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HEARING OF THE DRAFT STATE ENERGY PLAN

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Hunter College, 69th Street
New York, New York

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11

August 21, 2009
11:00 a.m.

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B E F O R E:

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THOMAS CONGDON, CHAIRMAN

17

ROBERT CALLENDER

18

GARRY BROWN

19

ALEXANDER GRANNIS

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JUDITH ENCK

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1 HEARING

2 MR. CONGDON: Good morning,
3 everyone. My name is Tom Congdon and I
4 am the chair of the New York State
5 Energy Planning Board. I'd like to
6 welcome you all to the second public
7 statement hearing on the Draft State
8 Energy Plan.

9 I'd also like to thank our hosts
10 at Hunter College and our other members
11 of the Planning Board who are here with
12 me today. Starting at my far left,
13 Judith Enck is our Deputy Secretary for
14 the Environment in the Governor's
15 Office; Pete Grannis is the Commissioner
16 of the Department of Environmental
17 Conservation; Garry Brown is the Chair
18 of the Public Service Commission; and
19 Bob Callender is here from NYSERDA as
20 the designee for our NYSERDA rep Frank
21 Murray.

22 Most important, I'd like to thank
23 you for coming here today. We're here
24 to listen to you. For the past year and
25 a half, the Planning Board has worked

1 HEARING

2 with the staffs of ten agencies and
3 public authorities to develop the State
4 Energy Plan.

5 The planning process commenced in
6 April 2008 when Governor Paterson issued
7 Executive Order No. 2 which created this
8 Planning Board and charged us with
9 developing the Plan.

10 On August 10th the Planning Board
11 released the Draft Plan on its website
12 nysenergyplan.com, and we commenced a
13 60-day written comment report and the
14 public hearing phase of developing the
15 final Plan. Written comments are due on
16 October 19th, and we will release the
17 plan, the final Plan, by the end of the
18 year.

19 The Plan's objectives are to
20 first, ensure our energy systems are
21 reliable over a 10-year planning
22 horizon; second, to reduce greenhouse
23 gas emissions; third, to stabilize
24 energy costs and improve economic
25 competitiveness in the State; fourth,

1 HEARING

2 reduce public health and environmental
3 risks associated with our energy
4 systems; and fifth, to improve the
5 State's energy security.

6 The plan modeled and considered
7 various approaches to achieving these
8 objectives and arrived at a number of
9 strategies outlined in the Plan. First
10 and foremost, the Plan identified energy
11 efficiency as a priority resource to
12 meeting our multiple objectives.

13 Second, the Plan seeks to develop
14 in-State energy resources, largely
15 renewable resources and also in-State
16 national gas resources in an
17 environmentally responsible manner.

18 Third, the Plan projects
19 infrastructure needs, both to support
20 the clean energy technologies of the
21 future and to ensure reliability.

22 Fourth, the Plan identifies
23 opportunities to capitalize on existing
24 academic and research strengths in the
25 State and to speed up the

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2 commercialization of new energy
3 technologies.

4 The Plan also identifies needs
5 for a clean energy workforce and
6 identifies new opportunities for
7 training for clean energy jobs, and
8 we've also identified economic
9 development strategies to help attract
10 those industries that will thrive in a
11 carbon-constrained economy.

12 Last, the Plan recognizes that
13 none of this can be fully achieved
14 without working with other levels of
15 government and communities to achieve
16 our goals.

17 This public hearing is a
18 testament to the desire to work with and
19 learn from communities that are affected
20 by energy decisions and energy policies.

21 This is one of nine public
22 hearing sessions we will hold around the
23 State to hear your comments. A full
24 hearing schedule is available on our
25 website.

1 HEARING

2 My job today is to gather
3 information for the Planning Board to
4 consider, and again, we are very
5 appreciative of your attendance today.

6 The process is simple. Those who
7 want to comment at this hearing can ask
8 to sign in upon approval today. I have
9 a list of names here. Your name will be
10 called one at a time to speak. Please
11 come to the microphone here in the
12 aisle. Come to the microphone when your
13 name is called.

14 A court reporter is here to
15 provide us with a verbatim transcript.
16 It's very important that there be only
17 one speaker at a time so the reporter
18 can hear clearly. Speakers should
19 address their comments in the direction
20 of the microphone, and please make an
21 effort to speak clearly and slowly.

22 It's very important that those in
23 the audience be courteous to the speaker
24 so his or her comments can be
25 transcribed accurately. All speakers

1 HEARING
2 are asked to focus on issues that
3 pertain to the Draft Plan. Your
4 comments should be as succinct as
5 possible so we can hear from as many
6 people as possible.

7 We have set a five-minute
8 deadline for that purpose, and one of my
9 colleagues, Jennifer Kozlowski
10 is on the end sitting next to the
11 microphone. She'll give you a gentle
12 reminder if you are getting close to the
13 five minutes or if you go over.

14 Those who want to comment but do
15 not want to speak publicly or do not get
16 a chance to do so can also submit
17 written comments via our Energy Plan
18 website. All public comments, whether
19 stated at a hearing like this one or
20 sent into the website, will be reported
21 to the Energy Planning Board for its
22 consideration and they all count equally
23 regardless of how they were received.

24 With that, does anyone have any
25 questions about the process?

1 HEARING

2 (No response.)

3 MR. CONGDON: So we can get
4 started. Our first statement is from
5 Paul Vitale from Business Council of
6 Westchester. Paul?

7 MR. VITALE: Good morning. I'm
8 Paul Vitale, Vice President, Government
9 and Community Relations for the Business
10 Council of Westchester. I appreciate
11 the opportunity to address the Planning
12 Board today at this hearing.

13 The Business Council of
14 Westchester is the county's largest and
15 most influential business organization.
16 We represent approximately 1200 members
17 ranging in size from multi-national
18 corporations and mid-sized businesses to
19 professional firms, not-for-profit
20 organizations, and small business owners
21 in every sector of the county's diverse
22 economy.

23 The Governor's Draft 2009 New
24 York State Energy Plan contains many
25 positive initiatives that are good for

1 HEARING
2 business and good for New Yorkers.
3 Among the items it supports are
4 revitalized power plant citing law,
5 construction of new transmission
6 infrastructure that utilizes existing
7 right of way and additional investment
8 in research and development of renewable
9 energy and workforce training for a new
10 generation of green-collar jobs. These
11 are all positive developments which our
12 business organization clearly endorses.

13 Despite these many positive
14 developments we are extremely
15 disappointed that you have decided you
16 want to shut down the Indian Point
17 Nuclear Power Plant. The Business
18 Council of Westchester believe that this
19 is a short-sided recommendation, which
20 would create a devastating impact on our
21 community, as well as for all New
22 Yorkers.

23 First, Indian Point is a safe
24 facility. The preliminary State Energy
25 Plan cites safety as a top reason for

1 HEARING

2 opposing the State's -- the plant's
3 continued operations. However, for our
4 members who live and work within the
5 vicinity of the plant, they know that
6 Indian Point is indeed a safe facility.

7 They are -- they see the plant as
8 vital fortress, a virtual fortress, and
9 are reassured by the heavily armed
10 presence throughout the plant's
11 perimeter and even outside it. They
12 know that the plant is the most
13 scrutinized of all U.S. nuclear power
14 plants.

15 Safety is always the top priority
16 for all involved at Indian Point, and
17 they know that the federal government's
18 independent safety experts just last
19 week attested to the safety and security
20 of the facility by issuing a favorable
21 final safety evaluation report. This is
22 a significant and important step forward
23 in the plant renewal process -- license
24 renewal process.

25 Next I want to talk about Indian

1 HEARING

2 Point as a good environmental steward.
3 Indian Point is not just a safe
4 facility, it is key to New York's
5 success under the regional gas --
6 greenhouse gas initiative and will be a
7 critical factor towards ensuring
8 compliance under the federal cap and
9 trade legislation.

10 Indian Point produces more than
11 2,000 megawatts of power, clean and
12 virtually emissions-free energy. It is
13 a critical component to New York
14 achieving the distinction of having one
15 of the lowest per capita carbon
16 emissions counts in the nation.

17 Replacing Indian Point's energy
18 through conservation, efficiencies, and
19 construction of a natural gas facility
20 is unrealistic and wishful thinking.
21 Even with conservation efficiencies
22 fully employed in New York, the New York
23 State Independent Systems Operator
24 continues to forecast growing energy
25 demands throughout this year and into

1 HEARING

2 the future, and it will take a minimum
3 of four natural-fired gas plants to make
4 up for Indian Point's power. This will
5 result in more airborne pollutants,
6 which will force for a negative impact
7 in our community.

8 Now I want to touch on Indian
9 Point as an economic engine. Now that
10 the State independent safety experts
11 have further judged Indian Point to be
12 safely operated to the highest
13 standards, we most focus on the economic
14 benefits of this plant.

15 Conservatively Indian Point
16 accounts for \$1 billion a year in local
17 economic activity. Studies have shown
18 that closing Indian Point would lead to
19 more than 11,000 job losses and a total
20 loss in the region exceeding \$2 million
21 in cumulative lost wages.

22 A study conducted by the Business
23 Council of Westchester and three of our
24 business organizations and released last
25 year indicates that closing Indian Point

1 HEARING

2 would lead to energy costs rising by as
3 much as 150 percent. With New York's
4 energy cost already well above the
5 national average, a factor routinely
6 cited by our members as one of the key
7 stumbling blocks in their efforts to
8 grow and prosper, forcing utility rates
9 to rise by 150 percent would bring about
10 economic devastation to the entire
11 downstate region, not just Westchester.

12 In conclusion, there is much in
13 the Plan to praise and recognize, but
14 the Plan's focus on shutting down Indian
15 Point will bring about far-reaching
16 implications that will adversely affect
17 all New Yorkers. Moreover, no realistic
18 or credible alternatives to replacing
19 Indian Point have been made in the wake
20 of this study. This is both
21 irresponsible and ill-timed.

22 To say that Indian Point is the
23 backbone of our electricity network and
24 a critical economic engine for the
25 Hudson Valley's economy would be a vast

1 HEARING

2 understatement. Given the current
3 economy with high prices and record job
4 losses, who in their right mind would
5 support closing a safely run power plant
6 that emits virtually no carbon into the
7 atmosphere and employs hundreds of
8 people who keep it safe? Thank you.

9 MR. CONGDON: Thank you, Paul.
10 Next speaker is James Van Nostrand from
11 Pace Energy.

12 MR. VAN NOSTRAND: Good morning.
13 I'm Jamie Van Nostrand, the executive
14 director of the Pace Energy and Climate
15 Center. We're formerly known as the
16 Pace Energy Project. We've been around
17 for 20 years and have been very active
18 in the energy environmental issues in
19 New York, promoting energy efficiency,
20 renewable distributed generation. Our
21 latest project is working on the
22 biofuels road map. We're the lead
23 institution on the team with the
24 biofuels road map.

