:20;			hope (7)	65:15
19:1;21:18;22:9;	growing (2)	heard (2)	30:7;35:6;43:6;	
33:16,25;35:4;63:16;	18:22;23:16	60:9;68:4	49:1;54:2;70:5,10	immediate (3)
68:22	growth (5)	hearings (4)	hopeful (1)	20:3,19;56:4
goes (1)	23:21;24:25;25:9;	18:6,13;36:13;43:3	26:10	impact (3)
60:14	50:10;74:8	heat (1)	hopefully (1)	43:8;52:2;57:7
Good (13)	guess (1)	37:25	5:8	impacted (1)
3:1;6:6;17:23;	47:19	heavily (1)	hoping (3)	24:16
32:22;36:5;42:22,23;	guessing (1)	38:23	34:14,23;35:14	impacts (6)
45:18;46:18;56:2;	46:2	heavy (1)	HORNSBY (12)	15:20;20:14;26:6;

-	1		1	, , , , , , , , , , , , , , , , , , ,
33:3,4;34:13	64:1;66:8	institutional (1)	investing (2)	4:23;5:19
imperative (1)	increase (2)	51:21	55:4;56:19	joins (1)
19:13	9:6;23:1	institutions (1)	investment (7)	49:5
implement (2)	increased (5)	24:21	6:25;23:1;24:12;	Jonathan (7)
23:14;51:25	12:4;20:23;21:16;	instrumental (1)	45:22;56:7;57:22;	32:19;42:15;49:9,
implementation (1)	25:21;53:11	8:7	64:8	14,15;58:13,16
53:24	increasing (3)	insurance (1)	investments (3)	JOSEPH (1)
implementing (1)	16:17;18:12;74:11	46:19	34:4;41:16,19	6:6
26:17	incremental (1)	integrate (1)	investor (1)	July (1)
implication (1)	61:10	31:25	56:6	79:15
61:5	Indeed (1)	integrated (1)	involved (3)	jump (4)
important (9)	64:21	27:12	51:17;58:6;62:7	11:17;51:16;68:14;
11:12;18:5;22:5;	indicates (2)	integration (3)	involvement (1)	72:16
42:2;52:11;55:1,9;	25:14,25	28:4;29:5;33:14	41:21	June (2)
63:23;64:11	individual (1)	intended (1)	involving (1)	3:15;4:12
Importantly (2)	54:19	75:21	68:10	justice (15)
21:9;71:22	individuals (1) 33:1	intense (1) 60:13	IPCC (2) 25:13;60:10	11:15;13:25;14:15;
impossible (1) 66:7	industrial (1)	intensity (1)	*	23:4;32:25;33:7,15,
impression (1)	51:21	76:4	<b>Island (1)</b> 44:15	19,23,25;34:5,9;35:4; 38:15;41:17
67:17	industry (4)	intercity (1)	issuance (1)	justly (1)
improve (4)	11:18;31:19;41:20;	40:19	20:6	19:13
9:6;11:21;13:9;	73:10	interconnected (1)	issue (7)	17.13
14:15	inform (1)	31:16	14:1;27:18;28:10,	K
improvement (2)	5:16	interdepartmental (1)	20,24;60:8;62:15	
56:16;73:8	informal (1)	4:16	issued (1)	Kean (1)
improvements (14)	56:21	interest (3)	68:15	62:9
49:19;50:19,25;	information (3)	30:13;53:4;66:24	issues (6)	keep (3)
52:17,24;53:5,9;54:9,	63:23;73:2;81:6	interested (4)	11:7;14:8;28:5;	5:22;40:7;80:11
15,20;55:5;57:23;	infrastructure (14)	6:1;42:19;43:16;	31:8;75:6;80:13	keeper (1)
58:4,5	12:17;16:14;20:17;	62:13		71:22
inaudible (2)	21:17;23:2;25:5;	interesting (1)	J	Ken (3)
55:24;73:13	34:17;38:18;41:22,	78:8		35:25;72:4,9
incentive (1)	23;43:9;45:3;47:13;	interface (1)	Jersey (56)	KENNETH (2)
57:9	71:25	32:12	8:25;11:18;12:1,9;	35:25;72:4
incentives (8)	infuse (1)	interfaith (1)	13:10,18;15:2,12,13;	key (6)
12:18;22:24;23:9;	39:25	36:7	16:7;17:25;18:1,14,	24:18;25:15;50:3;
24:8,14;56:11;57:11,	inhibit (1)	intergenerational (1)	18,21;19:11;21:20;	52:12;53:23;54:17
16	65:1	67:11	22:6;23:5,23;25:6;	kicked (1)
incentivized (1)	in-home (1)	intergovernmental (3)	26:16;27:24;31:23;	3:25
23:7	10:23	3:25;15:22;20:7	32:24;36:9,10,18;	kicking (1)
incentivizing (1) 24:12	initial (1) 3:5	intermittency (1) 29:25	39:6,11,23;41:7;	47:3 <b>kill (1)</b>
include (5)	initiative (2)	International (3)	42:11,24;45:2,25; 46:11;47:11,16;	78:18
11:6;16:12;19:24;	12:24;41:14	7:6;8:15;25:1	49:16,24;53:21;	kilowatt (1)
33:24;57:19	initiatives (3)	into (9)	54:14;55:8;56:22;	80:24
included (1)	9:24;62:17;63:14	4:5;36:20;39:21;	57:10;60:8;62:8;63:1,	kilowatts (2)
34:25	innovation (4)	40:14;41:13;42:6;	3,8,10;68:10,18,20;	48:20;80:20
includes (2)	23:17;24:19;25:8;	53:18;54:3;78:3	69:4	kind (3)
39:5,9	67:8	intragovernmental (1)	Jerseyans (1)	27:13;53:13;81:5
including (16)	innovative (1)	40:2	21:6	kinds (1)
7:25;9:9;13:8,12;	49:18	introduce (2)	Jersey's (3)	52:24
19:7;21:6;22:21;23:2;	input (1)	35:14;71:11	24:20;61:17;72:23	knowledge (1)
24:5,13;25:19;57:19;	4:11	invariably (1)	job (1)	74:22
61:25;62:8;63:15;	inside (1)	64:1	34:19	known (1)
69:17	62:12	invention (1)	<b>jobs</b> (7)	59:2
income (4)	install (1)	53:15	38:14,21;40:17;	knows (1)
10:12,14,20;53:12	45:4	invest (1)	51:9,17;57:23;68:4	76:17
incomes (1)	installation (5)	24:14	Jocelyn (3)	kV (1)
22.22	(- )		1	
22:22	10:17,24;11:5,8;	invested (2)	14:20,25;15:1	78:13
incompatible (1)	10:17,24;11:5,8; 38:17	9:2;52:13	Joe (3)	
incompatible (1) 20:10	10:17,24;11:5,8; 38:17 instead (1)	9:2;52:13 investigating (1)	<b>Joe (3)</b> 3:8;6:5,7	78:13 <b>L</b>
incompatible (1)	10:17,24;11:5,8; 38:17	9:2;52:13	Joe (3)	

		1	I	October 10, 2016
Labor (1)	17:1;67:16	65:3	22:21	77:14
4:20	leaves (2)	little (4)	lower (1)	market (5)
Lady (1)	17:10;73:7	48:4,5;61:3;75:10	60:17	28:8;34:22;35:1;
18:24	left (2)			56:10,21
		live (5)	low-hanging (1) 73:6	*
landmark (1)	31:23;34:22	44:2,7,18;78:25,25		marry (1)
21:21	legacy (1)	load (3)	low-income (5)	29:14
larger (2)	34:15	28:2,9,15	9:16;10:10,22;13:1;	Master (25)
43:7;64:14	legislation (8)	loaded (1)	17:2	3:6,11,15,23;6:21;
largest (1)	21:21;38:25;39:4,9;	76:23	luck (1)	9:8;11:19;14:8;18:7;
8:16	49:25;53:2,21;56:13	loading (3)	70:6	19:15;30:23;33:12,
Larry (4)	legislature (5)	73:18,19;75:3	lung (1)	16,20;34:14,20;
32:17;42:15;43:23,	22:18;53:13;54:1,2;	loaf (1)	13:13	36:18;39:19;40:23;
24	64:6	76:1	Lutheran (1)	42:1;43:1;44:1;59:5;
last (5)	lenders (1)	loan (3)	19:8	71:7;72:23
43:4;60:6;73:8;	54:10	8:12,13;9:21	Lyle (4)	match (1)
74:16,21	less (4)	loans (1)	14:23,24;17:15;	27:19
Lastly (1)	10:14;48:5;52:11;	54:24	42:13	materials (2)
9:22	75:19	local (9)		39:24;67:17
last-second (1)	Lestini (3)	15:4;27:19;29:15;	$\mathbf{M}$	Matt (3)
30:21	17:22,23,24	31:17;50:11;51:9,16,		17:18;42:14;58:18
late (2)	level (6)	17;58:22	machine (1)	matter (5)
49:25;72:11	10:16;27:14,15;	locally (1)	28:11	13:19;39:14;67:12;
later (9)	29:6;31:9;63:6	30:5	magnitudes (1)	78:7;81:4
27:6;28:22;32:7;	levels (5)	locations (1)	61:21	Matthew (8)
54:3,5;61:3,4;63:1;	25:23;60:16;61:11,	6:15	main (4)	19:8;58:18;59:9,14,
74:20	14:69:17	Locust (1)	7:18;16:21;48:24;	22;70:2,18,21
latest (2)	leveraging (1)	7:13	78:13	May (13)
21:24;60:10	24:20	long (6)	mainly (1)	3:11,24;11:6;37:2;
laughed (1)	levitate (1)	6:17;47:24,25;	18:14	47:14;48:4,5;50:4;
80:6	77:13	58:24;80:18;81:9	maintained (1)	52:23;56:25;57:7;
Lauren (3)	libraries (1)	longer-term (1)	70:8	60:9;61:24
32:21,22,23	54:16	66:23	major (5)	maybe (1)
law (3)	life (10)			31:5
14:10;53:18;54:3	14:15;19:4;21:4;	long-term (2) 52:25;54:9	37:14;52:22;54:20; 55:13;61:5	McFarland (2)
Lawrence (1)	37:8;39:14,18;42:8;	long-time (1)		17:20;42:14
44:6	50:24;58:4;77:21	58:21	majority (1) 53:14	McGreevey (1)
lawsuit (1)		look (10)		62:10
	lifestyles (1)	` ,	make-ready (1) 12:17	
47:6	42:7 <b>lifetimes (1)</b>	29:13;30:8,9,24;		mean (4)
<b>lay (1)</b> 19:7	26:3	32:9,11;39:21;43:11; 73:2;76:7	makes (2)	26:1;29:20;66:10; 76:10
			27:21;31:7	means (9)
lays (1) 55:6	lighting (1) 11:1	looked (1) 29:4	making (7)	22:25;47:19;49:18;
		looking (6)	16:9;18:18;30:10;	
lead (2) 11:11;41:14	likely (4) 54:4;60:6;64:22;	9 ( )	52:24;55:4;66:16;	51:19;52:9,14;61:10,
· ·		5:9,10;27:12,16;	76:2	25;66:11
leader (5)	67:19	28:22;80:17	malls (1)	Meanwhile (1)
16:7;18:18;19:7;	likewise (1)	lose (2)	51:13	56:5
22:6;39:17	75:5 <b>limited (1)</b>	44:12;79:12 <b>losers (1)</b>	management (1) 29:8	measures (5)
leaders (4)	10:19	31:6		10:25;11:5,9;38:19; 50:17
36:14,24;38:16; 39:16			manager (1)	mechanism (3)
	line (5)	losses (1) 77:6	80:9	` '
leadership (4)	69:8;79:16,17,18,		Manalapan (1)	50:13;56:9;57:13
25:7;26:17;33:8;	25	lost (1)	44:7	median (4)
40:22	linear (3)	44:10	Mannington (1)	48:10,16,18,22
leading (1)	48:10,18,20	lot (7)	72:12	medical (1)
18:20	lines (4)	28:3,5;30:2;77:19;	manufacture (1)	38:9
learners (1)	28:25;43:6,8;64:4	78:2;80:12;81:3	24:23	medications (1)
67:12	linked (1)	Lots (1)	Many (10)	46:20
lease (1)	13:11	74:5	34:21;37:4,9,11;	medium- (1)
51:7	list (2)	Louise (1)	51:12,24;65:13,13;	13:7
least (6)	5:21;50:2	44:16	75:20,22	meet (5)
3:4;12:2;22:16;	literally (2)	love (1)	map (1)	6:14;20:3;22:8;
67:1,4;74:14	55:12;56:15	30:23	23:15	35:3;72:10
leave (2)	litigation (1)	low- (1)	margin (1)	meeting (7)
	•	*		•

			T	7
3:4;4:23;5:5;6:12;	21:5;76:5	6:16,18;9:2;10:3,4;		62:8,25;63:3,8,10;
14:11;15:6;72:19	mindset (2)	27:11,15;28:17;	N	68:10,17,20;69:3;
meetings (5)	65:1,1	29:19;31:6;38:8;40:1,	11	72:14,23;74:6
4:4;5:3;6:13;15:10;	mindsets (1)	21;45:7;48:5;51:3,5,	name (11)	Newark (6)
43:2	66:22	6,6;53:12;54:6;55:15,	3:2;6:7;15:1;17:24;	6:15;36:25;37:2,13,
megawatt (2)	mine (3)	15,22;57:2;59:10;	32:23;36:6;44:6;	17;39:3
8:18;32:6	44:9;72:10;77:23	62:2,19;67:3,7;70:13;	49:14;71:2,3,18	Newell (3)
megawatts (5)	mining (1)	71:21;76:11,15;77:10	narrow (1)	36:4,5,6
28:6,14;41:11;	77:23	morning (2)	64:20	news (1)
48:21,23	minute (1)	72:12;74:18	nation (1)	56:2
member (1)	68:18	Morristown (1)	25:1	next (10)
36:9	minutes (3)	18:2	nationwide (1)	3:16;4:12;20:12;
membership (1)	5:23;43:18;59:12	mortality (1)	75:12	55:8;73:16;79:16,17,
33:8	missed (4)	13:14	natural (7)	20,22,25
mention (5)	63:2;68:14;71:8;	most (12)	16:18;19:25;20:2,9,	nice (1)
54:16;61:2;63:17;	77:24	13:4;21:7;23:13;	17;21:16;27:21	72:9
64:11;66:13	missing (3)	38:23;51:24;53:16;	naturally (1)	night (1)
mentioned (5)	31:3;53:23;64:15	55:23;67:19;68:10;	67:9	45:24
