

1 NEW JERSEY BOARD OF PUBLIC UTILITIES

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3 IN RE: :
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5 Energy Master Plan Update : Public Hearing
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12 Transcript of proceedings taken on
13 August 13, 2015, at 1:00 p.m. at the State House
14 Annex, 125 W. State Street, Trenton, NJ 08026.

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1 APPEARANCES:

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3 Richard Mroz - President

4 Cynthia Covie - Chief Counsel

5

ALSO PRESENT:

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Diane Solomon - Commissioner

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1 MR. Mroz: Good afternoon, everyone.

2 Good afternoon. I will call this public
3 hearing to order.

4 Could I have your attention, please.

5 Good afternoon, everyone. My name is
6 Richard Mroz, I am the president of the New
7 Jersey Board of Public Utilities and I am
8 serving as the hearing officer for today's
9 hearing on the Energy Master Plan update.

10 Pursuant to the Open Public Meetings
11 Act, the New Jersey Public Utilities Board
12 has provided notice of three scheduled
13 Public Hearings to solicit comments for an
14 update of the 2011 Energy Master Plan.

15 Adequate public notice has been given
16 pursuant to the Open Public Meetings Act -
17 notice having been posted at the Board's
18 office and having been delivered to the
19 Department of State and to newspapers of
20 broad circulation within the state.

21 (Pledge of Allegiance)

22 MR. Mroz: We're here today to take
23 comments on updating New Jersey's Energy

24 Master Plan which was released by Governor
25 Christie on December 2, 2011. This is the

Public Hearing

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1 second of three hearings that the Board of
2 Public Utilities will host. I may be
3 joined by my fellow commissioners and I
4 know Commissioner Joe ^ Talesso is here in
5 the back room, Commissioner ^ use take
6 lieutenants so maybe will join us here on
7 the side, to go through this, but I will
8 preside today as the public hearing officer
9 and along with other staff people who are
10 sitting up here as well.

11 Now, we're here today to take
12 comments. We have to digest what is
13 presented and said and we will welcome
14 additional public comments.

15 Information on where to send written
16 comments via email or regular mail can be
17 found on the State Energy Master Plan
18 Website, which is found at www.nj.gov/emp.
19 All comments must be submitted by the close
20 of business on Wednesday, August 24th,
21 2015.

22 The 2011 Energy Master Plan is a

23 strategic division for the use, management
24 and development of energy in New Jersey
25 over the following decade. The specific

Public Hearing

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1 recommendations in the 2011 plan focus on
2 both initiatives and mechanisms which set
3 forth energy policy to drive the state's
4 economy while maintaining New Jersey's
5 strong commitment to preserving and
6 protecting the state's environment. We
7 request that comments be focused on the
8 specific goals and recommendations in the
9 2011 Energy Master Plan and/or regarding
10 several other areas that have emerged since
11 2011.

12 The 2011 EMP contains five
13 over-arching goals:

14 First, to drive down cost of energy
15 for all customers.

16 Second, to promote a diverse
17 portfolio of new, clean, in-state
18 generation.

19 Third, to reward energy efficiency
20 and energy conservation and reduce peak
21 demands.

22 Fourth, to capitalize on emerging
23 technologies for transportation and power
24 production.

25 And last, to maintain support for the

Public Hearing

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1 renewable energy portfolio standard of 22.5
2 percent of energy from renewable sources by
3 2021.

4 In addition to the overarching goals,
5 the 2011 Energy Master Plan contains 31
6 specific policy recommendations that fall
7 into four general sections.

8 First, to expand in-state electricity
9 resources.

10 Second, cost-effective renewable
11 resources.

12 Third, promote cost-effective
13 conservation and energy efficiency, and
14 also to support development of innovative
15 energy technologies.

16 New Jersey has made good progress
17 toward achieving the five overarching goals
18 and many of the 31 policy recommendations.

19 Overall, New Jersey has lower energy costs,
20 while at the same time advancing energy

21 efficiency demand response and renewable
22 energy.
23 The State has fallen from a very high
24 energy cost state. In fact, according to
25 U.S. energy information administration's

Public Hearing

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1 ranking of state residential retail natural
2 gas prices, New Jersey's ranking has
3 plummeted from 17th highest cost state in
4 the nation to 50 in 2010, the lowest cost
5 state in the country. New Jersey's decline
6 in the EIA state ranking for the cost of
7 electricity, while not as dramatic as is
8 with natural gas, has followed the same
9 downward trend.