25 We really appreciate the

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2 opportunity to address the board. I
3 think we appreciate the really
4 outstanding work that, I think, has been
5 done and the institutions that are
6 represented and included in the State
7 Energy Plan, together with the hard work
8 that's been done by Tom Congdon and Sarah
9 Osgood, John Williams, Judith and Peter
10 Iwanowicz.

11 I think we feel generally very
12 good about the caliber and capability of
13 the officials at the State level who are
14 in charge of our energy environmental
15 program. The Draft State Energy Plan,
16 we think, does a really good job of
17 laying out the broad structure,
18 principles, and policies for us to have
19 a reliable and sustainable energy
20 infrastructure and supply going forward.

21 I got to say we're very pleased
22 with the Governor's Executive Order No.
23 24 that was issued a couple weeks ago in
24 terms of endorsing an '80 by 50,' a
25 reduction in greenhouse gases by 2050.

1 HEARING

2 I think it's very important that we view
3 this Energy Plan -- although it's a
4 ten-year scope for the Energy Plan --
5 that we view it in the context of
6 instituting achievable lower carbon
7 levels and get a meaningful reduction in
8 greenhouse gas emissions. So we're
9 going to need to address the climate
10 change issues.

11 Another aspect of that is the
12 climate action plan and creating of the
13 climate change council, we think, is
14 another very important piece. So
15 that -- and I think along with that is
16 making sure that climate action council
17 has the resources to be able to do the
18 modeling and analysis that are going to
19 be necessary to produce a good climate
20 action plan and to be able to produce
21 the metrics so that we can gauge from
22 time to time how we're doing in
23 implementing that climate action plan.
24 That's just a great move that -- in
25 terms of exercising the issue upon the

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2 '80 by 50' issue.

3 We know from some of the meetings
4 we have had that there's been a lot of
5 modeling done already on that issue, and
6 I think it's great that the Energy Plan
7 is evaluated in that context of this
8 bigger, longer-term objective.

9 I guess turning to some of our
10 concerns about the State Energy Plan --
11 and again, I think it needs to be
12 evaluated in the context of our --
13 generally we think it's a great policy
14 and represents a lot of hard work by a
15 lot of good people.

16 What we're concerned about is
17 sort of the -- it's never been a problem
18 of identifying these bigger policy
19 objectives in the longer-term goals. I
20 guess the concern we have is the sense
21 of urgency when it comes down to
22 actually implementing these objectives
23 and the plan.

24 I mean, the energy efficiency
25 portfolios counted at '15 by 15' is a

1 HEARING

2 great objective. The RPS of 25 by '13,
3 now growing 30 by '15, again, these are
4 really good goals. I guess our concern
5 is the pace at which these measures are
6 being implemented.

7 I think on the energy efficiency,
8 for example, when you look at the fact
9 that the New York ISO reliability need
10 assessment is anticipating only 28
11 percent of that energy efficiency can be
12 counted on showing up is some reflection
13 of the sort of pace at which these
14 programs are being approved and funded.

15 I understand there's, you know,
16 some measurement and evaluation issues
17 that the New York ISO has. There's
18 always that conservatism of the power
19 engineers not being sure that those
20 energy efficiencies are going to
21 actually show up, but I think the fact
22 that less than a third of what we're
23 projecting by '15 by 15' is being counted
24 upon by the New York ISO is pretty
25 revealing that we're not moving fast

1 HEARING

2 enough and that the sense of urgency
3 that's embodied by the Government
4 Executive Order, including '80 by 50', is
5 not being sort of carried through at
6 the -- when it comes to actually
7 implementing the programs to get us
8 there.

9 I think '30 by 15' as well -- I
10 mean, the Governor announced back in
11 February that we're going to accelerate
12 to new portfolio standard to '30 by 15'
13 and that has still not been formally
14 adopted as the policy of the State, and
15 it may not happen until the end of the
16 year.

17 One of the things you look at in
18 the State Energy Plan is it's actually
19 not all that ambitious a goal when you
20 look at the net megawatts that are
21 actually stimulated by even a '30 by 15'
22 standard. It's not all that aggressive.

23 I think another thing to look at
24 in the State Energy Plan are the
25 wholesale rate impacts of implementing

1 HEARING
2 energy efficiency and RPS, the fact that
3 they will produce a reduction in the
4 wholesale prices and those reductions
5 more than offset the impact of higher
6 prices at the retail level is -- makes
7 it all the more disturbing we can't get
8 there more quickly.

9 Obviously rate impacts are
10 something to be concerned about when
11 implementing the energy efficiency and
12 renewable portfolio standard, but if
13 they are more than offset by reductions
14 in the wholesale market, given the
15 market clearing price mechanism we have
16 in New York, why can't we, you know,
17 move more quickly? And I think
18 that's -- that sort of jumps out at you
19 from the State Energy Plan as well.

20 I understand the tremendous
21 workload of the Public Service
22 Commission. I was at the hearing a
23 couple weeks ago when they rolled out
24 the smart grid program. I think that
25 was just an amazing amount of work in a

1 HEARING

2 very short amount of time and allows New
3 York ratepayers to take advantage of the
4 Economic Stimulus Package, and it's
5 issues like that that continue to come
6 before the PSC that represent a great
7 workload.

8 I know there has to be a balance
9 between prevision and speed and making
10 sure we're spending this money wisely.
11 I think we would urge that balance be
12 struck a little bit more in favor of
13 speed, getting the program approved, get
14 the money out the door, measure, verify,
15 and refine, but let's have the same
16 sense of urgency in implementing the
17 State Energy Plan that we have at the
18 policy level and announcing these
19 laudable and appropriate goals. Thank
20 you very much. I appreciate all the
21 good work you've done and the
22 opportunity to address the board.

23 MR. CONGDON: Thank you. Our
24 next speaker is Ross Gould from the New
25 York State Sierra Club.

1 HEARING

2 MR. GOULD: Good morning. Thank
3 you for having these hearings. As you
4 said, my name is Ross Gould and I am an
5 attorney and a member of the Sierra
6 Club's Atlantic Chapter. In addition, I
7 work with several other nonprofit
8 organizations on issues relating to
9 production and consumption of energy and
10 the environmental and public health
11 impacts of the production and
12 consumption of energy.

13 Initially I note that the State
14 Energy Plan is a welcome opportunity for
15 New York State to move forward with a
16 safe, sustainable, energy independent
17 future and can be used to stimulate
18 employment and overall economic growth,
19 and I applaud the effort that's being
20 made on that, as does the Sierra Club.

21 There are many positive aspects
22 of the Plan, including the goal of
23 attacking climate change, and we do
24 appreciate those efforts. But that
25 being said, there are numerous

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HEARING

shortcomings with the Draft State Energy Plan, including not reaching for higher energy efficiency standards and not enough reliance upon renewable energy and the failure to include options, such as tidal generation of power. For example, the East River is using tidal and that has not been mentioned in the Energy Plan.

In an effort to be brief, I will discuss three areas of concern. Written comments will be submitted to supplement this testimony, as well as I believe other people will be making comments as well on other issues.

The three issues I will touch upon are one, the State Draft Energy Plan's mistaken dependence upon producing large amounts of energy from the use of natural gas extracted from the Marcellus Shale; two, an energy future that includes nuclear electricity generation; and three, the failure of the Energy Plan to consider the

1 HEARING

2 interconnection between water and energy
3 and how the smarter water resource
4 management decisions can lead to a huge
5 decrease in energy demand.

6 Initially, I would like to state
7 that the amount of recoverable reserves
8 from the Marcellus Shale are being
9 overstated, and in fact a World Oil
10 Magazine article published earlier this
11 month states that the reserves for
12 similar shale plays have been
13 overestimated and much less is actually
14 recovered than has been estimated by the
15 industry.

16 Also, the Draft Energy Plan
17 mistakenly considers both natural gas
18 and nuclear energy to be clean sources
19 of energy. They are anything but, and
20 although many people advocate that
21 natural gas and nuclear are viable
22 options because they emit CO2 in
23 generating electricity -- sorry, less
24 CO2 in generating electricity than do
25 coal or oil, this statement only

1 HEARING

2 discusses one point of the full life
3 cycle of energy production and hides the
4 full health and environmental impacts as
5 well as the social injustice associated
6 with these processes.

7 The extraction of natural gas is
8 very dirty, and in states in which a
9 similar drilling process is used as is
10 planned in New York, a process called
11 hydraulic fracturing with horizontal
12 drilling, there are numerous cases of
13 severe illnesses from water
14 contamination and air pollution.

15 These individuals who are
16 suffering these illnesses and the water
17 contamination are individuals from
18 environmental justice communities
19 because they are residents of
20 economically depressed communities.

21 Drilling for natural gas destroys
22 air quality. In fact hydraulic
23 fracturing with horizontal drilling has
24 been taking place in Fort Worth, Texas,
25 in what is known as the Barnett Shale,

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2 which is a similar formation as what we
3 have with the Marcellus Shale.

4 A recent study of air quality at
5 Fort Worth, Texas, has shown that
6 drilling-related emissions of carbon
7 dioxide and two other major greenhouse
8 gases underlying climate change were
9 estimated to be roughly equivalent to
10 the impact from two 750 megawatt
11 coal-fired power plants.

12 This number will be -- is much
13 lower than what would result under the
14 Draft Energy Plan because the Marcellus
15 Shale is much larger, and the drilling
16 that is expected is supposed to be much
17 more intense than that which is
18 occurring in Fort Worth.

19 In addition, the same study
20 concludes that peak summertime emissions
21 of smog-forming emissions from
22 production activity in the Barnett Shale
23 are about the same as the emissions from
24 all the cars and trucks in the
25 Dallas/Fort Worth Metroplex.

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2 As documented in the Draft State
3 Energy Plan, 85 percent of New York's
4 population lives in areas that have been
5 designated as -- as not in attainment of
6 one or more of the national-based air
7 quality standards. Surely such
8 emissions as found in Dallas/Fort Worth
9 will not help decrease this number.

10 In addition, the Draft State
11 Energy Plan calls for major increase in
12 pipeline and other infrastructure for
13 bringing natural gas to downstate areas.
14 The impacts of pipelines on the
15 landscape, especially with the uniformly
16 broad sheet formation like the Marcellus
17 Shale, will be significant.

18 The vast gridwork, transmission
19 lines, pipelines, and compressor lines
20 will directly contribute to air quality
21 issues through leakage, destroy land
22 character, lead to habitat fragmentation
23 and become conduits for endangered
24 species. In addition, the placement of
25 the infrastructure is also likely to

1 HEARING

2 decrease property values.

3 Next, the Plan takes -- next the
4 Plan discusses nuclear energy, and we do
5 agree that Indian Point should be shut
6 down and we applaud you for that;
7 however, we disagree with the increase
8 in nuclear generation overall. Nuclear
9 power is not as clean as is stated.