4:4,15,22;63:5;	mission (1)	73:7;74:21;75:18	nature (1)	nine (1)
68:25	33:2	mostly (3)	69:14	74:20
mentions (1)	Missouri (1)	35:23;43:9;61:3	nearly (2)	Ninja (1)
60:19	74:15	motor (1)	68:8,9	77:9
merely (1)	mitigate (1)	76:8	necessarily (1)	non-ambitious (1)
22:10	62:2	mount (1)	45:13	62:17
message (1)	mitigation (2)	48:14		non-profit (1)
16:21	34:12,12	move (4)	necessary (4)	11:24
met (1)	mobile (1)	40:22;42:6;74:1;	8:1;15:19;66:25;	North (3)
71:25	13:20	80:22	81:7	18:1;47:22;76:20
methane (1)	modeled (1)	movement (2)	need (23)	Northern (1)
17:9	67:1	73:3,6	11:13;18:25;20:3;	32:6
mezzanine (1)	models (1)	much (14)	28:7,8;31:8;37:21;	noted (3)
57:3	56:17	27:1;49:10;54:21;	46:1;54:19;59:10;	18:7;54:7;58:7
MICHAEL (11)	moderate-income (1)	59:11,15;61:10,22;	62:20;64:17,24;	notice (1)
35:22;42:12;43:13;	22:21	63:19;67:7;68:7,16;	65:10,17,19;67:1,3,7,	52:4
49:3;59:12,20;70:1,	Modern (2)	73:1;75:1;76:11	10;77:14;80:11,22	noticed (1)
14;71:19;72:1,8	35:23;72:3	much-extended (1)	needed (3)	63:20
micro (1)	Modernization (2)	68:12	13:4;31:12;45:17	noticing (1)
31:15	7:21;69:11	multi-family (4)	needs (3)	78:3
microgrid (1)	module (1)	9:12,13,15;51:23	7:4;29:4;46:19	nourishes (1)
31:17	48:23	mundane (1)	negative (1)	40:25
might (4)	modules (5)	60:5	13:12	nuclear (3)
27:22;52:16;60:3;	47:2;48:13,14,17,	municipal (2)	neglected (1)	21:10;29:22,23
68:17	19	8:8;31:24	51:14	number (9)
MIKE (6)	moisture (1)	municipalities (5)	neighborhoods (2)	4:2,3;18:12;19:6,
35:19,20,22;71:19;	11:9	23:5,13,25;24:4;	14:14;38:5	22;53:19;66:21;
72:2,2	mold (1)	56:14	net (2)	68:25;69:3
mile (10)	11:9		12:6;53:11	
12:1,3;48:18,20;	moment (1)	municipality (2) 54:13;57:25	new (76)	numerous (1) 13:11
			3:14;6:20,23;7:14;	
73:8;74:22;76:6,19,	42:8	Murphy (5)	8:25;9:8;11:18,19;	Nursing (1)
21;80:21	monetary (3) 22:23;23:8;24:8	18:23,24;26:13;	12:1,9;13:10,18;14:8,	7:5
miles (21)	, ,	34:1;63:12	9;15:2,13;16:7,10,13;	O
47:18,19,20,21,22,	money (6)	Murphy's (4)	17:25;18:18,20;	U
24,25;48:2,4,6,7,9,10, 12,15,21;74:20;	13:3;50:18;53:8; 55:16;56:5;73:25	18:9;24:19;33:17;	19:11;21:5,20;22:5;	ab access 4: a = (1)
1 / 13 / 1 / 1 / 1 / 1 / 1		39:19	23:5;24:20;25:6;	observations (1)
		(0)	0 < 1 < 0 = 0 + 0 0 0 1	59:16
75:25;76:18;77:4;	months (1)	must (8)	26:16;27:24;28:21;	1 (4)
75:25;76:18;77:4; 80:23	months (1) 38:1	22:6,10,25;25:8;	31:23;32:24;36:9,10,	observe (1)
75:25;76:18;77:4; 80:23 milk (2)	months (1) 38:1 Moorestown (3)	22:6,10,25;25:8; 40:12,20;41:5;63:19		75:2
75:25;76:18;77:4; 80:23 <b>milk (2)</b> 75:16;76:2	months (1) 38:1 Moorestown (3) 17:25;18:1;19:9	22:6,10,25;25:8; 40:12,20;41:5;63:19 <b>mutually (1)</b>	31:23;32:24;36:9,10,	75:2 <b>obvious (1)</b>
75:25;76:18;77:4; 80:23 milk (2) 75:16;76:2 million (13)	months (1) 38:1 Moorestown (3) 17:25;18:1;19:9 moral (1)	22:6,10,25;25:8; 40:12,20;41:5;63:19 <b>mutually (1)</b> 65:7	31:23;32:24;36:9,10, 18;39:6,11,23,24;	75:2 obvious (1) 68:5
75:25;76:18;77:4; 80:23 milk (2) 75:16;76:2 million (13) 6:25;7:25;9:3;12:6;	months (1) 38:1 Moorestown (3) 17:25;18:1;19:9 moral (1) 19:12	22:6,10,25;25:8; 40:12,20;41:5;63:19 mutually (1) 65:7 myself (1)	31:23;32:24;36:9,10, 18;39:6,11,23,24; 41:7;42:10,24;43:22;	75:2 obvious (1) 68:5 obviously (1)
75:25;76:18;77:4; 80:23 milk (2) 75:16;76:2 million (13) 6:25;7:25;9:3;12:6; 45:9,23;46:5,6,7;47:5,	months (1) 38:1 Moorestown (3) 17:25;18:1;19:9 moral (1) 19:12 moratorium (1)	22:6,10,25;25:8; 40:12,20;41:5;63:19 <b>mutually (1)</b> 65:7	31:23;32:24;36:9,10, 18;39:6,11,23,24; 41:7;42:10,24;43:22; 44:11;45:2,25;46:11; 47:11,16;49:16,24;	75:2 <b>obvious (1)</b> 68:5 <b>obviously (1)</b> 59:17
75:25;76:18;77:4; 80:23 milk (2) 75:16;76:2 million (13) 6:25;7:25;9:3;12:6;	months (1) 38:1 Moorestown (3) 17:25;18:1;19:9 moral (1) 19:12	22:6,10,25;25:8; 40:12,20;41:5;63:19 mutually (1) 65:7 myself (1)	31:23;32:24;36:9,10, 18;39:6,11,23,24; 41:7;42:10,24;43:22; 44:11;45:2,25;46:11;	75:2 obvious (1) 68:5 obviously (1)

-			1	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
occurred (1)	opening (1)	overcome (1)	18:11;19:22;20:20;	17:3
28:20	71:8	77:8	29:21;58:19;67:18	per (14)
Ocean (3)	operate (3)	overcomes (1)	particularly (3)	8:18;12:20;45:9,21,
27:16;76:12,19	28:1,2;45:15	52:22	11:14;12:24;23:22	22;46:3;48:18,20;
o'clock (1)	operating (1)	overflow (1)	particulate (1)	76:6,22,24;80:21,25;
72:15	53:11	38:1	13:19	81:1
October (2)	operation (2)	overview (1)	partner (1)	percent (21)
4:5;37:6	8:4;77:23	3:10	6:22	10:15;12:2;13:19;
off (12)	opinions (1)	own (1)	partnering (1)	15:14,17;18:10;
3:25;8:10;19:14;	44:3	19:10	14:12	21:21,23;29:3,21;
20:11;27:7;43:19;	opportunities (4)	owner (9)	Partners (1)	41:14;48:11;50:20;
45:14;49:6;54:21;	26:22;34:19;40:21;	52:6,8,10,15;53:3,	7:12	54:9;55:10,18,21;
55:1;70:25;74:18	50:6	10;54:25;57:17,25	partnership (4)	56:25;61:18;65:25;
offer (3)	opportunity (19)	owners (7)	6:18,19;9:25;10:2	74:3
11:20;35:2;64:16	6:10;14:17;15:9;	50:14,18;51:18;	passed (2)	performance (2)
offered (1)	16:8;23:19;25:10;	52:23;54:8;55:25;	53:17;62:21	57:8;76:21
74:25	26:25;32:13;33:13;	56:3	passenger (1)	perhaps (1)
offering (1)	34:24;35:3,7,12;37:3;	owning (1)	13:21	31:2
60:4	40:17;42:25;43:25;	52:20	passing (1)	period (1)
offers (1)	51:16;68:14	Oyster (2)	62:22	52:19
50:6	oppose (1)	28:13;48:25	past (1)	person (1)
office (3)	41:21	D	9:3	78:6
7:11;51:13,20	opposed (1)	P	Paterson (1)	perspective (1)
official (1)	30:12	D. CE (26)	37:6	62:5
69:20	optimized (1)	PACE (36)	path (6)	perspectives (1)
offline (1)	73:4	49:16,17,21,24,25;	15:14;16:10,15;	64:1
79:13	Order (11)	50:3,8,12,17,22;	19:17;21:23;26:16	petition (1)
offloaded (1)	3:13,24;15:19;	51:10,25;52:4,21;	paths (1)	36:24
46:14	16:14;22:8;33:4,13,	53:1,6,17,21;54:4,6,7,	64:20 DATTY (2)	petroleum (1)
offset (1) 62:2	18,22;61:1;63:3 <b>organization (2)</b>	18,23;55:7,11,20;	PATTY (2) 42:22,23	80:20 <b>ph</b> (1)
offshore (5)	33:6;36:8	56:3,13,22,23;57:4,7, 10,18,24;58:2	paves (1)	80:9
27:18;28:6,16;	organizations (3)	Pacific (2)	42:2	phase (6)
31:13;41:11	6:24;33:1;55:2	27:9;32:5	pay (4)	7:20;78:18,20;79:3,
often (3)	otherwise (2)	pack (1)	45:2;50:22;54:21;	8,8
51:8;66:9;68:4	13:3;55:2	75:20	74:13	phasing (1)
old (2)	out (25)	package (2)	paying (1)	63:2
7:18;27:24	4:10;5:6;15:23;	74:14;79:7	52:18	PhD (1)
Once (3)	16:16;30:24,25;32:2;	paid (2)	payload (3)	63:6
3:23;62:16;74:23	34:1,22;51:18;55:6;	52:18;53:9	76:9,15;77:5	Philadelphia (1)
one (42)	63:3;65:22;66:2,15;	pain (1)	payment (1)	32:1
5:7,17;7:12;11:24;	67:15,22,24;69:24;	62:2	46:19	philosophy (1)
12:9;19:22;27:17;	75:5,9,23;77:22;	panel (3)	payments (1)	69:10
28:4;29:11;31:23;	78:20;79:19	15:22;20:7;40:3	54:23	phones (1)
34:2;40:25;47:15,19;	outage (2)	paper (1)	pays (2)	44:13
56:22;58:2;59:10;	78:11;79:17	30:21	53:13;57:22	physician (1)
60:22;61:23;62:11,	outdoor (1)	parents (1)	Peace (2)	26:4
22;65:4,8,23;66:3,14,	13:20	44:17	36:7,12	pick-ups (1)
14,19;67:15,19,23;	outlines (1)	Paris (2)	peaking (2)	79:5
68:18;69:18;74:25;	15:23	64:13;69:1	27:22,25	picture (1)
75:3,9,19;76:13;	output (3)	parking (3)	penalties (1)	65:15
77:15;78:5,14;79:5	78:12,12;79:1	7:8;74:5;75:5	79:14	piece (1)
ongoing (4)	outside (1)	parks (1)	Pennsylvania (1)	30:14
6:22;56:1,2,4	80:7	51:13	53:16	pieces (2)
online (2)	outsourced (1)	parkway (2)	pension (1)	30:10,17
49:1;74:9	46:15	47:24;48:7	41:19	pillar (1)
only (6)	over (12)	part (10)	people (17)	24:18
31:23;33:6;52:18;	9:3;25:18,19;40:5;	5:13;18:21;47:15,	33:9;44:3,5,5,5,21,	pilot (1)
59:17;77:5;79:1	50:24;54:21;55:8;	15;65:14;66:10;67:4;	22;63:16;64:17;	9:14
onto (1)	58:4;63:22;68:8;	68:20;73:5;79:17	65:13,13;66:21;	ping (1)
78:13	73:11;79:7	participate (1)	73:10;74:2;75:17;	81:6
open (1)	overall (2)	12:23	78:19;80:23	pipe (1)
81:8	28:10;65:18	particular (6)	people-of-color (1)	64:4
·				

	I	I	I	October 10, 2016
pipeline (1)	11:23	prepping (1)	9:5,10;10:9;11:3;	PSE&G (7)
30:1	pollution (7)	80:11	23:9;24:9;34:6,10;	6:12,17,21;7:23;
pipelines (3)	20:17;37:12,22;		57:14	9:2;10:19;13:8
		presence (1) 60:2		9:2;10:19;15:8 PSE&G's (6)
16:17;21:3;28:12	38:7,21,23;39:2		prohibit (1)	` ,
pivotal (1)	pollution-related (1)	presented (2)	21:15	6:25;7:20;8:6,12,
18:18	20:24	49:21;63:24	project (4)	23;9:10
<b>PJM</b> (2)	Polsky (10)	President (2)	7:25;8:3,9;56:25	<b>PSEG</b> (7)
29:15;31:16	17:18;42:14;58:18,	3:7;69:18	projects (8)	6:5,8;8:20;9:22,25;
place (1)	19;59:9,14,22;70:2,	press (1)	7:2,9;21:15;24:15;	14:6,10
31:20	18,21	77:19	50:25;52:1;55:20,23	Public (24)
Plan (34)	populations (1)	prevent (1)	promise (1)	3:7;4:9,11,11;5:2,
3:6,11,15,16,23;	20:21	11:8	11:21	13;6:11,14;12:14;
4:13;6:21;9:8;11:20;	portion (1)	preventing (1)	promote (1)	16:5;17:4,11;18:3;
14:8;16:10,13;18:7;	59:18	52:23	39:4	19:5;20:19;22:3;26:6;
19:16;30:23;33:12,	ports (4)	previous (1)	promoting (1)	44:25;45:15;50:4;
16,20;34:14,20;36:18,	22:2;23:4;37:16;	36:13	13:6	53:4;56:16;57:18;
20;39:19,23;40:23;	39:2	price (2)	promotion (1)	60:7
42:1;43:2;44:1;59:5;	pose (1)	22:19;45:8	34:15	publishing (1)
71:7;72:24;80:10,11;	13:17	primarily (2)	properties (6)	62:24
81:8	positive (1)	17:2;45:16	50:1;51:22,24,25;	pumped (1)
	51:1	*	54:7;66:15	31:15
planet (1) 36:22	possibilities (1)	prioritization (1) 33:15		purchase (1)
			property (23)	
planned (2)	64:14	prioritizing (1)	21:4;49:16;50:14,	24:7