10 In 2010, New Jersey was ranked as the
11 fourth highest average retail price of
12 electricity for the residential sector.
13 The state now ranks number 10 in EIA's most
14 recent report. But while New Jersey's
15 average residential retail electricity
16 price ranking fell 6 spots, more needs to
17 be done to bring down the price further for
18 all customers in all sectors. The natural
19 gas infrastructure in New Jersey has

20 allowed New Jersey to take advantage of low
21 natural gas prices, providing residents and
22 business with the benefit of lower energy
23 costs. In addition to the lower cost for
24 energy, the state's electric energy
25 resource are diverse and cleaner. New

Public Hearing

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1 Jersey has recently ranked 46th in
2 emissions from electric generation, despite
3 being the 22nd largest generating state.
4 This is a direct result of the state's
5 current mix of nuclear and natural gas and
6 renewable resources. New Jersey continues
7 to meet its renewable energy standards,
8 portfolio standard which requires nearly
9 15 percent in electric by the year 2016 of
10 all electricity consumed in the state to be
11 recognized as coming from renewable sources
12 three class one; class two, and SRECs. And
13 with the state's total installed solar
14 capacity surpassing 1.5 gigawatts, solar
15 accounts for almost three percent of the
16 state's generation mix. And according to
17 the solar energy industry association's
18 state rankings, New Jersey continues to be

19 ranked number three, as having the third
20 highest amount of installed solar capacity
21 behind only California and Arizona.

22 New Jersey has also had success in
23 reducing energy usage through its support
24 for demand reduction and energy efficiency
25 technologies. New and changing challenges

Public Hearing

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1 need to be met to continue growth in the
2 implementation of energy efficiency
3 technologies in a market that is still
4 growing, but reaching maturity. To this
5 end, we have been engaged the electric
6 distribution companies and (inaudible) in
7 our efforts to assess the relationship
8 between energy efficiency programs operated
9 by New Jersey's clean energy program, and
10 those run by the companies.

11 This analysis will help to inform the
12 board's decisions on how to best coordinate
13 energy efficiency efforts for the benefit
14 of all rate payers. As was mentioned the
15 other day by speakers at Tuesday's public
16 hearing at Seton Hall Law School,
17 construction codes play a significant role

18 in implementing energy efficiency
19 technologies. The Department of Community
20 Affairs in the State of New Jersey, is the
21 agency responsible for the disposition of
22 the construction codes and recently
23 proposed adopting the international energy
24 construction codes in June and will be
25 publishing the notice of the final

Public Hearing

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1 disposition in the New Jersey register in
2 September.

3 According to DCA these new codes will
4 increase energy efficiency, in commercial
5 buildings and residential dwellings by 27
6 percent and 16 percent respectively above
7 current codes while overall there will be
8 much progress on the implementation of the
9 goals of the 2011 EMP. There is always
10 room for improvement.

11 For instance, New Jersey is on target
12 to meet its goals for new disputed
13 generation, however, the (inaudible) of new
14 combined heat and power being developed in
15 the states is not on target to meet its
16 goal. Since the release of the 2011 EMP,

17 New Jersey has suffered devastating damage
18 from the impacts of Super Storm Sandy and
19 other major weather events. The Christie
20 administration has made it a priority to
21 improve energy resiliency and emergency
22 preparedness and response; therefore, we
23 will address these high priority areas in
24 updating the EMP. Potential policy
25 recommendation in this new section would be

Public Hearing

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1 based on New Jersey's plan for action in
2 the aftermath of Super Storm Sandy and may
3 include the following:

4 First, protecting critical energy
5 infrastructure; next, improving the
6 electric distribution company's emergency
7 preparedness and response; third,
8 increasing the use of micro grid
9 technologies and applications for disputed
10 energy resources. And as well as creating
11 long-term financing for resiliency measures
12 such as those through the energy resilience
13 bank.

14 Now, after today's hearing, before we
15 hear, I'd just like to explain a few

16 matters that will help us proceed. We have
17 quite a few people who are registered to
18 speak and I expect others who are signing
19 in now, who wish to speak as well, so if
20 you do wish you speak and have not already
21 done so, please sign in the back and
22 indicate that you do wish to speak. To
23 provide an opportunity for all to give
24 their comments, I would ask you to limit
25 your remarks to three minutes. Keeping

Public Hearing

12

1 within that time, it will help ensure that
2 everyone has an opportunity to be heard
3 today. I understand this is a relatively
4 short period of time to convey your
5 thoughts, so I ask you to focus on the
6 specific goals and recommendations of the
7 2011 Energy Master Plan and the emergency
8 issues since 2011.

9 If there is a portion of the plan that
10 you take issue with factually or as a
11 matter of policy, please indicate that
12 specific factual or policy concern and
13 state your recommendation; however, I would
14 expect that comments offered are factual

15 and objective, and that others respect the
16 speaker's right to make such comments and
17 they are not met with disrespect, animosity
18 or other disruptive behavior.