10 One quick point I'd like to make,
11 as my time is up, is that one thing
12 that's not being considered is the
13 environmental justice impacts relating
14 to the uranium mining and milling, which
15 affects the Native American communities
16 disproportionately more than anyone, and
17 by increasing our reliance on nuclear
18 power will severely impact this
19 community. And they have had very
20 little voice in this. I realize my time
21 is up. As I said, we will be submitting
22 additional comments. I thank you.

23 MR. CONGDON: Thank you. Next
24 speaker is John Bartlik from NYU Medical
25 Center.

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2 MR. BARTLIK: Good morning. I'm
3 grateful to have this opportunity to
4 speak with you today. My name is John
5 Bartlik. I'm from NYU Langone Medical
6 Center located here in Manhattan on
7 First Avenue between 33rd and -- I mean,
8 30th and 33rd Streets. We're a large
9 health care facility as well as
10 biomedical research and medical school.

11 I'm here to talk to you about how
12 NYSERDA impacted our business, our
13 business decisions, why we think NYSERDA
14 works as far as local businesses are
15 concerned and also the city goals as
16 well as State goals and humbly suggest
17 some expansions of the programs that we
18 feel would be very helpful.

19 NYSERDA is what I believe a great
20 organization. It helped us understand
21 better how to improve our energy
22 efficiency. Their programs have helped
23 us dramatically in terms of making good
24 business decisions that have a great
25 impact on energy efficiency.

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2 Our successes so far -- well, we
3 received about over \$3 million from
4 NYSERDA and the benefit is pretty clear.
5 Since our baseline year 2005, we reduced
6 our energy consumption by 14 percent,
7 greenhouse gases down by 15 percent.

8 We are expanding this. It's
9 something we recognize that this is
10 some -- energy is really a controllable
11 cost, and we are really recognizing that
12 we need to be an environmental steward
13 and be responsible with our energy.
14 It's just very difficult sometimes to
15 make the hard decisions to really invest
16 where we need to to have those energy
17 impacts.

18 The reason -- you know, it's
19 funny that we're here talking today
20 because on the way in we were
21 implementing some recommendations and
22 programs NYSERDA helped us implement.
23 We are fuel switching and running steam
24 chillers to avoid electrical peaks. We
25 are shedding loads and trying to really

1 HEARING

2 shave our peaks and, you know, take the
3 congestion off the grid.

4 I would really be concerned where
5 we would be if NYSERDA programs weren't
6 really in place all these years helping
7 us reduce our kilowatts and energy use.
8 I'm not sure if our grid could withstand
9 a day like today.

10 NYSERDA also just helps guide us
11 and educate us. There are groups on the
12 ground everywhere. I meet NYSERDA
13 people at all of our professional
14 organization meetings and they're
15 getting the word out on a regular basis.
16 NYSERDA really has been a great
17 organization.

18 I would -- I almost -- I look at
19 it as if it's not a typical government
20 agency, it's -- it really acts very
21 efficiently, very effectively and people
22 are very responsive. The programs
23 really seem to align with our business
24 goals our local and State government
25 energy and environmental goals. I have

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2 to applaud them and I believe they're,
3 you know -- it's just a fabulous
4 organization.

5 As far as suggestions, I do
6 have -- I have 20 years experience in
7 HVAC facilities management, control
8 systems. And one of the recurring
9 themes that I've seen is -- well, excuse
10 me. Let me back up just for a second.
11 I think cogen is really part of our
12 future. Cogen is something that in an
13 urban setting could be very efficient,
14 could be in line with our city goals for
15 plan NYC Carbon Reductions, can relieve
16 the grid and can just reduce our overall
17 energy consumption.

18 I think that right now the
19 economics of cogen are very difficult.
20 It takes a great deal of investment to
21 put in a cogen plant, and so I would ask
22 that NYSERDA spend a little more time
23 researching that and researching how we
24 can use that heat most wisely and the
25 electrical generation most wisely.

1 HEARING

2 Also, from my experience I've
3 noticed that we can really help our
4 efficiency if we put some more
5 regulation and training and
6 certification on HVAC and building
7 control people. They are key to
8 efficiency. They install the systems
9 and there's really no regulation or
10 training for them that we can keep
11 control of. If we -- we insist that
12 boiler operators and chiller operators
13 have certification, but we don't with
14 HVAC people or controls people. I think
15 it would go a great, great distance if
16 we did something like that.

17 Also, our people -- our companies
18 do not have any extra funding for
19 dedicated energy professionals. A
20 dedicated energy professional in large
21 facilities is essential, and since I am
22 a dedicated energy professional and we
23 did have those reductions in '15 by 15
24 percent in a very short amount of time,
25 I -- I think that that's something that

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2

should be looked at as far as helping

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large companies with that cost or

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somehow promoting it. I thank you for

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your time. I want to thank NYSERDA for

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all the great work you've done. Thank

7

you.

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MR. CONGDON: Thank you very

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much.

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MR. GRANNIS: Thank you. I think

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NYSERDA doesn't get the attention it

12

needs to get for the work that they do.

13

They really do have the ability to

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provide and help in many, many sectors

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that are directly related to the work of

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the citing of the master plan, the

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Planning Board and Tom's work and

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ongoing efforts to reduce greenhouse

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gases and be more energy efficient. So

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thank you.

21

MR. CONGDON: Thank you. Our

22

next speaker is Joseph Colella from New

23

York Presbyterian Hospital.

24

MR. COLELLA: Good morning. I am

25

pleased to appear today and am grateful

1 HEARING

2 for the opportunity to recount for you
3 our ten-plus-year history with energy
4 savings and with NYSERDA. But first let
5 me tell you a little about New York
6 Presbyterian. New York Presbyterian is
7 the merged hospitals that we all knew
8 here in New York as New York Hospital
9 and Columbia Presbyterian Medical Center
10 that merged about ten years ago, and we
11 are the university hospitals for
12 Columbia and Cornell.

13 We encompass five hospitals: the
14 Millstein Hospital, the MS Children's,
15 the Allen Pavillion, what was New York
16 Hospital, and our Westchester division.
17 In these divisions we employ
18 approximately 16,000 people, and one of
19 five health care operations or
20 procedures are performed in one of our
21 facilities in the New York area.

22 We at New York Presbyterian have
23 participated in almost every type of
24 project the program offered. We've done
25 technical assistance, energy audits,

1 HEARING
2 peak load reduction and retro
3 commissioning, and most recently we have
4 just commissioned our new central heat
5 and power plant, CHP, a cogen plant here
6 in Manhattan, and the study, the
7 demonstration, and even a special short
8 circuit club that allowed CHP in a very
9 congested network area, that had very
10 small tolerance for short circuit
11 contribution, was also funded by
12 NYSERDA, and that allowed us to succeed
13 and get this project moving.

14 The NYSERDA funds are
15 particularly important in the evaluation
16 and the study of projects. At the
17 beginning of these projects the study,
18 the payback, the technical ability to do
19 these are not readily available until
20 you actually fund these particular
21 functions. But once that's done, then
22 it's more easy to convince
23 administration and upper management to
24 fund these, and great sums are required
25 at times to fund these projects and get

1 HEARING

2 the energy efficiency and carbon
3 reduction that can be achieved.

4 Over the last five years at New
5 York Presbyterian, we've experienced
6 over 3 and a half million dollars in
7 grants and awards from NYSERDA and we've
8 grateful for that. Without these funds
9 we would not have been able to become a
10 leader in energy awareness and cost
11 reduction.

12 This success story is a major
13 part of the reason why New York
14 Presbyterian was named Energy Star
15 partner of the year for four consecutive
16 years. If any area that I would ask the
17 Planning Board to consider, here in New
18 York the photovoltaic programs,
19 while we do have them in the menu and
20 the list of what's available, the
21 reimbursement levels are not quite what
22 some of the other states in the country
23 have done, and there's some room for
24 improvement in that.

25 Again, I thank you for the

1 HEARING

2 opportunity to speak today and applaud
3 the State and NYSERDA's effort in making
4 our State a leader in the energy field.
5 Thank you.

6 MR. CONGDON: Thank you, Joseph.
7 Our next speaker is Arnold Frogel from
8 the Sierra Club.

9 MR. FROGEL: Good afternoon. Or
10 is it morning? I would just like to say
11 that on -- there's very little attention
12 given here to the natural gas
13 exploitation and Marcellus Shale in your
14 printed material. I hope that you're
15 aware of the profound risk that is
16 presented by the use of this resource,
17 which involves the use of many chemicals
18 and many of them toxic.

19 I have a list of 48 toxic
20 chemicals that are -- that have been
21 used in this process that have come from
22 the DEC and that have been -- that have
23 been gathered from the material data
24 safety sheets. I believe that's the
25 federal government. Accidents will

1 HEARING

2 happen. They do happen. They will
3 happen.

4 These chemicals in fracturing
5 fluids that are proposed to be used for
6 the extraction of natural gas migrate in
7 every direction in the subterranean
8 environment, and they migrate great
9 distances. They've already had terrible
10 effects on people's health in other
11 areas, and we cannot afford to turn a
12 blind eye and suspend our disbelief of
13 the blandishments, the dispersions of
14 the companies that have been pushing for
15 this natural gas development, and with
16 the DEC having only 17 people in their
17 minerals division, 17 people to handle
18 upwards of 25,000 different wells that
19 are to be explored in the State of New
20 York, there's a no-brainer here and it
21 has to be faced. It can't be swept
22 aside.

23 You can't leave it to people who
24 have only the bottom-line profits in
25 mind and who have all the defenses of

1 HEARING

2 judicial -- in the judicial process to
3 overwhelm the individual citizens.

4 Thank you.

5 MR. CONGDON: Thank you very
6 much. Our next speaker is Frank Martino
7 from Columbia University.

8 MR. MARTINO: Hello. Good
9 morning. Frank Martino, assistant vice
10 president of plant engineering and
11 utilities at Columbia University. I'm
12 also a board member of the New York
13 Energy Consumers Council. Some of my
14 colleagues are here today. I have about
15 17 years of facilities and engineering
16 and energy initiatives experience here
17 in New York City.

18 So I'm here on behalf of Columbia
19 to express a strong support for NYSERDA
20 and their involvement as the primary
21 agency overseeing the State Energy Plan.
22 Columbia owns, operates, and maintains
23 over 13 million square feet of mixed-use
24 space with a central energy plant at our
25 Morningside Campus.

1 HEARING

2 We are currently in development
3 of an expansion of -- a real estate
4 expansion in the Harlem area. We will
5 build another central energy plant there
6 with lots of innovative energy features
7 to serve the academic operations of
8 Columbia and its academic research.