7:20;67:6	possible (3)	38:20	17;51:18;52:6,7,9,12,	purchases (3)
planner (1)	22:14;51:11;68:7	private (7)	14,17,20,23;53:3,10;	75:19,21;80:25
27:9	possibly (1)	19:10;23:12,25;	54:20,24,25;55:24;	purchasing (1)
planning (3)	25:6	24:21;53:3;54:10;	56:3,9;57:17,25	12:15
23:15;24:1;29:20	potency (1)	56:12	proposal (1)	pure (1)
plans (4)	20:1	privilege (1)	11:17	30:5
4:8,10;33:25;38:25	potential (6)	44:2	propose (1)	purpose (1)
plant (1)	21:1;50:8;55:7,11;	probably (3)	36:11	65:9
79:13	56:18;69:6	44:23;48:1;69:24	proposed (1)	pursue (2)
plants (4)	pounds (7)	problem (11)	12:19	23:7;40:12
20:19;21:11,12;	75:13,15,17;76:9;	14:5;44:19;66:5,6,	proposes (1)	put (10)
28:21	77:5,12,16	6,17,20;78:15;79:3,4;	12:13	4:10;5:5;16:10,14;
plate (1)	poured (1)	80:1	protect (1)	21:23;28:14;30:17;
48:25	78:2	problems (4)	42:8	36:20;62:3;74:17
play (1)	poverty (1)	13:13;26:11;78:7,8	protesting (1)	putting (1)
55:9	10:15	problems' (1)	64:4	4:8
pleasure (1)	<b>POWER (29)</b>	66:14	prototypes (1)	
72:10	3:1,2;8:18;9:7;	procedure (1)	74:10	Q
plenty (1)	24:7;27:19;29:16;	80:3	proud (2)	
75:17	35:11;36:2;41:3;44:8,	proceedings (1)	6:21;36:9	qualifies (1)
plus (1)	12,15;45:11,17,19,24;	81:16	prove (1)	66:20
53:19	46:14;49:4,7;56:15;	process (7)	57:7	qualifying (1)
pm (2)	59:3,3;68:21;71:5,6;	3:5,11,23;4:16;	provide (14)	10:19
4:25;81:16	79:15,23;81:11	5:16;7:9;58:6	6:16;7:3;8:20;	quality (2)
pockets (1)	powered (1)	processes (1)	10:16;11:4;12:13;	13:9;14:15
70:11	22:13	24:10	14:18;21:25;22:25;	quarter (1)
point (4)	precedent (1)	produced (1)	23:15;48:23;50:10;	8:4
27:17;28:13;41:4;	60:24	55:19	58:9;73:1	quarters (1)
42:10	predominantly (1)	producers (1)	provided (6)	76:14
points (2)	33:9	29:16	8:13,25;9:23;40:11;	quick (1)
19:22;28:15	preferable (1)	productively (1)	62:19;64:20	66:17
poised (1)	66:25	69:13	provides (3)	quickly (1)
25:7	pre-industrial (3)	profound (1)	9:14;50:19;57:12	22:14
	-	26:21		1
Policies (2)	16:2;25:23;60:16		providing (5)	quiet (1)
24:3;67:5	premature (1)	Program (17)	7:25;8:7;18:24;	70:11
policy (2)	13:14	7:21;8:12,24,24;	19:9;58:7	quite (2)
61:20;63:13	preparedness (1)	9:11,13,14,19,20,21;	provisions (1)	69:5;70:11
political (2)	47:14	10:6,16,21;12:5,25; 57:10;72:13	22:1 proximity (1)	R
20.12.20.14				
30:12;39:16	preponderance (1)	*		
30:12;39:16 pollutants (1)	25:12	programs (9)	37:14	- A

	1			October 10, 2018
radio (1)	9:19	6:8;21:14	7:19	respond (2)
72:13	rebates (1)	reinforcement (1)	replacing (1)	58:9;81:6
Rail (1)	39:9	7:16	27:24	response (11)
76:19	receives (1)	reinvest (1)	replenishes (1)	14:22;17:17,19,21;
railway (2)	41:15	13:4	41:1	21:19;22:10;32:18,
48:6,15	receiving (1)	related (2)	report (14)	20;42:16,21;69:20
raise (1)	56:6	37:12;63:14	15:21;20:8;25:13,	responsibilities (1)
20:19	recent (3)	relationships (1)	17,24;40:4,11;60:10,	69:7
range (2)	27:11;65:5;76:21	23:24	11;61:20;63:5;68:15;	responsibility (1)
10:24;25:4	recently (4)	release (1)	69:2,16	18:17
rapid (3)	7:2;10:5;53:16;	60:9	reports (1)	responsible (1)
22:1;26:19;28:21	63:22	released (1)	61:14	36:17
rarely (1)	Recipient (1)	40:3	re-powering (1)	restarted (1)
69:3	13:2	Reliable (2)	30:1	49:8
rate (1)	recognition (1)	35:21;71:21	represent (1)	restrained (1)
56:6	65:9	reliably (1)	56:25	32:8
ratepayers (2)	recognize (4)	58:3	representing (2)	result (2)
53:7;58:2	5:17;65:12;66:2,10	reliance (1)	15:3;36:7	37:17;51:5
	recognizing (1)	16:17		
rates (1) 20:23	66:3	reliant (1)	represents (1) 26:24	resulting (2) 12:5;23:20
	recommendation (1)	23:23		
rather (3)	68:2	rely (3)	require (2)	resupplies (1) 75:23
21:12;52:6;57:12	recommendations (4)	17:9;45:12,13	46:11;60:21	retail (3)
ratio (1) 75:3	` '		required (2) 24:24;61:7	51:20;73:17,22
ratios (1)	63:25;67:22;70:16, 20	relying (1) 46:23		Rethink (1)
77:17		remain (1)	requirements (2) 57:2;66:9	42:24
raw (1)	reconvene (1) 43:17	22:6	requires (3)	retired (2)
39:24	record (5)	re-make (1)	60:24;66:21,23	27:8;30:22
Rawlings (4)	5:14;43:19;49:6;	55:12	requiring (1)	retiring (1)
14:23,24;17:16;	70:25;72:17	remarks (4)	21:21	21:10
42:14	recruit (1)	5:22;36:11;70:6;	research (4)	retraining (1)
reach (3)	70:13	71:8	11:24;29:19;31:3;	24:12
22:20;61:6,23	reduce (4)	remediation (2)	40:6	retrofits (2)
read (3)	9:18;20:4;22:4;	11:10,11	researched (1)	50:23;55:14
5:15;36:23;70:22	65:20	remember (3)	31:8	return (1)
reading (1)	reducing (7)	42:9;71:18;72:7	residences (1)	56:7
6:1	11:22;13:9;22:11;	remove (3)	9:15	reveal (1)
ready (4)	38:21;57:1;59:8;	12:5;33:2;34:7	resident (1)	64:25
14:10;72:25;74:12;	71:14	removes (2)	14:16	revenue (1)
79:10	Reduction (2)	50:13;57:16	Residential (5)	79:13
real (3)	35:18;57:19	removing (1)	7:12;9:12;10:12;	revenues (1)
21:1;28:24;57:5	reductions (2)	12:8	54:4,6	41:15
reality (2)	24:9;66:1	renew (1)	residents (3)	reverse (1)
26:8,14	re-entry (1)	51:11	11:14;14:2;15:11	31:18
realize (1)	41:12	renewable (15)	resiliency (4)	review (1)
65:6	references (1)	19:24;21:22,24;	49:19;50:16;54:8;	25:18
realized (1)	25:19	22:13;24:7;26:18;	65:3	revision (1)
78:4	refreshing (1)	34:6,10;36:1;40:13;	resilient (1)	26:24
really (22)	63:18	41:6,24;50:16;61:18;	71:25	revisions (2)
5:7,16;15:25;18:8;	refrigerated (1)	72:5	resistant (1)	19:15,20
28:2;29:1,3,18,18;	46:20	renewables (3)	66:11	revitalize (1)
30:7,22;31:18,23;	refrigerators (1)	21:13;29:3,21	resisting (1)	51:12
43:6;49:10;51:11;	11:1	Renews (1)	22:6	revolution (1)
64:17;73:4,6,24;	regards (1)	36:10	resource (1)	66:12
79:22;81:3	27:17	rent (1)	27:9	RGGI (1)
reap (1)	regeneration (1)	51:7	respect (1)	41:15
56:3	69:8	repaid (1)	70:8	right (10)
reason (4)	regional (7)	56:8	respectful (1)	19:17,20;26:25;
63:17;66:18;76:6,	27:14;28:11,23;	repairs (2)	5:25	27:23;30:17;42:18;
10	31:12,14;41:13;46:13	11:10,11	respective (1)	43:21;51:1;59:22;
reasons (1)	registration (1)	replaced (2)	53:18	67:24
54:5	64:4	7:19;21:12	respiratory (3)	rightfully (1)
rebate (1)	Regulatory (2)	replacement (1)	13:13;20:25;37:11	61:19
-	<u> </u>	= ,,,		

				000000110,2010
right-of-way (4) 48:9,16,18,22	19:1;72:21;73:19 Sandy (2)	seeking (1) 61:10	<b>sharing (1)</b> 24:1	<b>smaller (1)</b> 61:10
Rigorous (3)	38:4;44:8	seem (2)	Shea (3)	smart (4)
22:4;23:15;26:18	Sara (1)	65:6;67:6	6:5,6,7	9:13,14,18;25:4
rising (1)	35:16	sees (2)	SHEEHAN (4)	sobering (1)
74:3	<b>SARAH (27)</b>	42:3;69:15	35:25;36:1;72:4,4	40:11
risk (5)	6:4;14:20;17:15;	sell (1)	sheet (1)	social (3)
13:24;16:1,6;25:15;	27:2;32:15;35:9,16;	52:16	55:1	16:4;69:4,6
46:15	36:3,3,5,6;42:13;	sense (4)	shelf (1)	society (1)
Riverside (1)	43:14,20;49:12;	28:3;30:11;31:7;	73:20	40:1
7:7	58:11,15;59:6,6;	53:1	shell (1)	socioeconomic (1)
road (3)	70:15,19,23;71:1,12,	sensing (1)	11:7	12:22
22:17;23:15;75:22	13,15,17	80:1	ship (2)	soft (1)
roads (1)	save (1)	sensors (1)	76:12,15	50:20
12:9	51:7	78:23	shipment (1)	solar (15)
ROBERT (7)	saves (1)	sent (1)	76:14	8:12,14,16;9:7,19,
71:3,4,15,24;72:6,9,	50:17	69:16	shop (1)	21;17:8;29:10;45:5,8,
17	saving (2)	September (2)	75:10	17;47:2;48:13;62:4;
robust (1)	55:16;80:19	4:5;5:2	shortly (1)	68:9
23:1	savings (6)	series (4)	4:3	sold (1)
role (3)	10:22;12:8;51:3;	5:6;18:6;62:25;	show (1)	52:9
18:18;25:7;55:10	53:11;56:1,4	63:6	4:2	Solomon (2)
rollbacks (1)	Sawyer (3)	serious (1)	showing (1)	5:18;18:4
			40:15	
22:7	14:21,25;15:1	13:11		solutions (2)
roof (1)	saying (4)	seriously (1)	shown (1)	13:23;26:11
11:10	60:20;65:17,24;	63:11	37:18	solve (1)
room (2)	70:3	serve (1)	shows (2)	66:7
5:24;73:7	scale (1)	10:13	5:8;75:7	solved (1)
round (1)	60:22	served (1)	side (4)	78:7
55:16	schedule (1)	29:14	35:24;78:20,23;	solving (1)
route (2)	8:3	service (1)	79:24	14:5
47:18;48:1	scheduling (3)	79:19	sidewalks (1)	somehow (1)
Rowan-Rutgers (1)	6:13;15:10;78:10	Services (4)	54:15	65:18
7:10	School (14)	4:19;6:9;10:18;	sign (1)	someone (2)
ruined (1)	7:4;12:12,14,15,21;	69:9	74:7	46:19;56:5
38:6	13:1,2,8;23:6;45:9,20,	serving (1)	signed (5)	somewhere (1)
run (3)	21,22;46:3	19:5	3:12,24;36:24;	46:5
21:17;28:21;67:23	schools (7)	sessions (2)	53:18;54:3	soon (3)
running (1)	45:1,1,4,6,15,24;	33:11;49:22	significant (6)	50:18;68:1;72:15
66:15	51:22	set (6)	9:23;10:8;33:22;	sorry (1)
rural (1)	sciences (1)	18:8;21:18;58:8;	34:4;40:9;52:1	71:13
23:3	7:10	62:20;64:14;67:24	signs (1)	sort (3)
Rutgers (2)	scientific (2)	sets (2)	15:19	30:14,21;49:4
7:4;44:11	25:12;40:6	34:1;39:23	similar (1)	sorts (1)
	scientist (1)	setting (2)	11:2	27:23
$\mathbf{S}$	19:3	15:13;19:16	Similarly (1)	sought (1)
	scientists (1)	settled (1)	47:23	44:3
S-2252 (1)	40:4	47:7	simple (1)	souls (1)
38:20	second (3)	settling (1)	76:6	41:1
S-2382 (1)	7:20;27:20;66:19	47:5	simply (1)	sounds (2)
38:20	sector (4)	several (6)	57:16	61:16:68:23
sacredness (1)	26:21;54:10;67:13;	7:9;9:3;54:1;55:9;	sincerely (1)	Soup (1)
41:2	68:10	63:13,20	18:2	8:14
safe (1)	sectors (2)	several-thousand (1)	site (1)	source (1)
37:21	22:3;25:2	28:14	29:8	30:4
safer (1)	secure (2)	severe (2)	size (1)	sources (6)
38:13	56:8,16	20:13;38:3	62:4	13:20;16:25;17:5;
safety (4)	secured (1)	sewer (1)	skills (1)	19:24;21:12;39:2
11:5;21:4;43:5;	54:11	38:2	24:11	South (4)
77:14	seeing (1)	sewers (1)	slim (1)	15:11;18:13;23:22;
				47:23
Solom (1)	77.7	5/1:15		
	72:7	54:15	60:3	1 1 E
Salem (1) 78:10 same (3)	72:7 seek (1) 68:2	54:15 <b>share (3)</b> 32:14;36:12;37:3	small (1) 19:3	span (1) 25:3

speak (6)	starting (1)	store (6)	10:1	systems (14)
6:11;15:9;17:14;	68:24	73:17,23;75:11,14,	suffer (3)	8:14;21:8;24:8;
35:8;60:2,7	state (40)	16;81:2	20:22;37:10,19	27:13;28:4,10;29:5;
speaker (2)	9:7;14:11,16;23:12;	storm (4)	suffering (1)	30:1;31:9,17,22;
5:21;43:22	32:23;36:15;37:19;	38:2;46:24,25;47:1	37:24	32:11;38:2;45:11
speakers (1)	38:7,15,16,19,22;	storms (1)	suffers (1)	
42:17	39:9;40:14,18,22;	38:3	37:13	$\mathbf{T}$
speaking (2)	41:6,9,15,18,22;42:3;	story (1)	sufficient (2)	
42:20;43:16	44:2;45:1,10,23;	78:9	64:21;67:19	tackle (1)
spearhead (1)	48:10;50:11;53:7,25;	strategic (2)	suggests (1)	64:19
3:14	56:13,20;58:22;	36:19;39:21	55:8	tailored (1)
special (5)	59:25;60:7;69:17,21;	strategically (1)	summarize (1)	54:18
30:13,14;34:7;	70:9;77:3;80:15	30:24	50:3	talk (3)
54:12,13	statement (2)	Street (1)	summary (1)	65:10;72:8;73:10
specific (5)	36:23;72:24	7:13	36:12	tall (1)
3:19;5:4,9;10:9;	statements (2)	streets (1)	summer (2)	61:1
27:18	15:7;77:25	37:14	38:1;78:11	taping (1)
				72:13
specify (1)	Staten (1)	strength (1)	sun (1)	
46:12	44:15	66:24	47:2	target (1)
spectrum (1)	States (5)	stretch (1)	sunlight (2)	12:21
12:23	13:15;40:6;47:17;	62:19	46:24,25	targeted (1)
speed (2)	53:15,19	strip (1)	super (1)	18:8
60:22;61:7	state's (5)	51:13	66:16	task (2)
spirited (1)	3:18;11:14;14:1,4;	strong (2)	supermarket (2)	3:16;70:7
18:16	36:19	23:24;56:10	75:2,4	tax (1)
	statewide (1)	strongly (2)	· · · · · · · · · · · · · · · · · · ·	56:9
splendor (1)		0.	Superstorm (1)	
41:2	33:6	33:14;41:20	38:4	taxes (1)
spoil (1)	station (1)	student (1)	supplied (1)	61:21
77:22	29:16	64:23	21:5	taxpayer (1)
spots (1)	stations (1)	students (1)	suppliers (1)	19:2
75:5	20:18	64:16	74:10	Taxpayers (4)
spring (1)	statute (1)	studies (2)	support (10)	45:2,6;53:7;58:1
4:10	53:23	37:18;40:6	7:3,15;8:7;24:24;	Taylor (2)
spurring (1)	stave (1)	study (1)	33:14;36:16;39:18;	17:20;42:14
25:8	20:11	63:3	41:10,12;64:12	technical (5)
St (1)	stay (1)	Subaru (1)	supporting (2)	30:2;31:4,7;73:1;
19:7	16:19	7:5	64:5;73:1	80:13
stable (1)	staying (1)	SubCom (1)	sure (5)	technically (3)
37:21	64:13	46:9	30:10;34:3,11,19;	29:4;30:8;32:11
staff (2)	steady (1)	subject (1)	78:1	technological (2)
18:24;59:4	77:3	60:4	surrounding (2)	23:17;24:22
staffers (1)	step (1)	submit (5)	10:3;14:13	technologies (3)
62:11	15:15	5:14;6:2;35:5;	sustainability (3)	10:18;24:23;25:3
stakeholder (7)	stepped (1)	70:16,20	52:3;58:21;63:4	temperature (1)
3:4,5;4:4;5:2;6:11,	64:12	submitted (1)	sustainable (5)	40:7
		` ′		
13;43:3	steps (3)	49:20	33:5;42:6;47:12,12;	temperatures (3)
stand (4)	3:20;16:9;21:10	submitting (1)	50:10	16:3;25:21;26:1
40:15,16,18;41:9	steroids (1)	27:6	swift (1)	temporary (1)
standard (1)	68:3	subprogram (1)	26:22	79:6
57:5	stick (1)	10:13	swiftly (1)	ten (4)
standards (2)	48:23	subsidies (3)	19:13	5:23;59:12;76:14;
22:4,7	sticking (1)	39:10;57:15;62:5	Switching (1)	77:12
standby (1)	49:11	substances (1)	63:9	tend (3)
27:25	still (2)	13:17	sync (1)	31:10;62:22;64:2
	` ,		79:8	
standpoint (1)	69:21;81:8	substation (1)		tending (1)
73:25	stock (2)	7:14	synchronize (2)	66:23
staples (1)	57:6,20	subtract (1)	79:10;80:5	ten-minute (1)
77:20	stop (2)	48:11	Synchroscope (3)	71:22
start (4)	74:8;78:5	suburban (1)	78:16,23;80:2	term (2)
11:17;47:2;51:2;	stopped (1)	51:12	system (10)	60:19;61:2
80:3	50:14	Success (1)	7:17,21;8:16,22;	terms (1)
started (2)	storage (2)	23:22	23:6;30:9,15;32:7;	54:21
62:16;72:12	25:5;31:14	successful (1)	46:21;48:22	Tesla (1)
02.10,72.12	23.3,31.17	Successiui (1)	70.21,70.22	Losia (1)
	1	1	1	I .

	1			0 000001 10, 2010
45:19	tonight (2)	Transportation (10)	78:14;79:1,2	8:22;39:24;50:9,24;
test (1)	5:19;71:9	4:20;22:3,12;26:20;	unchangeable (1)	76:2;78:16
33:22	tons (4)	35:21;38:12;39:14;	65:16	used (6)
tested (1)	12:6;75:8;76:14,25	71:21;73:21;74:1	under (3)	27:14;29:23;39:7;
31:12	top (1)	traps (2)	7:1,20;63:1	54:14;79:22;80:7
testimony (1)	27:7	65:1,1	underlying (1)	useful (2)
19:9	topic (1)	Treasury (1)	52:7	58:4;70:6
Thanks (3)	68:12	4:21	understands (1)	uses (1)
43:13,25;72:6	topics (1)	tremendous (1)	50:7	77:10
theme (3)	69:3	11:20	unfortunately (3)	using (5)
5:4;59:24;63:1	topped (1)	trend (1)	15:5,24;53:22	52:19;56:4;77:1,1,2
thereby (1)	32:2	27:24	unimaginable (1)	usual (1)
57:1	total (2)	tried (2)	16:5	61:9
therefore (1)	9:2;46:5	62:18;71:16	unique (2)	usually (3)
56:11	totally (3)	trip (2)	50:12;62:6	61:9;64:15,20
thermostat (2)	41:6;64:15;69:13	70:5;76:3	unit (2)	Utilities (3)
9:13,19	toward (2)	triple (1)	27:22;78:12	3:7;18:3;27:13
thermostats (1)	22:15;26:17	69:7	United (1)	utilities' (1)
9:15	towards (3)	trips (1)	13:15	8:8
thinking (1)	12:18;41:4;80:19	37:16	units (1)	utility (1)
80:8	Tower (1)	truck (3)	27:25	45:8
third (1)	7:12	37:16;74:17;75:7	universities (1)	utilization (2)
72:19	towns (1)	trucks (2)	64:7	20:9;56:12
thirty-three (1)	52:3	13:21;74:5	unless (1)	20.9,30.12
75:12	town's (1)	true (1)	42:18	$\mathbf{v}$
	56:8	16:10	unprecedented (1)	Y
though (2)			26:5	lkla (2)
60:1;65:16	toxic (1)	truly (3)		valuable (2)
thought (1)	38:5	4:15;16:25;17:5	up (27)	51:5;53:12
30:22	track (2)	Trump (1)	6:5;12:8,19,20;	value (2)
thousand (1)	25:25;59:10	65:10	27:19,22;28:5;29:14;	49:23;52:11
80:23	tractor-trailer (1)	trust (1)	30:15;32:4,7;35:7;	vans (1)
thousands (2)	76:23	9:24	37:5;44:12;45:14;	74:6
37:15;76:5	trade (1)	truth (1)	47:2;56:25;62:1;	various (1)
threat (1)	11:24	40:12	64:12;68:13;71:20;	54:5
20:20	train (2)	try (4)	75:7;76:4;79:11;80:3,	vast (1)
threatens (1)	76:16,22	30:20;72:16,21,25	4;81:3	25:11
21:3	training (1)	trying (4)	upcoming (1)	vehicle (9)
three (4)	7:5	30:24,25;62:12;	24:25	8:21,23;11:18;12:4;
19:22;23:11;75:25;	transferred (1)	77:8	updates (1)	22:20;37:1,7;38:18;
76:14	52:8	turning (1)	18:6	39:9
three-phase (1)	transform (2)	42:10	upfront (1)	vehicles (9)
79:4	50:8;55:12	turnpike (2)	50:21	11:20;13:7,21;14:4;
tie (1)	transformation (2)	47:24;48:8	upgrades (4)	22:16;29:9;37:22;
30:11	60:20;63:4	two (11)	7:1;8:2;11:2;50:24	38:8;39:12
tied (1)	transformational (1)	19:3;21:25;43:2;	upgrading (1)	vendors (1)
52:5	65:2	46:10;47:15;62:11;	50:15	51:17
timeline (1)	transforming (2)	67:23;72:14;75:18,	upon (2)	viewpoints (1)
3:22	60:21,25	24;80:25	40:21;41:5	6:16
timely (1)	Transit (4)	tying (1)	<b>UPS</b> (3)	Vineland (2)
44:20	4:21;23:5;39:6;	79:20	74:6,8,14	74:16,18
times (1)	47:17	<b>type</b> (1)	uptake (2)	Vineland's (1)
20:2	transition (5)	31:13	22:24;57:14	31:22
today (10)	19:14,18;26:23;	typical (1)	urban (4)	vision (5)
		76.05	12:24;14:1;37:24;	18:9,25;31:10;
3:3,9;14:18;19:9;	40:16;55:10	76:25	12.2 .,1,2 ,.2 .,	
			49:24	36:19;39:22
3:3,9;14:18;19:9;	40:16;55:10	typically (4) 51:1;55:21,25;		
3:3,9;14:18;19:9; 36:11;44:21;58:20,	40:16;55:10 transitional (1) 20:10	typically (4)	49:24	36:19;39:22
3:3,9;14:18;19:9; 36:11;44:21;58:20, 24;60:4;69:23 <b>together (7)</b>	40:16;55:10 transitional (1) 20:10 transitioning (2)	typically (4) 51:1;55:21,25;	49:24 urge (4)	36:19;39:22 vital (1) 19:18
3:3,9;14:18;19:9; 36:11;44:21;58:20, 24;60:4;69:23 <b>together (7)</b> 4:9;30:11,17;36:16;	40:16;55:10 transitional (1) 20:10 transitioning (2) 18:19;41:5	typically (4) 51:1;55:21,25; 63:15	49:24 <b>urge (4)</b> 15:16;16:12,24; 26:15	36:19;39:22 vital (1) 19:18 vitally (1)
3:3,9;14:18;19:9; 36:11;44:21;58:20, 24;60:4;69:23 <b>together</b> (7) 4:9;30:11,17;36:16; 39:25;69:12;78:17	40:16;55:10 transitional (1) 20:10 transitioning (2) 18:19;41:5 transmission (5)	typically (4) 51:1;55:21,25;	49:24 <b>urge (4)</b> 15:16;16:12,24; 26:15 <b>urgency (1)</b>	36:19;39:22 vital (1) 19:18 vitally (1) 22:5
3:3,9;14:18;19:9; 36:11;44:21;58:20, 24;60:4;69:23 together (7) 4:9;30:11,17;36:16; 39:25;69:12;78:17 told (2)	40:16;55:10 transitional (1) 20:10 transitioning (2) 18:19;41:5 transmission (5) 21:3;28:7,25;29:7;	typically (4) 51:1;55:21,25; 63:15	49:24 <b>urge (4)</b> 15:16;16:12,24; 26:15 <b>urgency (1)</b> 41:5	36:19;39:22 vital (1) 19:18 vitally (1) 22:5 voice (1)
3:3,9;14:18;19:9; 36:11;44:21;58:20, 24;60:4;69:23 <b>together (7)</b> 4:9;30:11,17;36:16; 39:25;69:12;78:17 <b>told (2)</b> 64:24;78:1	40:16;55:10 transitional (1) 20:10 transitioning (2) 18:19;41:5 transmission (5) 21:3;28:7,25;29:7; 43:8	typically (4) 51:1;55:21,25; 63:15 U ultimately (3)	49:24 urge (4) 15:16;16:12,24; 26:15 urgency (1) 41:5 usage (1)	36:19;39:22 vital (1) 19:18 vitally (1) 22:5 voice (1) 24:1
3:3,9;14:18;19:9; 36:11;44:21;58:20, 24;60:4;69:23 together (7) 4:9;30:11,17;36:16; 39:25;69:12;78:17 told (2)	40:16;55:10 transitional (1) 20:10 transitioning (2) 18:19;41:5 transmission (5) 21:3;28:7,25;29:7;	typically (4) 51:1;55:21,25; 63:15	49:24 <b>urge (4)</b> 15:16;16:12,24; 26:15 <b>urgency (1)</b> 41:5	36:19;39:22 vital (1) 19:18 vitally (1) 22:5 voice (1)

volunter (1)         welcome (6)         welcome (6)         workplace (1)         25:1-40.8         3.13,816-18-34.321;         constitution of the property of					
19-6   33.83-618.43-21; works (1)   48-117-43.76-9; welcomes (1)   6-23   works (1)   6-23   works (2)   15-14.1718.9; welcomes (1)   15-23   works (4)   100 (16)   15-25   20-10 weren't (3)   wer	voluntoor (1)	wolcomo (6)	workniego (1)	26.1.40.8	3.10.15.24.18.10.