9 As an original member of the
10 mayor's plaNYC, we committed to
11 reducing carbon emission by 30 percent
12 by 2017, and we're very serious about
13 that commitment. The overwhelming bulk
14 of that 30 percent is going to be due to
15 energy usage well over 90 percent.

16 Historically the university has
17 benefited from millions of dollars in
18 NYSERDA funding over the years through
19 all of their many programs that they've
20 offered. Without that funding, many of
21 those projects that we've implemented
22 that have long-term energy savings would
23 not have been completed.

24 Currently we're working on a new
25 central energy plant, as I mentioned

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before, a chilled water distribution expansion to more effectively and efficiently generate air-conditioning for the university in support of academic operations. We have some geothermal wells that we've drilled for central HVAC control. We're doing lighter retrofits, doing lean buildings and lean construction.

All of these are being constructed and developed with the help of NYSERDA technical assistance. They either have NYSERDA funding appropriated or in the process of being appropriated, and it is a tremendous and -- and absolutely imperative help that NYSERDA gives us for these kinds of projects.

Our future plans include central thermal storage, solid-state lighting, and combined heat and power cogeneration. All of this is contributing to the New York State Energy Plan and its primary goals of energy security, energy efficiency,

1 HEARING

2 reduced carbon footprint.

3 Along those lines, we would like
4 to strongly express our support of
5 cogeneration and CHP, particularly in
6 New York City as a hallmark of the State
7 Energy Plan. And NYSERDA, with all of
8 their technical assistance and
9 experience in developing these plans, is
10 the perfect partner to help facilities
11 like Columbia University and some of my
12 colleagues who have already spoken here
13 today to help us along. Thank you very
14 much.

15 MR. CONGDON: Thank you very
16 much. Our next speaker is Gabriel
17 Carter from Triplepoint Energy.

18 MR. CARTER: We will be
19 submitting written comments on line.

20 MR. CONGDON: Okay, we'll get
21 your comments online. The next speaker
22 is Martha Duggan from Solar Alliance.
23 Martha?

24 MS. DUGGAN: Thank you. I'm
25 Martha Duggan, vice president of the and

1 HEARING

2 regulatory affairs for United Solar
3 Evoniks. We're the leading provider of
4 American-made, thin-film, flexible solar
5 products for the building integrated and
6 commercial rooftop markets.

7 I am here today to offer comments
8 on behalf of the Solar Alliance, and as
9 I think you know, the Solar Alliance is
10 a trade group consisting of 30 companies
11 that manufacture, install, finance, and
12 manage solar systems throughout the
13 United States. The mission of the Solar
14 Alliance is to work with State policy
15 makers and thought leaders such as
16 yourselves to develop cost effective
17 solar policies and programs.

18 I really appreciate the
19 opportunity to make brief comments today
20 on the Draft State Energy Plan. The
21 authors and the stakeholders are to be
22 applauded for the hard work that has
23 produced an important and thoughtful
24 document. It's a great starting point.

25 I would like to offer a few

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comments on the report. The Solar Alliance strongly supports the draft report recommendation that the current renewable portfolio standard be increased to reflect Governor Paterson's commitment to 30 percent renewable energy by 2015.

An integral part of reaching that goal should be to specify a solar goal as part of a larger renewable portfolio standard. Our recommendation is that a 700 megawatt solar goal as part of the 30 percent is an achievable and significant goal. We also support the conclusion in the report that more reliance on in-State energy resources will be a benefit to the State of New York.

I'd like to underscore the role that distributed solar projects can play in that record. Distributed solar can be deployed quickly and make immediate contributions to reducing peak load demand on utilities as well as reduction

1 HEARING

2 of the use of fossil fuels.

3 Those benefits actually lead to
4 our next point, which is the recognition
5 that the perceived price disparity
6 between renewable and traditional fuel
7 resources doesn't consider all of the
8 costs to society of continued reliance
9 on fossil fuel, and the report does a
10 great job of recognizing that.

11 In the case of distributed solar,
12 the cost that can be avoided include
13 costs for additional transmission
14 facilities. This attribute of
15 distributed solar also addresses another
16 of the Draft Report findings concerning
17 the fact that the location of many
18 renewable projects are far from load
19 centers in the State. Deploying more
20 renewable PV projects would, of course,
21 address that issue.

22 We do, however, take issue with
23 the report's conclusion concerning,
24 quote, the extraordinary cost of
25 increasing renewable energy in New York.

1 HEARING

2 We would urge you to expand and revise
3 that conclusion by taking into account
4 the continuing decrease in solar prices
5 in particular.

6 The Draft Report reflects an
7 underlying assumption of \$8 per watt of
8 solar installed. This assumption
9 excludes three important factors: The
10 fact that much of the existing solar in
11 New York on which this assumption is
12 based is residential in small systems
13 that are typically higher in price.

14 Second, there is an ongoing
15 decline in solar panel costs estimated
16 by some to reach as low as \$2 per watt
17 by the end of this year.

18 Finally, balance of system costs
19 have also shown significant declines as
20 project developers establish efficient
21 distribution channels and construction
22 practices in response to growing market
23 demand.

24 Not only is the starting point in
25 the State Energy Plan Draft analysis too

1 HEARING

2 high, it really fails to take account of
3 the decline in cost over time as markets
4 achieve scale, and we've seen this in
5 other more developed solar markets
6 globally as well as in the United
7 States.

8 The Solar Alliance appreciates
9 the Draft Report's recognition of the
10 need for further reform to New York's
11 net metering rules. Clear and fair net
12 metering rules are a cornerstone to any
13 solar market. The Solar Alliance stands
14 prepared to assist in revising the rules
15 to remove ambiguity and to support
16 further solar development in New York.

17 Finally, we support the Draft
18 Report recommendation that the Long
19 Island Power Authority and the New York
20 Power Authority continue to play
21 leadership roles in New York's move to
22 more renewable energy. Specifically the
23 procurement programs that LIPA and NYPA
24 should strive to develop regular
25 schedules for procurements and awards

1 HEARING

2 because this would send a strong signal
3 to the renewable community that there is
4 indeed an enduring and long-term program
5 through those procurements.

6 Thank you very much for the
7 opportunity to comment. We look forward
8 to working with you.

9 MR. CONGDON: Thank you. I have
10 a follow-up. Did you say that there are
11 studies that estimate that the solar
12 installed costs would be \$2 a watt by
13 the end of the year?

14 MS. DUGGAN: There have been
15 estimates that solar panels will reach
16 that price point by the end of this
17 year, and I'd be happy to provide them
18 to you.

19 MR. CONGDON: That would be
20 terrific if you can send that in.

21 MS. DUGGAN: I will do that.

22 FEMALE VOICE: Is that the
23 installed price or the price of the
24 panel, the equipment cost?

25 MR. CONGDON: That's the

1 HEARING

2 equipment cost. I see. Not installed.

3 Thank you for the clarification.

4 The next speaker is David Brooks
5 from Just Bulbs The Light Bulb Store.

6 MR. BROOKS: Hi. I'm David
7 Brooks from Just Bulbs The Light Bulb
8 Store here in Manhattan. I've been
9 doing light bulbs since 1980 and I love
10 light bulbs. Not the ones that make you
11 look green, not the ones that start dim
12 and warm up later, not the ones that are
13 not as bright as the bulbs that you
14 start to put in to replace them, not the
15 ones you find in every supermarket and
16 hardware store, but wonderful light
17 bulbs that enhance your mood, make it
18 easier to see, improve your decor and
19 save energy at the same time. I'm
20 talking about energy efficient light
21 bulbs, but not Energy Star light bulbs.

22 Energy Star light bulbs are not
23 up to the job they're required to do.
24 Sure they handle the basics, but it does
25 nothing about telling people not to turn

1 HEARING

2 their lights off when they leave the
3 room. New energy efficient light bulbs
4 use more electricity in turning the
5 lights on than in keeping them on. So
6 if you go in and out of a room and turn
7 lights off, as in your bathroom, you'll
8 use more electricity than if you'd never
9 turned them off in the first place.

10 It does nothing to promote the 35
11 different colors of whites and color
12 combinations to optimize the look of a
13 room. If you look in this room here,
14 you have four different colors of white
15 in the same place. Doesn't make sense,
16 but that's what they're doing. That's
17 what needs to be looked at.

18 Do you know that you can create a
19 look of a smoke-filled room with 2400 K
20 light bulbs? Do you know that when you
21 go to the supermarkets and you go down
22 the aisles, if you put light bulbs --
23 certain light bulbs in the meat aisle,
24 the red meat looks redder? If you put
25 different light bulbs in the produce

1 HEARING

2 aisle, the green stuff looks greener as
3 well. It sells more product that way.

4 Did you know that if you go into
5 a kindergarten room and you put
6 full-spectrum light bulbs in that
7 kindergarten room, the kids are more
8 attentive under full-spectrum lights?
9 If you do the same thing in an office of
10 a grumpy person, he becomes more
11 pleasant.

12 Do you know a home decor looks
13 best if you use a bulb called Florida
14 Sunshine Color instead of plain old soft
15 white? If you use indirect lighting,
16 it's always more pleasant than direct
17 lighting. But do you know that none of
18 those bulbs are Energy Star?

19 Old ladies like soft pink light
20 bulbs because it makes their skin look
21 better. Diamond dealers like daylight
22 bulbs to make the diamonds sparkle. You
23 have to have the right color for the
24 right application to do the job.

25 Recently we did a project in

1 HEARING

2 Gracie Mansion to make it more energy
3 efficient, but the challenge there was
4 to make it historically accurate at the
5 same time. They wanted to keep the look
6 of the old house while still being
7 useful. And we did very well. We made
8 it energy efficient, but we didn't make
9 it Energy Star. Why? Because niche
10 products don't get certified. It's too
11 much trouble to get the niche products
12 certified.

13 Then there's the question of
14 light bulb shapes. If you put a
15 standard spiral shape that you find
16 everywhere in a recessed fixture such as
17 these in the ceiling, you're wasting
18 three-quarters of the light that's
19 actually coming out of that light bulb
20 because it's getting used up inside of
21 the fixture.

22 If you use the right shaped light
23 bulb in a right application you'd use
24 one-quarter of the amount of light than
25 you otherwise would. That's a huge

1 HEARING

2 savings. If you put globe light bulbs
3 over -- for bathrooms typically, it
4 forces light out in all directions.
5 Again, you need fewer light bulbs and
6 less brightness to get what you need.
7 Torpedoes work best in chandeliers.
8 Various decorative bulbs work best in
9 antique lamps.

10 What I'd like to see you folks
11 doing is finding a way to streamline the
12 process for Energy Star certification of
13 niche products. These niche products
14 are a major factor in the markets, but
15 they simply don't qualify under Energy
16 Star at all. That's what I have to say
17 today.

18 MR. CONGDON: Thank you. Our
19 next speaker is Susan Leifer from the
20 New York State Sierra Club.

21 MS. LEIFER: I have to grow a
22 little, I guess. My name is Susan
23 Leifer. I was born in New York City,
24 and I've spent my entire 72 years in New
25 York State and maybe a few more. I'm

1 HEARING

2 part -- I've been part of many
3 environmental groups and am particularly
4 interested in clean water and I'm
5 particularly interested in environmental
6 issues.

7 So my first question is: Is
8 there a critical need for more energy in
9 New York? And if so, is hydrofracturing
10 in the Marcellus Shale for natural gas
11 the way to get it? In a Conservation
12 Report Buck Denton on the blog said
13 natural gas, like all fossil fuels,
14 comes with a huge health and
15 environmental footprint from drilling to
16 burning. The natural gas industry is
17 responsible for 18.6 of greenhouse gas
18 emissions in the United States.
19 Praising natural gas for being less
20 cancerous and less polluting than coal
21 should only underscore how dirty a fuel
22 coal is and not promote the false
23 impression that natural gas is clean.

24 In New York State we use one-half
25 of the national average energy per

1 HEARING

2 person. Con Ed doesn't need more
3 energy. It has closed or not started
4 several plants. We can conserve more
5 energy. Conservation, smart grids,
6 smart metering are all the tools to
7 provide us with enough energy.

8 Rather than add new sources of
9 energy, we could provide help to
10 insulate all our public buildings,
11 schools, libraries, places of work,
12 religious houses, and make it very
13 affordable to insulate our own homes.

14 Our DEC is understaffed, having,
15 somebody said, 17, I heard 19, to
16 monitor and protect our whole State.
17 It's an impossible task. A recent
18 four-year request from the DEC yielded
19 the highly hazardous products used in
20 fracking fluid in the Yates, Schulyer,
21 Steuben, Green, and Cortland counties.

22 The conclusion that can be
23 reached is that there is no State water
24 works that is equipped or able to
25 reclaim fracturing fluid and make it

1 HEARING

2 safe enough to put it in our streams and
3 in our waterways.

4 Subsidies. Federal money, tax
5 expenditures largely go to process
6 fuels. About 13.7 billion in 2007.
7 According to the GOA, the government
8 accountable tables, natural gas reaches
9 the biggest chunk of federal subsidies.

10 State and local subsidies. The
11 Industrial Development Agency offers
12 conduit financing for the issuance of
13 tax exempt industrial revenue bonds and
14 tax exempt civic facility bonds, sale
15 and leaseback transactions, products
16 expansion, finances without issuance of
17 bonds.

18 In general the IDA can insist the
19 projects with the purchases of land,
20 existing facilities, new machinery, and
21 equipment, the construction of any
22 facilities, renovation. IDA benefits
23 can combine with incentives provided by
24 other sources.

25 Bond refinancings. IDA can act

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as conduit for tax exempt industrial revenue bonds. Tax abatement is the section of the local general municipal law that provides that IDAs are not required to pay any tax upon any of the property acquired by it under its jurisdiction or control or supervision or upon its activity.

Consequently, there are three benefits associated with IDA transactions: Real property tax abatements, sales-and-use tax exemptions mortgage recording tax taxes. More subsidies.

New York State Empire Zone was created to stimulate economic growth throughout the State. Three new and potentially lucrative credits were added and more empire zones were created. They offer a tax exempt revenue bond and taxable revenue bonds. By the time we as taxpayers pay for all these subsidies and all the exemptions, hydrofracturing will get an essentially free ride. The

1 HEARING

2 State will not realize any additional
3 revenue and have an increasingly health
4 and environmental burden.

5 In areas where hydrofracturing is
6 taking place, families and neighbors are
7 experiencing everything from
8 miscarriage, rare cancers, diseases of
9 the central nervous system, seizures
10 liver disease. This came from John
11 Fenton of Pavillion Area Concerned
12 Citizens, a citizens group formed to
13 address oil and gas contamination.

14 Wind power. Wind project owners
15 receive tax credits only for the
16 electricity they produce. Many
17 subsidies for the new clean energy
18 technologies are temporary, while many
19 for older polluting energy technologies
20 are permanent.

21 Wind energy's primary incentive,
22 the PTC has been allowed to expire
23 multiple times since creation in 1992.
24 The long-term benefits of investing in
25 wind energy will save Americans billions

1 HEARING

2 of dollars through reduced health
3 pollution and waste cleanup.

4 Wind power enhances natural
5 energy independence for both rural and
6 economic development and contributes to
7 energy price stability and helps address
8 climate change.

9 I'm almost finished.
10 Hydrofracturing uses two to five million
11 gallons of water per well, a thousand
12 gallons per minute. We now have an
13 abundant supply of clean water in New
14 York State and we need to keep it that
15 way. The contamination from gas
16 drilling would make new swathes of land
17 and water unable to be used as farm
18 land. These will become more essential
19 as the west and central U.S. are
20 increasingly experiencing the scarcity
21 of water. In fact, world water scarcity
22 looms.

23 We cannot get back the land and
24 the water we squander under the basis of
25 natural gas. Please include the total

1 HEARING
2 ramifications for any energy ecology you
3 use for New York State. I totally
4 support Governor Paterson's call to
5 reduce our carbon footprint by 2015.
6 Thank you for this opportunity to
7 express myself.

8 MR. CONGDON: Thank you very
9 much. Our next speaker is Stuart
10 Nachmias from Con Edison.

11 MR. NACHMIAS: Good afternoon.
12 My name is Stuart Nachmias. I'm vice
13 president of energy policy and
14 regulatory affairs for Con Edison.
15 Thank you for the opportunity to provide
16 these remarks on the Draft State Energy
17 Plan on behalf of Con Edison.

18 Our company is supportive of the
19 development of the Plan as a means to
20 map out specific actions to meet the
21 future energy needs for the people of
22 New York and for all of our customers in
23 New York City, Westchester, Orange, and
24 Rockland Counties.

25 The Draft Plan contains many

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recommendations and we commend the team

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on providing thorough assessments in a

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variety of areas. We suggest that the

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final Plan provide a more detailed road

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map of actions required to implement the

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Plan's recommendations. Specific

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recommendations will guide into actions.

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We also recommend that a process for

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public comment on specific

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recommendations be included prior to

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adoption of the final Plan.

13

New York City is probably the

14

most energy efficient area in the United

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States due largely to our public

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transportation network and concentration

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of multi-family buildings. The State

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should encourage economic development in

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New York City, not just for the direct

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economic benefits, but also the growth

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that will enhance the State's energy

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efficiency.

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New York's energy needs are

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changing resulting in requirements to

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modernize the electric transmission and

1 HEARING
2 distribution systems, to encourage
3 customers to use energy more wisely, to
4 accommodate new uses for energy like
5 electric vehicles, to address climate
6 change by reducing greenhouse gas
7 emissions, and to encourage clean
8 renewable sources of energy. The
9 challenges of the future are
10 substantial. A detailed plan to meet
11 these challenges is an imperative.

12 I'll make four main points today.
13 I note that Con Edison plans to provide
14 written comments in October as well.
15 First point: Support for a modern
16 reliable grid. Con Edison strongly
17 supports the plan's focus on energy
18 reliability, a threshold requirement.

19 A robust reliable and modern grid
20 is essential to advance the State's
21 economic goals, recognize the importance
22 of New York City as an engine for growth
23 in the State. Maintaining a modern grid
24 will require substantial capital
25 investment and the Plan acknowledges

1 HEARING

2 this.

3 The grid is in the early years of
4 a technological revolution that will
5 provide new functionalities. Con Edison
6 supports the Smart Grid as a cost
7 effective tool to mitigate long-term
8 infrastructure needs. Our recent
9 announcement of the Smart Grid
10 demonstration program in Long Island
11 City, Queens, and the proposal to
12 further advance our Smart Grid with
13 federal stimulus dollars lays out our
14 future directions to introduce new
15 technology to the grid.

16 Grid intra-operability with local
17 renewable energy sources will be one
18 important focus of Smart Grid.
19 Deploying Smart Grid technology across
20 the distribution system should be the
21 first priority. A second priority is
22 deploying smart meters at the customer
23 level starting with the customers that
24 can provide system benefits.

25 The State should build on current

1 HEARING
2 plans for Smart Grid investment by
3 developing, in conjunction with the
4 State's utilities, a detailed Smart Grid
5 implementation road map. The Plan must
6 be coupled with an overall strategy to
7 encourage investors to choose New York
8 utilities over other investment
9 opportunities.

10 Second point: A plan for
11 efficiency and innovation. Competitive
12 wholesale markets have provided
13 incentives for efficiency and
14 innovation. The State should plan to
15 use competitive solutions where
16 practical and an effort to improve the
17 market so they can produce competitive
18 results should be continued. The Plan
19 should provide for further development
20 of the electric capacity and energy
21 markets to accommodate and reflect
22 demand response resources.

23 With respect to wholesale
24 markets, the Plan should advocate the
25 use of demand response resources for

1 HEARING

2 setting electric generation past the
3 prices as part of the New York ISO
4 triennial process to set capacity
5 prices.

6 The Draft Plan advocates keeping
7 energy costs competitive and affordable
8 for customers, and Con Edison supports
9 this objective. Con Edison supports the
10 Plan's emphasis on energy efficiency and
11 the likely need for more natural gas.

12 Clean energy technology will be
13 important to the State's future economic
14 health, and the State Energy Plan should
15 encourage investments and renewables
16 throughout the State, keeping an eye on
17 the cost of those investments.

18 Renewables will be critical with
19 federal climate change legislation being
20 considered. New York procures 21
21 percent of its energy from existing
22 renewable resources and additional
23 renewable energy is a good investment
24 for the future.

25 The Plan should adopt achievable

1 HEARING
2 cost effective clean energy goals and
3 should disclose the cost to achieve
4 goals contained in the document, such as
5 procuring 30 percent of our energy from
6 renewals by 2015 or reducing carbon
7 emissions by 80 percent in 2050 so we
8 can understand the cost to implement the
9 plan.

10 The State utility companies can
11 and should play a greater role in
12 developing renewable resource programs.
13 With the framework for utility
14 participation, including cost recovery
15 for cost effective programs, the ability
16 to leverage RGGI and other
17 policy funds and a specific
18 reconsideration of any generation
19 investment limitations, the State will
20 position itself for leadership in this
21 emerging and vital effort.

22 The State shall allow flexibility
23 for the disbursement of RPS funds when
24 an area of the State is paying more into
25 the program than is spent in that same

1 HEARING

2 area.

3 My third point is a plan to
4 address climate change. The Draft State
5 Energy Plan advances the need to address
6 climate change by drastically reducing
7 the State's carbon emissions. The
8 Plan's opposition to relicensing Indian
9 Point to be replaced with a
10 carbon-emitting natural gas plant should
11 be reconsidered. Nuclear power provides
12 carbon emission benefits and also
13 provides important reliability benefits
14 and economical energy.