votors (1)         498/71/7         work (1)         481.17/43/76.9;         20         49.25 (1) (6.83)         40.00 (1)         20.21         40.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         50.00 (1)         60.16 (1)         13.24 (1)         100 (1)         68.89.977.2 (2)         238.25 (2)         238.2 (1)         23.10 (1)					
64:3					
voters (1)         65:23         world (4)         100 (16)         5:6         5:6         5:6         5:6         5:6         5:6         5:6         5:6         5:6         5:6         5:6         6:25         world's (1)         5:1         5:1         5:1         5:1         47:5		,			
6-51.1 volumerable (1)					
valuerable (1)         155:53017;62:17         60:25         21:23:292,20:248:2;         46:4           W         47:23         60:21         ovoids (1)         60:15         60:12         60:15         47:5           wait (1)         wherever (1)         74:16         worry (1)         12:20         28:25           waiting (1)         47:16         52:15         12:30         23:20         39:10           waiting (1)         48:20         33:10         worst (2)         45:16:38:76:24         224 (1)         31:2           warning (3)         16:22:118:22:9         whose (4)         15:20:20:11         122:01         33:12           Warren (1)         66:51,014,17:20         wicked (6)         wow (2)         8:25         122 (1)         31:2           Warren (1)         66:51,014,17:20         wind (1)         45:12,73:23         45:14         150:20         45:27:33         75:7           Waste (2)         15:24         wind (1)         45:12         45:14         150:20         45:27:33         75:7         25:15         15:20:20:11         12:01         47:24         24:10         15:14         15:14         15:14         15:14         15:14         15:14         15:14         15:16         48:17:	` /		` /		
W         west (1)         world's (1)         50:19:54:95:510; 60:12         47:53					
W         47:23 (60:21 % oversione (1) 13:24 worrsome (1) 12:20 2382 (1) 12:30 39:10 wordsome (2) 12:20 2382 (1) 12:20 2382 (1) 12:20 worrsome (2) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 12:20 2382 (1) 13:20					
Wait (1)         what's (1)         worrisome (1)         76.81,977.2         23 (1)           vait (1)         wherever (1)         15.24         102 (1)         28.25           59:1         74:16         52:15         12 (3)         39:10           waiting (1)         whole (1)         15:22.15         12 (3)         39:10           waiting (1)         whole (a)         15:20:20:11         12 (2)         23 d (1)           45:24         whole (3)         33:10         45:20:20:11         12 (3)         33:12         24 (3)           warming (3)         whole (4)         33:10         worthiness (1)         47:24         24 (3)         67:21:70:16;20           Warning (1)         66:56, 50, 10, 14, 17.20         www (2)         8:25         25 (1)         75:7           Warren (1)         66:55, 51, 10, 14, 17.20         write (1)         43:17, 57:23;74:3         25:00         45:14         writen (6)         48:27:68         2500 (1)         45:94:63           waste (2)         74:22         75:74:22         72:76:40:36:14;         16:11         48:27:68         2500 (1)         48:27:68         26:20:11         48:27:48         48:17         28:(2)         48:(2)         48:(2)         48:(2)         48:(2)	20:21				
wait (1)         66:16         13:24         102 (1)         8:25           59:1         74:16         52:15         12:20         2382 (1)           waiting (1)         whole (1)         52:15         12:20         2382 (1)           wall (1)         wholeheartedly (1)         15:20:20:11         12:20         234 (1)           45:20         33:10         whose (4)         45:12:20:20:11         135 (1)         67:21;70:16:20           warming (3)         whose (4)         52:10         135 (1)         67:21;70:16:20           Warning (1)         66:5,61:01,41,7.20         wicked (6)         75:7           Warren (1)         wide (1)         52:10         135 (1)         43:17;57:23;74:3         250 (2)           waste (2)         wide (1)         45:12:70:5         48:27:68         250 (2)         250 (2)           waste (2)         wide (1)         57:42         48:17;57:23;74:3         250 (2)         250 (2)           waste (2)         widely (1)         66:5         48:27:68         250 (1)         48:17         28:18         250 (2)           Water (5)         videly (1)         66:5         37:22:24:77:25         12:6         28 (2)         29:14:42:42:51         22:6         28 (2)	**7				
wait (1)         wherever (1)         vory (1)         12-20         2382 (1)           vaiting (1)         whole (1)         vorst (2)         45:15.2         23 (2)         39:10           wall (1)         45:20         33:10         whole (1)         vorst (2)         45:16.28.76:24         23d (1)           warning (3)         whose (4)         vow (2)         10:14.33:2,737:23         word (1)         47:24         24 (3)           Warren (1)         vice (1)         66:5.6.10,14,17.20         wite (1)         43:17:57:23,74:3         25 (2)           Warren (1)         vice (1)         45:12 (2)         45:26.8         25 (2)           Warter (2)         wide (1)         virite (1)         43:17:57:23,74:3         26 (2)           45:12,70:5         vice (3)         virite (1)         43:17:57:23,74:3         25 (2)           55:20         virite (6)         48:22,70:5         48:17:52.24         48:17:52.68         25 (2)           Water (5)         77:15         17:83:72:22.28:6.17, 51:8         37:22:38:64:12.50:24         48:17         28:13           water (5)         17:83:72:22.28:6.17, 51:8         48:17         27:14:46:12.70:22.         48:12:25         29th (1)           38:5         33:15         vind (9)	VV				
591'         74:16'         52:15'         12 (3)         39:10'           waiting (1)         28:3         15:20:20:11         15:20:20:11         22 (1)         31:10'         31:10'         31:10'         31:10'         32:10'         31:20':20:11         135:20:20:11         135:20:20:11         22 (1)         31:10'         31:10'         31:10'         31:10'         31:10'         31:10'         31:10'         30:10'<					
waiting (1)         by Mole (1)         worst (2)         45:162:8;76:24         23rd (1)           wall (1)         wholeheartedly (1)         33:10         worthiness (1)         45:162:8;76:24         24 (3)           warming (3)         whose (4)         worthiness (1)         47:24         24 (3)           warming (3)         whose (4)         worthiness (1)         82:5         25 (1)           Warren (1)         66:5,6,10,14,17,20         wow (2)         82:5         25 (1)           Warren (1)         66:5,6,10,14,17,20         wide (1)         43:1757:23;74:3         250 (2)         45:9,66:3           waste (2)         46:12,705         74:22         75:60-3,61:4         15:0(2)         45:9,26:3         45:90 (3)         45:90 (3)         45:20 (4)         45:20 (2)         45:22,705         45:12,705         44:25         45:72         45:12,705         44:22         45:14         15:0(2)         45:12,68         25:0(1)         45:12,705         45:12,705         45:12,705         45:12,705         45:12,705         44:22         45:12,705         44:25         44:25         44:25         44:25         44:25         44:25         44:25         44:25         44:11         45:16         17:17         45:12,705         48:1         45:17					
15:24   wall (1)					
wall (1)         45:20         whose (4)         52:20         47:24         24 (3)         24 (2)         47:24         24 (3)         25 (2)         47:24         24 (3)         25 (2)         47:24         25 (2)         47:24         47:24         25 (2)         35:10         80:25         25 (1)         135 (1)         35:25         25 (1)         75:7         25:00         25:00         25:00         45:12         45:13         45:25         45:16         45:16         45:15         45:16         45:12         45:12         45:12         45:12         47:24         45:13         45:25<					
45:20 warming (3) 16:2;21:18;22:9         33:10 whose (4) whose (4) 10:14;33:2,7;37:23 wicked (6) (60:11 66:5,6,10,14,17,20 with (1) 43:17;57:23;74:3         78:48:0:10 15 (3) 43:17;57:23;74:3         25 (1) 75:7 75:7 75:7 75:7 75:7 75:7 75:7 75:					
warming (3)         whose (4)         to (1):14;33:2,7;37:23         wow (2)         8:25         25 (1)         75:7         75:7         75:7         75:7         75:7         250 (2)         45:12;70:5         45:12;70:5         48:27:76:8         250 (2)         45:12;70:5         48:27:76:8         25:00 (1)         44:25         44:21         44:25         44:25         44:21         44:25         44:21         44:25         44:21         44:25         44:21         44:25					
16:221:18;22:9     10:14/33:2,7:37:23     78:480:10     15:02     3:17:57:23;74:3     250 (2)   45:9;46:3     250 (2)   45:9;46:3     250 (2)   45:9;46:3     48:27:68     250 (2)   45:9;46:3     48:27:68     250 (2)   45:9;46:3     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (2)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (1)   48:27:68     250 (2)   48:	45:20				
Warning (1)         wicked (6)         with (1)         43:17;57:23;74:3         250 (2)           Warren (1)         wide (1)         36:14         150 (2)         45:19;46:3           waste (2)         wide-laid (1)         74:22         27:6;40:4;61:4;         16 (1)         48:27:68           wsted (1)         widely (1)         63:77:22:477:25         16:40 (1)         31:13:33:18           S5:20         54:14         wrong (3)         37:20;38:6:41:23         16:40 (1)         3:13:33:18           Water (5)         wind (9)         Y         47:25         29th (1)           7:15:2,4         66:5         yard (1)         36:9         28:10           water (5)         77:15:2,4:21:5;         38:5         yind-type (1)         31:13:13         yard (1)         37:5           watt (1)         31:13         54:3:55:16:68:16;         2(7)         48:1         3(5)           wat (1)         31:13         54:3:55:16:68:16;         2(7)         2(7)         16:1(48:22:59:13;         3(5)           wat (1)         31:13         54:3:55:16:68:16;         2(7)         2(7)         27:12         2(7)           wat (1)         31:13         54:3:55:16:68:16;         2(7)         2(7)         2(7)					
66:16 wide (1)	16:2;21:18;22:9	10:14;33:2,7;37:23	78:4;80:10	15 (3)	
Warren (1)         wide (1)         wide (1)         st:14         48:2276:8         2500 (1)           58:25         10:24         stiten (6)         48:127.05         262 (1)           45:12;70:5         74:22         27:6;40:4;61:4;         16 (1)         48:20           48:20         48:20         36:77:224;77:25         12:6         28 (2)           55:20         54:14         wrong (3)         112:6         28 (2)           Water (5)         54:14         wrong (3)         48:17         28 (2)           7:7;15:2,4;21:5;         66:5         ywind (9)         48:17         28 (1)           7:15         wind (9)         yris (1)         37:5         29th (1)           84ert (5)         77:18         23:29:24;41:12;62:4;         78:13         48:1         37:5           9att (1)         31:13         31:13         31:13         35:22;27;22;2.8         31:13         35:13;33:18           water (1)         31:13         31:13         27:18         31:13         35:12;24;27:22.8         36:12;42:17:22.8         36:15;73:12:22.8         48:1         36:15;43:13:3         35:13;44:12:7:22:3         36:15;44:12:7:22:3         36:15;43:13:3         35:16:14;48:13:13:4         36:16:16;67:25;68:12:2         20:10	Warning (1)	wicked (6)	write (1)	43:17;57:23;74:3	250 (2)
58:25         waste (2)         wide-laid (1)         written (6)         43:15         262 (1)           wasted (1)         widelaid (1)         vritten (6)         27:6;40:4;61:4;         63:7,72:24;77:25         16 (1)         48:20           S5:20         54:14         wrong (3)         1640 (1)         3:13:33:18           Watch (2)         Wilkipedia (1)         66:5         wrong (3)         48:17         285 (1)           Water (5)         7:7;15:2,4;21:5;         51:8         x3:29:24;41:12;62:4;         yard (1)         78:13         37:20;38:6;41:23         155 (1)         48:17         285 (1)         37:50;29:14(1)         37:50;38:6;41:23         155 (1)         37:5         37:50;38:6;41:23         37:20;38:6;41:23         48:17         285 (1)         48:17         285 (1)         48:17         285 (1)         48:17         285 (1)         48:17         48:17         48:17         33:5         48:17         285 (1)         48:11         37:50;38:6;41:23         48:17         28:18         48:17         28:18         48:17         28:18         48:17         29:20;12:12:22:39:13;22:13;22:13;22:13;22:13;22:13;22		66:5,6,10,14,17,20	36:14	150 (2)	45:9;46:3
58:25         waste (2)         wide-laid (1)         written (6)         43:15         262 (1)           wasted (1)         widelaid (1)         vritten (6)         27:6;40:4;61:4;         63:7,72:24;77:25         16 (1)         48:20           S5:20         54:14         wrong (3)         1640 (1)         3:13:33:18           Watch (2)         Wilkipedia (1)         66:5         wrong (3)         48:17         285 (1)           Water (5)         7:7;15:2,4;21:5;         51:8         x3:29:24;41:12;62:4;         yard (1)         78:13         37:20;38:6;41:23         155 (1)         48:17         285 (1)         37:50;29:14(1)         37:50;38:6;41:23         155 (1)         37:5         37:50;38:6;41:23         37:20;38:6;41:23         48:17         285 (1)         48:17         285 (1)         48:17         285 (1)         48:17         285 (1)         48:17         48:17         48:17         33:5         48:17         285 (1)         48:11         37:50;38:6;41:23         48:17         28:18         48:17         28:18         48:17         28:18         48:17         29:20;12:12:22:39:13;22:13;22:13;22:13;22:13;22:13;22	Warren (1)	wide (1)	writing (1)	48:2;76:8	2500 (1)
45:12;70:5         74:22         27:6;40:46:14;         16 (1)         48:20           Watch (2)         55:20         54:14         Widely (1)         63:7;72:24;77:25         1640 (1)         3:13;33:18           Watch (2)         Wilkipedia (1)         66:5         wrong (3)         37:20;38:6;41:23         48:17         285 (1)           Water (5)         17:8;27;22;28:6,17, 51:8         23:29;24;41:12;62:4;         yard (1)         78:13         48:17         29th (1)           water (1)         7:15         winds (1)         yard (1)         78:13         yard (1)         78:13           water (1)         31:13         54:3;55:16;68:16; 74:3         2         30:11;64:12;7:22;         3         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:13;33:31:33:31:8         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;23;         30:16;148:13;23;         30:16;148:13;23	58:25	10:24		15-minute (1)	44:25
45:12;70:5         74:22         27:6;40:46:14;         16 (1)         48:20           Watch (2)         55:20         54:14         Widely (1)         63:7;72:24;77:25         1640 (1)         3:13;33:18           Watch (2)         Wilkipedia (1)         66:5         wrong (3)         37:20;38:6;41:23         48:17         285 (1)           Water (5)         17:8;27;22;28:6,17, 51:8         23:29;24;41:12;62:4;         yard (1)         78:13         48:17         29th (1)           water (1)         7:15         winds (1)         yard (1)         78:13         yard (1)         78:13           water (1)         31:13         54:3;55:16;68:16; 74:3         2         30:11;64:12;7:22;         3         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:12;64:12;7:22;         30:13;33:31:33:31:8         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;13;         30:16;148:13;23;         30:16;148:13;23;         30:16;148:13;23	waste (2)	wide-laid (1)	written (6)	43:15	262 (1)
wasted (1)         widely (1)         63:7;72:24;77:25         12:6         28 (2)         3:13;33:18           Watch (2)         Ukikpedia (1)         66:5         48:17         285 (1)         76:20           Water (5)         17;8;27:22;28:6,17,         y         48:17         285 (1)         76:20           7;15:2,4;21:5;         17;8;27:22;28:6,17,         y         47:25         29th (1)         37:5           51:8         23;29:24;41:12;62:4;         48:1         37:5         20;00         29th (1)         37:5           7:15         waters (1)         27:18         31:13         yeart (12)         31:13         yeart (12)         20:12;42:9;50:1;         20:11;48:13,13;         59:13;80:20         35:5         31:6         27:11;49:1;54:1,22;         20:01;23:20;22;72:2,2.8         years (17)         78:12         20:00 (1)         35:00					
St.20		widely (1)			
Watch (2)         Wikipedia (1)         37:20;38:6;41:23         48:17         285 (1)         76:20           Water (5)         77:15:2,4;21:5;         17:8;27:22;28:6,17,23;29:24;41:12;62:4;         yard (1)         37:5         29th (1)         37:5           51:8 water(1)         23:29:24;41:12;62:4;         yard (1)         yard (1)         37:5         37:5           waters (1)         27:18 wind-type (1)         31:13 year (12)         22         31:13 year (12)         2         33:21,6;4:12;7:22;         33:21,6;4:12;7:22;         33:12:10;42:9;50:1;         2(7)         35:23:29:13;         59:13:80:20         30:00 (1)         37:5         35:23:29:27:22;2,8         35:23:29:27:22;2,2,8         33:13 year (12)         2(7)         35:5         35:16;148:13,13;         35:16;148:13,13					
15:2.4   66:5   wind (9)   7:7;15:24;21:5;   17:8;27:22;28:6,17,   23:29:24;41:12;62:4;   yard (1)   78:13   year (12)   31:13   31:13   54:35:16;68:16;   35:22;27:2;2,8   wind-type (1)   31:16   35:22;27:2;2,8   wind-type (1)   31:16   35:22;27:2;2,8   wind-type (1)   31:16   27:11   48:11   35:23;27:24;42:2;51:19;   35:22;27:2;2,8   wind-type (1)   31:16   27:11:49:1;54:1,22;   78:12   2,000 (2)   3,000 (1)   28:18   20:12;27:22;28   wind-type (1)   31:16   27:11:49:1;54:1,22;   2,000 (2)   3,000 (1)   28:6   20:12;36:24:45:19,   17:13;77:3,5   30:11:15:18   20:12;22:20;26:3;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;21:13;22:13;   20:12;36:24:45:19,   17:12;36:25;77:4   17:12;36:					
Water (5)         wind (9)         Y         47:25         29th (1)           7:7;15:2,4;21:5;         7:7;15:2,2;28:6,17,         33:29:24;41:12;62:4;         yard (1)         37:5           7:15         winds (1)         78:13         yard (1)         78:13         3           38:5         wind-type (1)         31:13         54:3;55:16;68:16;         74:3         2(7)         16:1;48:13,13;           45:7         WINKA (5)         35:22,22;72:2,2,8         winners (1)         74:3         78:12         2,000 (2)         3,000 (1)           39:24;42:2;51:19;         31:6         27:11;49:15;41,22;         78:12         2,000 (2)         3,500 (1)           39:24;42:2;51:19;         31:6         27:11;49:15;41,22;         20:12;36:24;45:19,         35:00 (1)           58:5,24;60:1;61:23;         77:18;80:19         28:18         61:1;62:8,19;63:2;         200 (2)         35:00 (1)           77:18;80:19         20:12;22:20;26:3;         20:12;36:24;45:19,         74:19         74:19           77:18;80:19         20:12;22:20;26:3;         20:12;47:37:3,5         30 (1)         30 (1)           70:12         20:12;36:24:21         20:12;47:46         20:12;45:24;519,         30:6)           8eather (1)         44:8;79:23         44:8;					
7:7;15:2,4;21:5; 51:8 waterfront (1) 7:15 waters (1) 38:5 wind (1) 45:7 way (12) 35:22,22;72:2,2,8 winners (1) 31:13  WINKA (5) 32:27;72:18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18:80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 word (1) 59:25;60:25;69:21; 70:12  Without (2) without (2) without (2)  Without (2)  Without (2)  Without (3) 44:87:9:23  weeks (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 year (12) 31:13 year (12) 22(7) 41:148:22;59:13; 60:15;75:15;76:22; 78:12 20(0) (2) 28:18:75:9 41:11 20(0) 20(1) 21:14:14;54:21; 2000 (1) 20:14:14;54:21; 2008 (1) 30,000 (1) 20:14:14;54:21; 2008 (1) 30,000 (1) 20:14:14;54:21; 2008 (1) 30,000 (1) 20:14:14;54:21; 2008 (1) 30,000 (1) 20:14:14;54:21; 2008 (1) 30,000 (1) 20:141:14;54:21; 2008 (1) 30,000 (1) 22:17 22:16 2328 (1) 24:2 2019 (2) 3280 (1) 22:16 22:16 235:22:13;22:13; 22:21:13;22:13; 22:21:13;22:13; 22:21:13;22:13; 23:22:13;22:13; 23:22:15:15:15:17 4 4(2) 2006 (2) 201(1) 31:10 31			Y		
51:8 waterfront (1)         23;29:24;41:12;62:4; 68:9         yard (1)         48:1         3           waters (1)         38:5 wind-type (1)         31:13 year (12)         2           watt (1)         31:13         31:13         27:18         31:21,6;4:12;7:22; 3:12,6;6:16;6:16; 74:3         2 (7)           watt (1)         31:13         45:7         WINKA (5)         35:22,22;72:22,2,8 winners (1)         54:3;55:16;68:16; 74:3         60:15;75:15;76:22; 78:12         3,000 (1)         28:6         3,000 (1)         28:18         60:15;75:15;76:22; 78:12         3,000 (1)         28:18         60:19;94;20:13; 20:18; 20; 20:12;36:24;45:19, 71:18;49:15;41;22; 20:12;36:24;45:19, 74:19         28:18         60:19;94;20:13; 20:18; 20:12;36:24;45:19, 74:19         30:00 (1)			-		
waterfront (1)         68:9 winds (1)         78:13 year (12)         2           waters (1)         38:5 wind-type (1)         31:13 (15:4:12:7:22:)         31:13 (5:4:12:7:22:)         31:13 (5:4:3:55:16:68:16:)         2 (7)         16:1;48:13,13;         59:13:80:20         36:5)         36:5)         36:5)         36:5)         36:13:33 (5)         36:13:32:23:23:23:23:23:23:23:23:23:23:23:23			vard (1)		27.10
7:15 waters (1)         winds (1)         year (12)         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:12,16;4:12;7:22;         3:13         54:3;55:16;68:16;         74:3         56:3;55:16;68:16;         74:3         60:15;75:15;76:22;         3;000 (1)         22:66         33:000 (1)         28:18         60:15;75:15;76:22;         3,000 (1)         28:18         60:15;75:15;76:22;         3,500 (1)         28:18         3,500 (1)         28:18;75:9         41:11         33:00 (1)         33:00 (1)         28:18         20:12;22:20;26:3;         20:12;22:20;26:3;         20:12;22:20;26:3;         20:12;22:20;26:3;         20:12;4;74:6         20:12;4;51:19,77:13;77:3,5         30:06 (1)         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)         74:19         30:00 (1)				10.1	2
waters (1)         27:18         33:12,16;4:12;7:22;         8:18;12;10;42:95:11;         2 (7)         16:1;48:12,59:13;         59:13;80:20           watt (1)         45:7         WINKA (5)         35:22,22;72:2,2,8         winners (1)         45:35:16;68:16;         6:15;75:15;76:22;         78:12         2,000 (2)         3,000 (1)         28:6         3,500 (1)         29:0 (1)         20:12;36:24;45:19,         20:12;36:24;45:19,         20:12;36:24;45:19,         20:12;36:24;45:19,         20:12;36:24;45		hx'9	/X·13		.)