15 Just a final word, a fourth
16 point, on cost effectiveness. Con
17 Edison is glad to see cost effectiveness
18 as a theme throughout the State Energy
19 Plan. It needs to be an all-in concept
20 when it comes to driving the State's
21 energy policy. For example, when
22 considering renewables, the cornerstone
23 for reducing carbon in an electric
24 system, the cost of long-hall
25 transmission may make local renewables

1 HEARING
2 like offshore wind located close to New
3 York City a better solution for
4 customers than other options. The final
5 Plan should propose specific
6 considerations for cost effective
7 decision-making that will benefit New
8 Yorkers.

9 In closing, we look forward to
10 the detailed implementation plan so that
11 Con Edison can consider and meet the
12 State's objectives in providing New
13 Yorkers with a strong energy
14 infrastructure that is safe, reliable,
15 clean, and affordable. Thank you.

16 MR. CONGDON: Thank you, Stuart.
17 Our next speaker is Marian Rose.
18 Marian, nice to see you.

19 MS. ROSE: Good morning. My name
20 is Marian Rose. I'm with the group
21 Water Safety and Water Coalition, which
22 is a not-for-profit coalition with over
23 50 groups, community, environmental,
24 housing, and religious. The objective
25 is to maintain safe, clean, and

1 HEARING

2 affordable drinking water for New York
3 City and New York State residents.

4 Now, the Draft New York State
5 Energy Plan would, quote, encourage
6 development of the Marcellus Shale
7 natural gas formation with environmental
8 safeguards that are protective of water
9 supplies and natural resources. New
10 York City's Delaware Watershed, that
11 supplies superb quality,
12 still-unfiltered drinking water for up
13 to 60 percent of the New York City
14 metropolitan area's needs, lies within
15 the Marcellus Shale.

16 The Water Safety and Water
17 Coalition considers the Energy Plan's
18 program to extract natural gas within
19 the New York City watershed to be a dire
20 threat, indeed an unacceptable threat,
21 to the integrity of the drinking water
22 supply for over 9 million New York State
23 residents.

24 Furthermore we are adamantly
25 opposed to hydrofracturing, or fracking,

1 HEARING

2 which is the most likely method to be
3 used for gas extraction. New York City
4 has an unparalleled source of drinking
5 water that lies within a 2,000 square
6 mile watershed. 90 percent of New York
7 City and metropolitan needs are supplied
8 by the West of Hudson Catskill/Delaware
9 watershed. The remaining 10 percent are
10 supplied by the Croton.

11 The Catskill/Delaware Watershed,
12 which is far less developed than the
13 Croton, is over 70 percent forested.
14 Thanks to the abundance of forests, the
15 water from this watershed is of such
16 high quality that it only requires
17 minimal treatment and probably saving of
18 over \$20 billion should a water
19 treatment have to be built because of
20 water contamination.

21 But water contamination is
22 exactly what is likely to happen if
23 fracking is allowed in the Delaware
24 Watershed. Fracking includes clearing
25 access roads through the forest and

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clearing a well site that can be
anywhere from three acres to 30 acres,
extracting from one to three million
gallons of water from the aquifer. This
is likely to deplete nearby streams that
will lose their base load during the dry
months or trucking the water in from
elsewhere.

It involves mixing the water with
sand and chemicals, whose mix is a trade
secret, it involves drilling wells
several thousand feet deep into the
aquifer, and it involves drilling at
right angles to this well through the
shale layer for another several thousand
feet, forcing the water down into the
well under such power that it will break
up the shale containing gas and release
gas into the well.

At least 40 percent of the
chemically contaminated water can remain
below ground for up to four years and
seep into the aquifer before gradually
being absorbed and diluted. The

1 HEARING

2 remaining contaminated water is either
3 trucked off to be treated at a sewage
4 treatment plant, that one hopes is able
5 to treat the chemicals, or it is stored
6 above ground in pools at the site.

7 In the latter case, run-off from
8 storm water and infiltration in the
9 ground water poses a threat. These well
10 sites leave gaping holes in the forest
11 canopy and the truck roads fragment the
12 forest itself. Both have the effect of
13 weakening the forest and diminishing its
14 unique ability to provide clean, fresh
15 water.

16 The potential for contamination
17 of local wells, aquifers, streams, and
18 reservoirs is very real. Already there
19 have been numerous reports of local
20 wells being contaminated, although the
21 gas drillers claim this is but a small
22 percentage. However, it is a 100
23 percent loss for the homeowner and the
24 loss to the 9 million New York City
25 residents who depend on this water would

1 HEARING

2 be overwhelming.

3 Because fracking can cause
4 irretrievable damage to New York City's
5 main source of drinking water, the
6 permitting agencies and authorities must
7 bear the full burden of proof that this
8 method of extraction will not degrade
9 the water in any way.

10 Only the most stringent
11 regulations being strictly enforced will
12 there be any realistic hope of
13 protecting our drinking water.
14 Unfortunately, there seems to be little
15 desire for strict enforcement by the
16 Governor or the New York State agencies.

17 The Governor's recent Executive
18 Order No. 25, under the pretext of
19 efficiency and saving money, in reality
20 merely eases the permitting process for
21 its sadly depleted DEC staff and
22 shortens the applicant's period of
23 waiting for a permit. It does nothing
24 to protect our water.

25 With New York State facing

1 HEARING

2 difficult economic times, the Governor
3 would no doubt be pleased for New York
4 State to receive \$1 billion in
5 anticipated revenues from gas drilling.
6 Difficult as it may be, we urge the
7 Governor to take the long-term view and
8 not sacrifice New York State's unique
9 resource, its drinking water, for
10 short-term gains. We urge that gas
11 drilling in the New York City Watershed
12 be excluded from the 2009 New York State
13 Energy Plan. Thank you for this
14 opportunity to comment.

15 MR. CONGDON: Thank you, Marian.
16 Our next Speaker is James Hegarty from
17 the Laborers' Union.

18 MR. HEGARTY: Good afternoon. I
19 want to thank the panel for letting me
20 speak here today. My name is James
21 Hegarty and I am a field representative
22 for the Mason Tenders' District Council
23 Political Action Committee. The Mason
24 Tenders' District Council Political
25 Action Committee is comprised of more

1 HEARING

2 than 15,000 members in six local unions
3 of the Eastern Region of the Laborers'
4 International Union of New York. The
5 Laborers' International Union represents
6 some 40,000 men and woman in New York
7 State working as construction laborers,
8 mason tenders, plasterer's helpers,
9 office and professional personnel,
10 demolition workers, recycling plant
11 employees, sand hogs, pavers, high
12 school teachers, and asbestos and
13 hazardous material abatement laborers.

14 The New York State Energy Plan
15 has a fatal flaw as its very premise.
16 The problem with such an error at its
17 basic level is that the entire plan then
18 becomes faulty. As we know in the
19 construction industry, if you build a
20 structure with a flawed foundation, all
21 that gets built atop will be flawed as
22 well. That fatal flaw is the misguided
23 premise that nuclear energy is
24 inherently dangerous.

25 In a day and age where every

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conceivable entity, from the White House to the State House, to numerous city halls throughout the State are searching for ways to achieve energy independence, to dismiss a technology that over decades of use and refinement has proven itself to be a safe alternative to foreign oil is foolhardy at best.

As of 2008, there were 59 nuclear power plants operating safely throughout France, producing an astounding 87.5 percent of that country's electricity. Public opinion polls show that 70 percent of the population has a positive opinion of nuclear energy.

But here in America, we still cower in fear thinking that such movies as "The China Syndrome," three-decades-old work of fiction represents the nuclear industry of today. That is certainly not the case, and those myths need to be put to bed for very good reasons.

These irrational fears have a

1 HEARING
2 very real impact on the lives of
3 countless New Yorkers. The closing of
4 Indian Point would affect numerous
5 businesses that rely on clean,
6 affordable, safe electricity generated
7 there. The loss of that energy supply
8 has ramifications affecting the State's
9 tax base as well as the company's
10 revenues, and thus their employees.

11 Of course, as a laborer
12 representative, it is the workers that
13 are my main concern. In these hard
14 economic times, when the Federal
15 Government is pumping billions of
16 dollars into stimulus programs in order
17 to put people back to work, why should
18 New York State undertake an action that
19 will result in even greater
20 unemployment? Particularly when that
21 action is based on a flawed premise.

22 With up to 40 percent of the
23 Hudson -- lower Hudson Valley's coming
24 from Indian Point, closing that plant
25 would result in the loss of jobs for

1 HEARING

2 thousands of New Yorkers, further
3 devastating the already faulting economy
4 of our State, while simultaneously
5 sounding the final death knell for any
6 manufacturing still being done between
7 Albany and the New York City line.

8 I urge the leadership of our
9 State to remember that while the squeaky
10 wheel often gets the most grease, it
11 does not always need it. Do not let a
12 small but passionate minority control
13 the debate on this vital issue. If New
14 York is ever going to again regain its
15 status as the Empire State, the economic
16 engine of the United States, and indeed
17 the world, logic must overpower rhetoric
18 and in fact must triumph.

19 New York needs clean, reliable,
20 safe energy. New York needs industry.
21 New York needs jobs. The continuing
22 operation of Indian Point helps to
23 achieve all of these goals for the good
24 of all New Yorkers. Please keep Indian
25 Point open and operating. Thank you.

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MR. CONGDON: Thank you, James.
Our next speaker is Ruben Brown from E
Cubed.

MR. BROWN: Can this pick me up
at this angle?

MR. CONGDON: Yes.

MR. BROWN: My name is Ruben
Brown from E Cubed Company, LLC,
representing an ad hoc coalition that's
been in existence for 20 years called
The Joint Supporters. This includes the
National Association of Energy Service
Companies and its 60-plus members who
are performance contractors doing much
of the work across the State in energy
efficiency programs, distributed
generation activities, and demand
response programs.

It includes an upstate
manufacturer of the largest boiler maker
in New York, ECR International, which is
trying to innovate with on-site
residential micro combined heat and
power systems at the 1.2 kilowatt level.

1 HEARING

2 I'll talk about that further. It
3 includes other manufacturers of small
4 generating systems, capstone micro
5 turbines, a variety of demand response
6 providers, NDG providers, including some
7 Energy Star winners in the facilities
8 built in New York City in the past few
9 years and the like.

10 The coalition has participated in
11 all major State energy planning
12 activities in the last 20 years, ranging
13 from the challenge to import contracts
14 from Canada 20 years ago, which led the
15 way for an evaluation on in-State
16 conservation and in-State generation,
17 was a more effective resource than
18 building dams in Northern Quebec. I'm
19 not here to argue that issue today. I
20 think some of us lived with that one a
21 long time ago.