38:5         wind-type (1)         8:18;12:10;42:9;50:1;         2 (7)         16:1;48:22;59:13;         59:13;80:20           way (12)         35:22,22;72:2,2,8         winners (1)         54:3;55:16;68:16;         74:3         59:13;80:20           3:21;7:2;18:20;         simers (1)         35:22,22;72:2,2,8         winners (1)         6:19;9:4;20:13;         2,000 (2)         3,500 (1)           3:21;7:2;18:20;         simers (1)         31:6         27:11;49:1;54:1,22;         28:18         35:00 (1)           58:5,24;60:1;61:23;         wires (1)         28:18         61:1;62:8,19;63:22;         20:12;36:24;45:19,         41:11           ways (3)         within (7)         65:5;73:12         19;75:7,13;77:3,5         30 (6)           30:11;58:2;62:2         20:12;22:20;26:3;         York (2)         2008 (1)         30;00 (1)           weather (1)         59:25;60:25;69:21;         70:12         72:14;74:6         48:20         30;00 (1)           website (1)         work (10)         22:18         61:16;67:25;68:22         2011 (1)         31st (1)           week (9)         work (10)         48:719;26:13;         24:2         2012 (1)         32:6           59:19;60:11;63:1         46:9;65:18;67:6;78:2         1         2030 (2)         3280 (1) <td></td> <td></td> <td></td> <td>2</td> <td>3</td>				2	3
watt (1)         31:13         54:3;55:16;68:16;         16:1;48:22;59:13;         59:13;80:20           way (12)         35:22,22;72:22,8         winners (1)         74:3         60:15;75:15;76:22;         3,000 (1)           39:24;42:2;51:19;         31:6         27:11;49:1;54:1,22;         28:18         2000 (2)         3,500 (1)           885;24;60:1;61:23;         wires (1)         55:9;59:2,16;60:6;         20 (8)         300 (1)           77:18;80:19         within (7)         55:9;59:2,16;60:6;         20:12;36:24;45:19,         74:19           30:11;58:2;62:2         20:12;22:20;26:3;         York (2)         200 (1)         20:12;36:24;45:19,         74:19           weather (1)         59:25;60:25;69:21;         70:12         2008 (1)         30,000 (1)           weatherization (2)         vithout (2)         Z         20:11 (1)         31st (1)           week (9)         work (10)         20:11 (1)         31st (1)           6:3;15:23;20:8;         4:8;7:19;26:13;         24:2         2011 (1)         328 (1)           weeks (9)         work (10)         46:9;65:18;67:6;78:2         1         2023 (1)         330,000 (1)           44:23         4:8;7:19;26:13;         24:2         2019 (2)         3280 (1)         320,000 (1) <td>7:15</td> <td>winds (1)</td> <td>year (12)</td> <td>2</td> <td></td>	7:15	winds (1)	year (12)	2	
45:7         WINKA (5)         74:3         60:15;75:15;76:22;         3,000 (1)           way (12)         35:22,22;72:2,2,8         years (17)         78:12         28:6         3,500 (1)           3:21;7:2;18:20;         31:6         27:11;49:1;54:1,22;         2,000 (2)         3,500 (1)           39:24;42:2;51:19;         31:6         27:11;49:1;54:1,22;         28:18;75:9         41:11           58:5,24;60:1;61:23;         wires (1)         55:9;59:2,16;60:6;         20 (8)         3:00 (1)           77:18;80:19         within (7)         65:5;73:12         19;75:7,13;77:3,5         30 (6)           ways (3)         within (7)         65:5;73:12         200 (1)         74:19           yeather (1)         59:25;60:25;69:21;         70:12         72:14;74:6         48:20         20:1;41:14;54:21;           weatherization (2)         without (2)         Z         2011 (1)         31st (1)           website (1)         51:18         61:16;67:25;68:22         2011 (1)         31st (1)           week (9)         work (10)         24:2         2019 (2)         328 (1)           6:3;15:23;20:8;         4:8;7:19;26:13;         24:2         3:6;8:5         48:17           59:19;60:11;63:1         46:9;65:18;67:6;78:2         1<	7:15 waters (1)	winds (1) 27:18	<b>year (12)</b> 3:12,16;4:12;7:22;		3 (5)
way (12)         35:22,22,72:2,2,8         years (17)         78:12         28:6         3,500 (1)         28:16         3,500 (1)         28:16         3,500 (1)         28:16         3,500 (1)         28:16         3,500 (1)         28:18         41:11         35:22,22:72:2,28         41:11         35:00 (1)         28:18         35:00 (1)         28:18         41:11         35:00 (1)         28:18         35:00 (1)         28:18         3:00 (1)         74:19         3:00 (1)         74:19         3:00 (1)         74:19         3:00 (1)         74:19         3:00 (1)         74:19         3:00 (1)         74:19         3:00 (1)         74:19         3:00 (1)         74:19         3:00 (1)         74:19 <t< td=""><td>7:15 waters (1) 38:5</td><td>winds (1) 27:18 wind-type (1)</td><td>year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1;</td><td>2 (7)</td><td><b>3 (5)</b> 16:1;48:13,13;</td></t<>	7:15 waters (1) 38:5	winds (1) 27:18 wind-type (1)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1;	2 (7)	<b>3 (5)</b> 16:1;48:13,13;
3:21;7:2;18:20;         39:24;42:2;51:19;         31:6         27:11;49:1;54:1,22;         28:18;75:9         35:00 (1)           58:5,24;60:1;61:23;         withs (1)         28:18         61:1;62:8,19;63:22;         20:12;36:24;45:19,         74:19           ways (3)         within (7)         20:12;22:20;26:3;         York (2)         200 (1)         20:1;41:14;54:21;           weather (1)         59:25;60:25;69:21;         70:12         72:14;74:6         48:20         20:1;41:14;54:21;           weatherization (2)         without (2)         Z         2008 (1)         30,000 (1)           10:18;11:2         without (2)         Z         2008 (1)         30,000 (1)           website (1)         word (1)         51:18         61:16;67:25;68:22         2011 (1)         31st (1)           si;15:23;20:8;         51:18         61:16;67:25;68:22         2012 (1)         328 (1)           week (9)         4:8;7:19;26:13;         24:2         2019 (2)         3280 (1)           6:3;15:23;20:8;         4:8;7:19;26:13;         24:2         2019 (2)         3280 (1)           weeks (1)         44:23         45:19;63:24:11         45:25         1         2030 (2)         36 (1)           weighing (1)         4:20;23:16;24:11         60:12	7:15 waters (1) 38:5 watt (1)	winds (1) 27:18 wind-type (1) 31:13	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16;	<b>2 (7)</b> 16:1;48:22;59:13;	3 (5) 16:1;48:13,13; 59:13;80:20
39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 within (7) 20:12;22:20;26:3; 85:9;59:2,16;60:6; 10:15;82:26:2 20:12;22:20;26:3; 70:12 20:12;36:24;45:19, 19;75:7,13;77:3,5 20:1;41:14;54:21; 59:25;60:25;69:21; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:22:20;26:3; 70:12 20:12;12:12:20:20:10; 72:14;74:6 20:11;11:1 2:11;12 2:11:12 2:12:12:12:12:12:12:12:12:12:12:12:12:12	7:15 waters (1) 38:5 watt (1) 45:7	winds (1) 27:18 wind-type (1) 31:13 WINKA (5)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22;	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1)
58:5,24;60:1;61:23;         wires (1)         55:9;59:2,16;60:6;         20 (8)         3:00 (1)         74:19           ways (3)         within (7)         28:18         61:1;62:8,19;63:22;         20:12;36:24;45:19, 19;75:7,13;77:3,5         30 (6)           weather (1)         29:25;60:25;69:21; 70:12         York (2)         200 (1)         20:1;41:14;54:21; 55:21;56:25;77:4           weatherization (2)         without (2)         Z         2008 (1)         30;000 (1)         74:19           website (1)         50:1         51:18         61:16;67:25;68:22         2011 (1)         31st (1)         32:6           week (9)         work (10)         20:13;40:24;34:4         30:16;31:1;34:21; 46:9;55:18;67:6;78:2         44:7         48:19           59:19;60:11;63:1         46:9;65:18;67:6;78:2         1         2019 (2)         3280 (1)         330,000 (1)           weeks (1)         44:23         46:9;65:18;67:6;78:2         1         20:30 (2)         36 (1)           weigh (1)         Workforce (3)         4:20;23:16;24:11         25:22;37:18;59:13;         20:30 (2)         36 (1)           61:25         3:25;47;17;54,7;         47:17         2040 (2)         4(2)           weighs (3)         7:3;22:15;35:13,18;         47:17         2040 (2)         4(2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6
77:18;80:19         28:18         61:1;62:8,19;63:22;         20:12;36:24;45:19, 19;75:7,13;77:3,5         74:19           ways (3)         within (7)         65:5;73:12         200 (1)         20:12;41:14;54:21;           weather (1)         59:25;60:25;60:25;69:21;         70:12         200 (1)         20:13;77:3,5         30 (6)           weather (1)         59:25;60:25;60:25;69:21;         72:14;74:6         48:20         55:21;56:25;77:4         55:21;56:25;77:4           weatherization (2)         without (2)         Z         2008 (1)         30,000 (1)           website (1)         word (1)         zero (3)         53:22         37:2           sil week (9)         work (10)         zoning (1)         44:7         48:19           63;15:23;20:8;         48;719;26:13;         24:2         2019 (2)         3280 (1)           25:13;40:2;43:4;         30:16;31:1;34:21;         46:9;65:18;67:6;78:2         1         2023 (1)         330,000 (1)           weeks (1)         Workforce (3)         19:23;21:13;22:13;         2030 (2)         36 (1)           weighing (1)         4:20;23:16;24:11         working (12)         60:12         12:7;15:17         4           de:25         3:25;47,17;5;4,7;         40:18         47:17         2040 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20;	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13;	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1)
ways (3)         within (7)         65:5;73:12         19;75:7,13;77:3,5         30 (6)         20:1;41:14;54:21;         30:11;58:2;62:2         30 (6)         20:1;41:14;54:21;         30 (6)         20:1;41:14;54:21;         30 (6)         20:1;41:14;54:21;         30 (6)         20:1;41:14;54:21;         30 (6)         20:1;41:14;54:21;         30 (6)         20:1;41:14;54:21;         55:21;56:25;77:4         30,000 (1)         20:1;41:14;54:21;         55:21;56:25;77:4         30,000 (1)         30,000 (1)         32:6         32:6         32:6         32:6         31st (1)         32:6         32:6         32:6         31st (1)         32:6         32:2         37:2         32:8         (1)         48:19         32:8         (1)         48:19         32:11         32:11         32:11 </td <td>7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19;</td> <td>winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6</td> <td>year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22;</td> <td>2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9</td> <td>3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11</td>	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19;	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22;	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11
30:11;58:2;62:2	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23;	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6;	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1)
weather (1)         59:25;60:25;69:21;         72:14;74:6         48:20         55:21;56:25;77:4           45:18         70:12         2008 (1)         30,000 (1)           weatherization (2)         without (2)         Z         53:16         32:6           10:18;11:2         44:8;79:23         2011 (1)         31st (1)           website (1)         word (1)         51:18         61:16;67:25;68:22         2012 (1)         328 (1)           week (9)         work (10)         zoning (1)         44:7         48:19           25:13;40:2;43:4;         30:16;31:1;34:21;         30:68:5         48:17           59:19;60:11;63:1         46:9;65:18;67:6;78:2         1         2023 (1)         330,000 (1)           weeks (1)         24:14         2023 (1)         330,000 (1)         22:17         22:16           44:23         4:20;23:16;24:11         25:22;37:18;59:13;         3:20;21:22         53:19           weighing (1)         working (12)         3:25;4:7,17;5:4,7;         1,001.8 (1)         2040 (2)         4(2)           weighs (3)         7:23;22:15;35:13,18;         47:17         26:3;60:18         4(2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22;	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19,	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19
45:18       70:12       2008 (1)       30,000 (1)         weatherization (2)       without (2)       Z       53:16       32:6         10:18;11:2       44:8;79:23       2011 (1)       31st (1)         website (1)       word (1)       zero (3)       53:22       37:2         5:1       51:18       61:16;67:25;68:22       2012 (1)       328 (1)         week (9)       work (10)       zoning (1)       44:7       48:19         6:3;15:23;20:8;       4:8;7:19;26:13;       24:2       2019 (2)       3280 (1)         25:13;40:2;43:4;       30:16;31:1;34:21;       3:6;8:5       48:17         59:19;60:11;63:1       46:9;65:18;67:6;78:2       1       2023 (1)       330,000 (1)         weeks (1)       24:14       1 (7)       2030 (2)       36 (1)         weigh (1)       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       53:19         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)         weighing (1)       working (12)       60:12       12:7;15:17       4         61:25       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)       2040 (2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6)
weatherization (2)         without (2)         Z         53:16         32:6           10:18;11:2         44:8;79:23         2011 (1)         31st (1)           website (1)         word (1)         zero (3)         53:22         37:2           5:1         51:18         61:16;67:25;68:22         2012 (1)         328 (1)           week (9)         work (10)         zoning (1)         44:7         48:19           6:3;15:23;20:8;         4:8;7:19;26:13;         24:2         2019 (2)         3280 (1)           25:13;40:2;43:4;         30:16;31:1;34:21;         3:6;8:5         48:17           59:19;60:11;63:1         46:9;65:18;67:6;78:2         1         2023 (1)         330,000 (1)           weeks (1)         24:14         1 (7)         2030 (2)         36 (1)           44:23         24:14         1 (7)         2030 (2)         36 (1)           weigh (1)         4:20;23:16;24:11         25:22;37:18;59:13;         3:20;21:22         53:19           weighing (1)         60:12         12:7;15:17         4           61:25         3:25;4:7,17;5:4,7;         1,001.8 (1)         2040 (2)           weighs (3)         7:23;22:15;35:13,18;         47:17         26:3;60:18         4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3;	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21;
10:18;11:2       44:8;79:23       2011 (1)       31st (1)         website (1)       5:1       51:18       61:16;67:25;68:22       2012 (1)       328 (1)         week (9)       work (10)       zoning (1)       44:7       48:19         6:3;15:23;20:8;       4:8;7:19;26:13;       24:2       2019 (2)       3280 (1)         25:13;40:2;43:4;       30:16;31:1;34:21;       30:16;31:1;34:21;       3:6;8:5       48:17         59:19;60:11;63:1       46:9;65:18;67:6;78:2       1       2023 (1)       330,000 (1)         weeks (1)       24:14       1 (7)       2030 (2)       36 (1)         weigh (1)       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       53:19         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)       53:19         weighing (1)       3:25;4:7,17;5:4,7;       60:12       1:27;15:17       4         61:25       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)       4(2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4(2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21;	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4
website (1)         word (1)         zero (3)         53:22         37:2           5:1         51:18         61:16;67:25;68:22         2012 (1)         328 (1)           week (9)         work (10)         zoning (1)         44:7         48:19           6:3;15:23;20:8;         4:8;7:19;26:13;         24:2         2019 (2)         3280 (1)           25:13;40:2;43:4;         30:16;31:1;34:21;         30:16;31:1;34:21;         3:6;8:5         48:17           59:19;60:11;63:1         46:9;65:18;67:6;78:2         1         2023 (1)         330,000 (1)           weeks (1)         24:14         1 (7)         2030 (2)         36 (1)           weigh (1)         4:20;23:16;24:11         25:22;37:18;59:13;         3:20;21:22         53:19           weighing (1)         3:25;4:7,17;5:4,7;         60:12         12:7;15:17         4           61:25         3:25;4:7,17;5:4,7;         1,001.8 (1)         2040 (2)         4(2)           weighs (3)         7:23;22:15;35:13,18;         47:17         26:3;60:18         4(2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1)
5:1       51:18       61:16;67:25;68:22       2012 (1)       328 (1)         week (9)       work (10)       44:7       48:19         6:3;15:23;20:8;       4:8;7:19;26:13;       24:2       2019 (2)       3280 (1)         25:13;40:2;43:4;       30:16;31:1;34:21;       30:16;31:1;34:21;       3:6;8:5       48:17         59:19;60:11;63:1       46:9;65:18;67:6;78:2       1       2023 (1)       330,000 (1)         weeks (1)       24:14       22:17       22:16         44:23       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       36 (1)         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)       53:19         weighing (1)       working (12)       60:12       12:7;15:17       4         61:25       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6
week (9)       work (10)       zoning (1)       44:7       48:19         6:3;15:23;20:8;       4:8;7:19;26:13;       24:2       2019 (2)       3280 (1)         25:13;40:2;43:4;       30:16;31:1;34:21;       36;8:5       48:17         59:19;60:11;63:1       46:9;65:18;67:6;78:2       1       2023 (1)       330,000 (1)         weeks (1)       24:14       1 (7)       2030 (2)       36 (1)         weigh (1)       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       53:19         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)       53:19         weighing (1)       61:25       3:25;4:7,17;5:4,7;       60:12       12:7;15:17       4         61:25       3:25;4:7,17;5:4,7;       7:23;22:15;35:13,18;       47:17       2040 (2)       4(2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4(2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1)
6:3;15:23;20:8; 4:8;7:19;26:13; 24:2 2019 (2) 3:6;8:5 48:17   59:19;60:11;63:1 46:9;65:18;67:6;78:2 1 2023 (1) 330,000 (1)  weeks (1) 44:23 workforce (3) 4:20;23:16;24:11 4:20;23:16;24:11 working (1) 61:25 weighs (3) 4:25;4:7,17;5:4,7; 7:23;22:15;35:13,18; 47:17 26:3;60:18 4:20;23:16;24:17 4:20;23:16;24:10 4:20;23:16;24:10 4:20;23:16;24:10 4:20;23:16;24:10 4:20;23:16;24:10 4:20	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z zero (3)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2
25:13;40:2;43:4; 59:19;60:11;63:1 46:9;65:18;67:6;78:2  weeks (1) 44:23 weigh (1) 75:19 Weighing (1) 61:25 weighs (3)  20:16;31:1;34:21; 46:9;65:18;67:6;78:2  1 2023 (1) 22:17 22:16 22:16 22:17 2030 (2) 36 (1) 19:23;21:13;22:13; 25:22;37:18;59:13; 25:22;37:18;59:13; 47:17  2040 (2) 4(2)  weighs (3)  3:6;8:5 48:17 330,000 (1) 22:17 20:16 20:17 20:16 20:17 20:18 40:17 30,000 (1) 22:17 20:18 20:19 20:19 20:10 20:1	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1)
59:19;60:11;63:1       46:9;65:18;67:6;78:2       1       2023 (1)       330,000 (1)         weeks (1)       22:17       22:16         44:23       24:14       1 (7)       2030 (2)       36 (1)         weigh (1)       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       53:19         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)       2035 (2)         weighing (1)       working (12)       60:12       12:7;15:17       4         61:25       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19
weeks (1)       workers (1)       22:17       22:16         44:23       24:14       1 (7)       2030 (2)       36 (1)         weigh (1)       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       53:19         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)       2035 (2)       400;27:15:17       4         weighing (1)       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)       4       4       4         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8;	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13;	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1)
44:23       24:14       1 (7)       2030 (2)       36 (1)         weigh (1)       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       53:19         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)       2035 (2)       4         weighing (1)       working (12)       60:12       12:7;15:17       4         61:25       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4;	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21;	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17
weigh (1)       Workforce (3)       19:23;21:13;22:13;       3:20;21:22       53:19         75:19       4:20;23:16;24:11       25:22;37:18;59:13;       2035 (2)         weighing (1)       working (12)       60:12       12:7;15:17       4         61:25       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1)
75:19  weighing (1) 61:25  weighs (3)  4:20;23:16;24:11  working (12) 60:12  60:12  12:7;15:17  4  4(2)  25:22;37:18;59:13; 60:12  1,001.8 (1) 2040 (2) 26:3;60:18  4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16
weighing (1)       working (12)       60:12       12:7;15:17       4         61:25       3:25;4:7,17;5:4,7;       1,001.8 (1)       2040 (2)         weighs (3)       7:23;22:15;35:13,18;       47:17       26:3;60:18       4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1) 44:23	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1) 24:14	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2  1 1 (7)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17 2030 (2)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16 36 (1)
61:25 3:25;4:7,17;5:4,7; 1,001.8 (1) 2040 (2) 4 (2) 4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1) 44:23 weigh (1)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1) 24:14 Workforce (3)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2  1 (7) 19:23;21:13;22:13;	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17 2030 (2) 3:20;21:22	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16 36 (1)
61:25 3:25;4:7,17;5:4,7; 1,001.8 (1) 2040 (2) weighs (3) 7:23;22:15;35:13,18; 47:17 26:3;60:18 4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1) 44:23 weigh (1) 75:19	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1) 24:14 Workforce (3) 4:20;23:16;24:11	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2  1 (7) 19:23;21:13;22:13;	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17 2030 (2) 3:20;21:22 2035 (2)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16 36 (1) 53:19
weighs (3) 7:23;22:15;35:13,18; 47:17 26:3;60:18 4 (2)	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1) 44:23 weigh (1) 75:19 weighing (1)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1) 24:14 Workforce (3) 4:20;23:16;24:11 working (12)	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2  1 1(7) 19:23;21:13;22:13; 25:22;37:18;59:13; 60:12	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17 2030 (2) 3:20;21:22 2035 (2) 12:7;15:17	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16 36 (1) 53:19
	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1) 44:23 weigh (1) 75:19 weighing (1) 61:25	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1) 24:14 Workforce (3) 4:20;23:16;24:11 working (12) 3:25;4:7,17;5:4,7;	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2  1 1(7) 19:23;21:13;22:13; 25:22;37:18;59:13; 60:12	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17 2030 (2) 3:20;21:22 2035 (2) 12:7;15:17 2040 (2)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16 36 (1) 53:19
	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1) 44:23 weigh (1) 75:19 weighing (1) 61:25	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1) 24:14 Workforce (3) 4:20;23:16;24:11 working (12) 3:25;4:7,17;5:4,7; 7:23;22:15;35:13,18;	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2  1 1 (7) 19:23;21:13;22:13; 25:22;37:18;59:13; 60:12 1,001.8 (1)	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17 2030 (2) 3:20;21:22 2035 (2) 12:7;15:17 2040 (2)	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16 36 (1) 53:19
	7:15 waters (1) 38:5 watt (1) 45:7 way (12) 3:21;7:2;18:20; 39:24;42:2;51:19; 58:5,24;60:1;61:23; 77:18;80:19 ways (3) 30:11;58:2;62:2 weather (1) 45:18 weatherization (2) 10:18;11:2 website (1) 5:1 week (9) 6:3;15:23;20:8; 25:13;40:2;43:4; 59:19;60:11;63:1 weeks (1) 44:23 weigh (1) 75:19 weighing (1) 61:25 weighs (3)	winds (1) 27:18 wind-type (1) 31:13 WINKA (5) 35:22,22;72:2,2,8 winners (1) 31:6 wires (1) 28:18 within (7) 20:12;22:20;26:3; 59:25;60:25;69:21; 70:12 without (2) 44:8;79:23 word (1) 51:18 work (10) 4:8;7:19;26:13; 30:16;31:1;34:21; 46:9;65:18;67:6;78:2 workers (1) 24:14 Workforce (3) 4:20;23:16;24:11 working (12) 3:25;4:7,17;5:4,7; 7:23;22:15;35:13,18;	year (12) 3:12,16;4:12;7:22; 8:18;12:10;42:9;50:1; 54:3;55:16;68:16; 74:3 years (17) 6:19;9:4;20:13; 27:11;49:1;54:1,22; 55:9;59:2,16;60:6; 61:1;62:8,19;63:22; 65:5;73:12 York (2) 72:14;74:6  Z  zero (3) 61:16;67:25;68:22 zoning (1) 24:2  1 1 (7) 19:23;21:13;22:13; 25:22;37:18;59:13; 60:12 1,001.8 (1) 47:17	2 (7) 16:1;48:22;59:13; 60:15;75:15;76:22; 78:12 2,000 (2) 28:18;75:9 20 (8) 20:12;36:24;45:19, 19;75:7,13;77:3,5 200 (1) 48:20 2008 (1) 53:16 2011 (1) 53:22 2012 (1) 44:7 2019 (2) 3:6;8:5 2023 (1) 22:17 2030 (2) 3:20;21:22 2035 (2) 12:7;15:17 2040 (2) 26:3;60:18	3 (5) 16:1;48:13,13; 59:13;80:20 3,000 (1) 28:6 3,500 (1) 41:11 3:00 (1) 74:19 30 (6) 20:1;41:14;54:21; 55:21;56:25;77:4 30,000 (1) 32:6 31st (1) 37:2 328 (1) 48:19 3280 (1) 48:17 330,000 (1) 22:16 36 (1) 53:19  4 4 (2)

BPU MASTER PLAN
October 10, 2018

4,000-pound (1) 76:3 40 (7) 25:18:40:5:49:1; 59:16:60:662:877:6 400 (3) 10:15:48:7:76:18 400-watt (1) 48:19  48,000 (1) 7:18  5  5  5(1) 60:12 5,000 (1) 8:17 5:00 (2) 4:25:59:21 50 (4) 21:21:55:18:74:9; 77:6  6  6,000 (2) 25:19:40:5 6  6,000 (2) 25:19:40:5 6  6,000 (1) 74:17 60 (1) 77:47 60 (1) 77:4 65:000 (1) 48:13 65:000 (1) 77:17 64:4 65:000 (1) 12:9 6560 (1) 48:17  7	
5 25:17;40:4 96 (1) 13:18  5 (1) 60:12 5,000 (1) 8:17 5:00 (2) 4:25;59:21 50 (4) 21:21;55:18;74:9; 77:6 500 (8) 47:19:20:21,22; 48:4,6;76:25;78:13 50-kilowatt (1) 48:23  6  6,000 (2) 25:19;40:5 64 (1) 48:13 6:00 (1) 74:17 60 (1) 77:4 625,000 (1) 12:9 6560 (1) 48:17  7	
5 (1) 60:12 5,000 (1) 8:17 5:00 (2) 4:25;59:21 50 (4) 21:21;55:18;74:9; 77:6 500 (8) 47:19,20,21,22; 48:46;76:25;78:13 50-kilowatt (1) 45:5 525 (1) 48:23  6  6,000 (2) 25:19;40:5 6.4 (1) 48:13 6:00 (1) 74:17 60 (1) 77:4 625,000 (1) 12:9 6560 (1) 48:17  7	
6,000 (2) 25:19;40:5 6.4 (1) 48:13 6:00 (1) 74:17 60 (1) 77:4 625,000 (1) 46:4 65,000 (1) 12:9 6560 (1) 48:17	
25:19;40:5 6.4 (1) 48:13 6:00 (1) 74:17 60 (1) 77:4 625,000 (1) 46:4 65,000 (1) 12:9 6560 (1) 48:17	
7:30 (2) 81:9,16 70 (1) 12:2 700 (1) 8:19 78 (1) 48:1 7th (1) 3:3	
8	