22 One of the things in our review
23 of the executive summary of the plan and
24 various components of the plan that
25 sticks out very loudly is the wording

1 HEARING

2 that you use versus the wording that we
3 would use. We would focus strategy No.
4 1 on reducing waste energy. You
5 produce, deliver, and use energy more
6 efficiently, yes, we agree with all
7 that.

8 But the waste energy that is
9 present in the New York economy includes
10 energy from the standpoint of fuel
11 entering a power plant, losing
12 two-thirds of its value in the power
13 plant, and then losing another 8 to 10
14 percent on its way to the end use. So
15 the concept of producing power on site
16 already saves 65 to 70 percent of the
17 BTU input to the New York economy.

18 So the concept of using natural
19 gas or propane at a site -- and we've
20 heard numerous speakers raise the
21 combined heat and power alternative --
22 is a concept that is underplayed in this
23 plan. And one of the statements that
24 was made privately by a State official
25 recently was well, we were looking

1 HEARING

2 forward, we weren't looking back; you
3 know, combined heat and power is already
4 here with us.

5 In fact there's still much
6 innovation to occur with respect to the
7 use of combined heat and power, and I'm
8 going to use the example at the
9 residential level to illustrate the
10 purpose. There are 50,000 kilowatts of
11 micro combined heat and power in
12 existence in Japan. At the present time
13 there are 50,000 kilowatts of
14 installations in Europe at the present
15 time.

16 The European Union in February of
17 2004 established an efficiency
18 standard -- total efficiency standard
19 for under 50 kilowatt micro combined
20 heat and power installations that's
21 using the same fuel to produce both heat
22 and power rather than two fuel streams
23 like the one at the utility plant and
24 the one over at your house to heat it.
25 They set a total efficiency standard of

1 HEARING

2 80 percent. Accompanied countries
3 around Europe are gradually adopting
4 that.

5 And I'm going to pick up on the
6 point because earlier this year the
7 State of Maine adopted 80 percent as the
8 total efficiency standard for micro
9 combined heat and power and the
10 legislature of New York State has
11 adopted it as the standard for New York
12 State with respect to the net metering
13 legislation that is pending on the
14 Governor's desk for signature at the
15 present time, which we steadfastly urge
16 you to sign.

17 The State of Maine went further.
18 The legislators said simply we're
19 revising the net metering laws for
20 renewables, we're going to revise the
21 net metering laws for micro CHP to allow
22 any fuel and any technology that arrives
23 at the 80 percent level, and we're going
24 to raise the level on the renewables to
25 660 kilowatts to reach big windmills.

1 HEARING

2 And low and behold they did the same
3 thing for micro CHP. So you've got to
4 have an efficiency standard up to 30
5 kilowatts of 80 percent and from 31
6 kilowatts to 660 you got a 65 percent
7 efficiency standard.

8 Having stated that micro CHP and
9 other things like that are appropriate
10 for action -- and I'll finish up in just
11 a couple of moments -- one of the
12 innovations that has reflected in the
13 Plan is a strong attempt to coordinate
14 everything under the sun. And
15 unfortunately, in an ecological system,
16 diversity brings stability. And as
17 you've moved to coordinate and
18 concentrate, you're cutting off a lot of
19 innovation and things at the margin.

20 One of the places this has
21 squirted out into the public life
22 recently is Brookhaven. And in
23 legislation that is also on the
24 Governor's desk on the use of garbage
25 district funds to pay for energy

1 HEARING

2 efficiency in homes.

3 One of the reasons I feel so
4 strongly that towns across the State
5 ought to be allowed to do this is that
6 it gets us out from underneath Garry
7 Brown's jurisdiction at the Public
8 Service Commission -- because the town
9 boards make their own decisions about
10 energy efficiency -- so Garry doesn't
11 have to worry about all that stuff,
12 NYSERDA doesn't have to worry about all
13 of that stuff, and importantly, it
14 provides a whole series of alternatives
15 for people to get out and spend maybe up
16 to \$12,000 at their house. And the
17 towns are using their ARRA money to match
18 this.

19 So we think that there's a
20 tremendous opportunity to loosen up the
21 one-in-four family residential
22 marketplace for energy efficiency. And
23 you've got over three million homes in
24 the State that use natural gas to heat
25 with.

1 HEARING

2 So back to micro CHP and the end
3 of my statements, we can save 46 percent
4 of the carbon dioxide emissions of the
5 State by letting people generate on
6 their site. We can save 30 percent of
7 the fuel that is consumed in the State
8 by allowing that to happen. End of
9 comment. We'll provide written remarks
10 on behalf of our represented
11 constituencies.

12 MR. CONGDON: Thank you, Ruben.
13 Our next speaker is Matt Wallach from
14 the Citizens Campaign for the
15 Environment. Matt?

16 MR. WALLACH: Good afternoon.
17 Thank you for the opportunity to provide
18 comments today. My name is Matt
19 Wallach. I'm the Hudson Valley program
20 coordinator for Citizens Campaign for
21 the Environment, CCE. CCE is an 80,000
22 member nonprofit, nonpartisan advocacy
23 organization working to protect the
24 public health and natural environments
25 in New York State.

1 HEARING

2 CCE works to build widespread
3 understanding and advocacy for policies
4 and actions designed to manage and
5 protect our natural resources and public
6 health. CCE works actively at the
7 local, State, and federal level to
8 advance policies that reduce greenhouse
9 gas emissions and promote clean
10 renewable energy solutions.

11 CCE applauds the Energy Planning
12 Board for moving forward with the New
13 York State Energy Plan process,
14 releasing the draft report, and
15 welcoming public comments and feedback.
16 CHP supports New York State formulating
17 an Energy Plan for the region. An
18 agreed-upon plan for energy development
19 in the State will benefit the
20 environment, public health, and our
21 climate by meeting our energy needs in
22 the most efficient, sustainable, and
23 cleanest manner while providing
24 regulatory certainty for energy
25 companies in New York State.

1 HEARING

2 CCE thanks you for the
3 opportunity to provide comments and
4 touch on one important priority -- some
5 important priority principles today.
6 CCE will also submit more extensive and
7 detailed written comments during the
8 comment period.

9 CCE and our 80,000 members
10 support an Energy Plan that stabilizes
11 energy costs, creates new jobs, and
12 increases our energy independence by
13 investing in energy efficiency and
14 renewable energy, not new coal or
15 expensive nuclear power.

16 Thousands of our members signed
17 petitions and more than 5,000 of our
18 members wrote individual letters of
19 support to these -- on these principles
20 during the comment period on the scope
21 plan. CCE is pleased the Draft Plan
22 puts such a strong emphasis on energy
23 efficiency and renewable energy
24 developments. The best kilowatt of
25 energy is the kilowatt that we never

1 HEARING

2 use.

3 Energy efficiency and
4 conservation are the first and most
5 important strategies to reducing costs
6 and saving ratepayers money, reducing
7 pollution and benefiting the
8 environment, and benefiting national
9 security. CCE strongly supports the
10 Governor's '15 by 15' plan and the many
11 recommendations in the Draft Plan for
12 efficiency beyond 2015.

13 While energy efficiency is
14 critical, increased renewable energy
15 production is also necessary to meeting
16 demand, displacing dirty fossil fuels
17 and nuclear energy, while benefiting the
18 environment.

19 CCE supports the Governor's '45 by
20 15' goal that requires 45 percent of New
21 York's energy mix is obtained by
22 renewable energy and energy efficiency
23 by the year 2015, which is supported in
24 the Draft Plan.

25 New York State has great

1 HEARING

2 renewable energy potential that must be
3 realized to fight climate change,
4 increase energy independence, and
5 benefit local economies and create green
6 jobs.

7 The Draft Plan indicates that
8 it's technically and practically
9 feasible to generate more than 75
10 percent of New York's electricity from
11 hydro, solar, wind, and body mass by the
12 year 2018. In particular, New York
13 State is a wind-rich State with
14 tremendous potential for -- to generate
15 clean renewable wind energy.

16 CCE supports policies and actions
17 that will help wind reach its potential
18 both on land and offshore, in the ocean
19 and Great Lakes. While all energy
20 sources have an impact on our
21 environment, wind produces no harmful
22 air or water pollution, and potential
23 adverse impacts can largely be mitigated
24 with careful planning.

25 CCE has some significant concerns

1 HEARING

2 with recommendations in the Draft Plan.
3 The Draft Plan supports drilling in the
4 Marcellus Shale performing formation for
5 natural gas. Drilling in Marcellus
6 Shale will require a process known as
7 fracturing, a process which poses
8 serious potential adverse impacts to
9 ground and surface water. Extracting
10 natural gas and other natural resources
11 should not adversely impact quality and
12 quantity of drinking water or surface
13 water.

14 CCE supports rigorous
15 environmental review, public
16 involvement, and full disclosure of the
17 risk to our environments and public
18 health. In addition, the State Energy
19 Plan should explicitly state the
20 sensitive and unique areas that should
21 not be drilled in.

22 The Draft Plan supports new
23 nuclear power for New York State. No
24 new nuclear power plants have been built
25 or became operational in our country in

1 HEARING

2 decades. It's no wonder why high risks,
3 exorbitant costs, and legacy waste come
4 along with nuclear energy production.

5 The legacy of toxic waste that
6 persists from the use of nuclear energy
7 turn to contaminate our drinking water
8 and land for future generations.

9 Nuclear waste does not make our nation
10 more energy independent either, as the
11 vast majority of uranium currently used
12 for nuclear energy is imported from
13 other countries, such as Russia.

14 CCE also is concerned with
15 potential for desalination in Rockland
16 County and other locations throughout
17 New York State. The desalination
18 process uses an immense amount of
19 energy, sometimes ten times or more the
20 amount of traditional measures for water
21 extraction. The Plan needs to address
22 conservation and efficiency for water
23 which is linked to energy use to avoid
24 these energy-intensive proposals.

25 Lastly, CCE strongly urges the

1 HEARING

2 board to develop a strong plan for
3 implementation in the final report,
4 which is lacking in the Draft Report.
5 While a report with great information,
6 recommendations, and goals is important,
7 without a clear plan for implementation,
8 it lacks effectiveness. Thank you for
9 your consideration.

10 MR. CONGDON: Thank you very
11 much. Just a point -- because we heard
12 this from other folks -- about the
13 implementation plan, the intent is to
14 have a detailed implementation plan for
15 the final. We provided broad
16 recommendations, and throughout the
17 public hearing process and the written
18 comments we received, we intend to fill
19 in with some additional detail in our
20 last chapter what will be a detailed
21 implementation. Thank you.

22 Our next speaker is Theo Batista?
23 I'm sorry. Your handwriting is
24 difficult to read.

25 MR. BREITENSTEIN: Theo

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Breitenstein, B-R-E-I-T-E-N-S-T-E-I-N,
president of EMACX Systems. We are an
energy technology company, I'm here to
testify on behalf of NYSERDA. I
appreciate the opportunity to the
Planning Board that I am able to speak.

We have been working with NYSERDA
over eight years, and NYSERDA has made
millions of dollars of contribution to
our company and also to our end users
saving over 3,000 tons carbon footprint
reduction and saving obviously also the
customer millions of dollars.

From the beginning NYSERDA has
made an effort to understand our
technology in the area of conservation,
energy conservation, and look at our
product from every side. NYSERDA --
what I really appreciate is that
NYSERDA's engineers are really hands-on
program managers. They're in touch with
not only companies such as ours, but
also with the end user out there to see,
you know, how they can promote their

1 HEARING
2 objective of really energy conservation
3 and how energy -- efficient energy
4 measures can be taken.

5 Through the practical and
6 hands-on approach, they aligned
7 themselves with the program -- the
8 energy conservation program on every
9 level. When I say that, I mean with the
10 city, with the State, and the --
11 ultimately when we look at what's
12 happening on a national basis, it's also
13 aligned with that.

14 Over the years NYSERDA has made
15 it easy to participate in the programs.
16 We are working with utilities and
17 incentive programs, providers
18 nationwide. I can only say that NYSERDA
19 is probably to me personally still the
20 best in the country. Whether that is
21 with the initiatives to promote energy
22 conservation, but also to educate the
23 people out there looking to participate
24 in programs.

25 Then also, they have really

1 HEARING

2 realigned their applications process,
3 streamlined it, so to speak, so that
4 there is very little red tape there. I
5 also appreciate the ongoing PR efforts
6 NYSERDA is doing particularly in the
7 area of education. I have -- really one
8 of my passions is to educate people out
9 there what can be done in regard to
10 energy conservation, and NYSERDA has
11 really taken on that role as well.

12 Now, let me make a suggestion
13 going forward. As I said, EMACX systems
14 is really focused on demand control and
15 demand response. Now, when one
16 considers the grid as an optimal
17 functionality of the grid, people take
18 energy efficiency measures.

19 In the United States -- as I have
20 seen being European and having 25 years
21 of experience in the energy efficiency
22 conservation energy business, in Europe
23 we don't take demand response measures.
24 We take efficiency measures and we take
25 demand control, peak load control,

1 HEARING

2 measure and with that we stabilize the
3 grid. The grid is therefore very well
4 managed. Demand response measures are
5 not really common in the United States.
6 We do not focus so much on demand
7 control, intelligent peak load control,
8 or peak load control measures.

9 I would highly suggest that under
10 the initiative the Mayor of New York
11 City does with green greater New York
12 forming legislation, but also with
13 NYSERDA, maybe to look more closely into
14 the area of demand control, how can you
15 promote it? How can we take it to the
16 next level in order to make a
17 substantial contribution to stabilize
18 the grid and also eventually towards the
19 Smart Grid?

20 Again, I appreciate all NYSERDA
21 does for New York State and this
22 community to promote energy efficiency
23 measures and conservation. I can only
24 applaud. Thank you.

25 MR. CONGDON: Thank you very

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2 much. Thank you for the kind words
3 about NYSERDA. We're lucky to have them
4 in State government. Of course, they
5 couldn't do what they do without the
6 funding supported by the Public Service
7 Commission, which approves a lot of the
8 programs that NYSERDA administers, so I
9 also want to recognize the PSC.

10 MR. GRANNIS: And the ratepayers.

11 MR. CONGDON: And of course, the
12 ratepayers who provide the funds. Thank
13 you, Pete. Our next speaker is Mary
14 Ellen Paravalos from National Grid.

15 MS. PARAVALOS: Good afternoon.
16 I'm Mary Ellen Paravalos. I'm a vice
17 president at National Grid on the
18 electric and gas utility surveys on
19 customers across the State of New York.
20 Thank you for having me. I'm really
21 happy on behalf of National Grid to be
22 able to give you some comments today.

23 National Grid congratulates the
24 State Energy board for releasing the
25 Draft Report. Obviously a lot of great

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2 work by a lot of people, and so we think
3 it's a great step in the right direction
4 and we look forward to working with
5 folks towards a final plan later on this
6 year.

7 We share the Governor's vision
8 for a clean energy economy. It is what
9 is required to stimulate investment,
10 create jobs, protect health in the
11 environment, and meet the energy needs
12 of New York State. We were pleased to
13 see that the Draft Plan surfaces a
14 number of critical issue towards
15 achieving that objective.

16 Achieving the State's goals will
17 require leadership from both policy
18 makers and from utilities that provide
19 energy services across New York State.
20 And National Grid stands ready to help
21 with that objective.

22 Today I would like to comment on
23 three issues that would be critical to
24 the successful implementation of the
25 State's energy and environmental

1 HEARING

2 objectives in the areas of energy
3 efficiency, clean energy resources, and
4 infrastructure investment.

5 Energy efficiency, a priority
6 resource in the plan, as it should be.
7 It's a really important tool at our
8 disposal to help meet the energy
9 efficiency goals. It's a tangible way
10 for customers to manage their energy
11 costs and at the same time reduce their
12 climate change footprint.

13 But achieving New York's
14 ambitious energy-efficient goals will
15 require a close partnership across
16 policy makers and regulatory State
17 utilities and NYSERDA, so we need all
18 hands on deck on this one, policy makers
19 and regulators setting the right
20 policies with the right targets, and
21 then NYSERDA, the utilities, and energy
22 service providers getting on with the
23 job.

24 We need to streamline the energy
25 efficiency program approval process and

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2 have more flexibility in designing and
3 implementing those programs. We've had
4 a lot of success in the past by a lot of
5 parties, but these targets that we're
6 now working towards obviously are very
7 aggressive and we need to be able to
8 move quickly with bigger impact across a
9 wider population, and so that's going to
10 require that we streamline things and be
11 able to move quickly.

12 National Grid's energy efficiency
13 team will be providing input on specific
14 actions that we think will help move in
15 the right direction. We'll be providing
16 comments on that in October as well.

17 Clean energy resources, another
18 important priority for New York. We
19 fully support the State's efforts to
20 utilize and grow New York's renewable
21 resources. It is important for
22 customers that we enable renewable
23 energy in a cost effective manner.
24 Using utility deployment for solar and
25 other renewable energy sources can help

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2 here and we can deploy across a large
3 number of customers quickly and
4 investing in the transmission system as
5 required to bring those renewable
6 sources of power, deliver them through
7 the system to the customer load areas.

8 The transmission system is the
9 backbone upon which we will be able to
10 reach this energy future and it's
11 important we have enabling transmission
12 policies in the areas of planning,
13 siting, cost recovery to help New York
14 reach its goals. Deploying Smart Grid
15 technology is also a key enabler to
16 tapping into opportunities for clean
17 energy in New York.

18 National Grid recently filed with
19 the Department of Energy a Smart Grid
20 program for New York that would serve
21 82,000 customers across New York and is
22 really geared to help folks manage their
23 energy costs, but at the same time to
24 accelerate learning about how to
25 integrate renewable resources,

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2 distributed resources, electric
3 vehicles, and more into the grid.

4 So we encourage the board to
5 develop action plans to help us get
6 renewable resources to customers in a
7 cost effective way. And again, National
8 Grid will be providing its views on
9 actions to help with that.

10 More generally, as the Draft Plan
11 recognizes, achieving New York's goals
12 will require considerable investment in
13 the energy networks and infrastructure,
14 and National Grid stands ready to help
15 with this investment, but we cannot do
16 it without a supportive investment
17 climate.

18 New York's policy and regulatory
19 framework must provide for timely
20 recovery of costs and industry standard
21 returns to be able to provide the kind
22 of investment that will bring the
23 investors' money into New York rather
24 than other states.

25 So again, thank you very much.

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2 I'm very happy to be here and part of
3 the ongoing dialogue for New York's
4 energy future. We look forward to
5 continuing to work with you, other
6 entities, customers, and all to help
7 reach this energy future. Thank you
8 very much.

9 MR. CONGDON: Thank you very
10 much. Our next speaker is Chloe
11 Tribich.

12 MS. TRIBICH: My name is Chloe
13 Tribich. I'm from the Center for
14 Working Families, which is a nonprofit
15 organization that's currently in the
16 process of preparing for the
17 implementation of the Green Jobs Green
18 New York Program. Some of you may be
19 familiar with it.

20 It's an unprecedented energy
21 efficiency retrofitting program that
22 would use a government-regulated private
23 investment fund to retrofit a million
24 homes and businesses in New York State
25 in five years.

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2 So just to express thanks to the
3 members of the -- of the board for
4 putting forth the Energy Plan that we're
5 here to talk about. I just want to
6 point out a couple of things in relation
7 to the Plan.

8 One is that it's -- the Center
9 for Working Families believes that it's
10 a great start. We think in order to
11 meet even more ambitious goals, such as
12 reduction of 80 by '50, we would need to
13 take into account a few elements.

14 One is the strong need for a
15 science based or whole-house approach to
16 energy and energy efficiency. It's not
17 enough just to replace a boiler here or
18 furnace there, but we need to understand
19 how the entire structure works in order
20 to maximize efficiency.

21 The other element is fuel-buying
22 programs with FEC dollars. It's not
23 fair to require that electric customers
24 whose electricity is efficient not to be
25 able to use that funding for other

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2 energy efficiency retrofits. Again we
3 think fine-line programming would allow
4 us to meet even more ambitious energy
5 efficiency goals than those that are
6 already set out.

7 Finally, I want to emphasize the
8 importance of continuity of programming.
9 Contractors and community groups and
10 building owners have helped plan their
11 futures and planned their businesses
12 based on the wide and extremely valuable
13 array of NYSERDA programs that currently
14 exist, and the recent PSC decision to
15 dramatically reorganize the multifamily
16 program, I think, has been -- has
17 presented enormous obstacles for
18 contractors and for others who depend on
19 the continuity.

20 And it's difficult to maintain
21 trust and bring all these crucial
22 parties together to work towards energy
23 efficiency if it's going to be
24 problematic of people like that.

25 And then finally the last point

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2 that we want to make is about job
3 standards. We believe that any energy
4 efficiency plan that -- that can be --
5 that can truly bring all the necessary
6 parties to the table and make sure that
7 a green economy and a just economy
8 should include job standards that
9 address the needs of low-income
10 communities and their contractors.
11 That's all I have for today. Thank you
12 very much.

13 MR. CONGDON: Thank you, Chloe.
14 We're going to take a five-minute
15 recess, and we will reconvene in five
16 minutes if there are further speakers
17 who wish to provide a statement. Thank
18 you very much.

19 (A brief recess was taken.)

20 MR. CONGDON: I'd like to thank
21 everyone for attending today. There are
22 no further names on our list for folks
23 who wish to provide a public statement,
24 so we're going to gavel out here.
25 Thanks again for everyone's

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participation. We greatly appreciate
the feedback. Thank you.

(Time noted: 1:27 p.m.)