19 In the event there is behavior that
20 disrupts this hearing, I will adjourn the
21 hearing immediately, until such time that
22 we can continue the hearing with the
23 decorum that is required of such a hearing.

24 If you have a written statement that
25 will be provided to us, please give a

Public Hearing

13

1 synopsis. There is no need to read the
2 entire statement into the record, as the
3 written statement will serve as your
4 comments. For participants planning to
5 attend more than -- as well as this hearing
6 and the next which is our last, I would ask
7 you not to repeat your comments at each of
8 the next hearings. This will help us to
9 make sure that everyone has an opportunity
10 to be heard.

11 If comments made by a previous speaker
12 reflect those that you wish to make, please
13 indicate that and try to keep your comments

14 as brief as possible. We're here today to
15 listen. No decisions will be made here
16 today or at any of the public hearings. I
17 will keep any questions to a minimum,
18 limited to only those required for -- that
19 I feel are necessary for purposes of
20 clarification. We will post all comments
21 made at the public hearing, this and the
22 other public hearings on the EMP website.
23 Once again that website, if you don't have
24 it, is www.nj.gov/emp.

25 As for the next steps in this process,

Public Hearing

14

1 we'll have one other public hearing which
2 will be at Stockton -- Stockton University,
3 on Monday, August 17th from 1 to 5.
4 As I mentioned earlier, written
5 comments are encouraged and the deadline to
6 submit those comments is August 24th. Now,
7 following the written comment period, staff
8 of the various agencies that compiles the
9 Energy Master Plan committee, including my
10 colleagues who include the commissioners of
11 the DEP, the commissioner of the Department
12 of Community Affairs, Department of Health

13 and Senior Services, DOT and the treasurer,
14 will begin reviewing all comments received
15 and the process of updating the Plan will
16 go forward.

17 We will not establish a timeframe to
18 announce the updates but we will do so
19 after reviewing all of the public comments.

20 We will need some time to digest the
21 comments and have internal discussions
22 regarding them. Once we have done that, we
23 will provide a timeframe for finalizing the
24 2011 EMP update.

25 Now, I have a list of speak -- we can

Public Hearing

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1 proceed with comments of those that wish to
2 speak. I have a list of those who have
3 pre-registered and indicated they wish to
4 speak and I'll call them up here to speak.

5 Michele Rossi is sitting here at the
6 front, will help anyone with the
7 microphone, I would ask you to turn on the
8 microphone and you can identify yourself
9 and if you represent any particular
10 organization. And also before we continue
11 on, I would like to indicate our other

12 colleague, Commissioner Diane Solomon also
13 joined us as well. So let me indicate that
14 the first several speakers that we will
15 take. Order are Stephanie Brand, Rate
16 Counsel. Mike Egerton from New Jersey
17 Chamber of Commerce and Rob Gilbert from
18 Direct Energy. First Ms. Brand. Good
19 afternoon.

20 MS. BRAND: Good afternoon. Thank
21 you for having us today. I'll try to speak
22 as quickly as I can, but three minutes is a
23 very short period of time. I did testify
24 in Newark and I am not going to repeat what
25 I talked about there but I did rush through

Public Hearing

16

1 the second half of my presentation so I
2 will probably pick up where I left off. I
3 do want to say a couple of things.

4 First of all I certainly hope that
5 there will be an opportunity for the public
6 to comment in writing on any written update
7 that comes out and that is complicated by
8 the statute and we do think it's a very
9 important part of the process and we
10 appreciate the opportunity to testify now

11 while the state is considering what to put
12 in the update, but we would also like the
13 opportunity at least in writing to comment
14 on that update.

15 I also want to comment on the view
16 that New Jersey is no longer a high cost
17 energy state. I don't think that's really
18 accurate, but there are certainly ways in
19 which New Jersey has reduced its cost along
20 with the rest of the country because of
21 falling natural gas prices, but we also are
22 above average in terms of the electricity
23 costs and our rankings have fallen mostly,
24 not because our prices are going down, but
25 because other people's prices are going up,

Public Hearing

17

1 and that's something that is a great credit
2 actually, that our prices have remained
3 stable and that's a very good thing, but I
4 think it would be a mistake for us to rest
5 on any laws, and think we're no longer a
6 high cost energy state, I think that
7 they're a lot of ways in which we can
8 improve upon that trend.

9 I am going to skip over, talking about

10 the (inaudible) issues that were in the
11 notice because I talked about them in
12 Newark, but did want to touch briefly on
13 specifically the recommendations and goals
14 that were in the 2011 Energy Management
15 Plan regarding solar and energy efficiency.
16 We're very supportive of the overarching
17 goals from the 2011 EMP about driving cost
18 down for consumers, promoting diverse
19 portfolio of generation, promoting energy
20 efficiency in peak demand reduction and
21 supporting the use of renewable resources.
22 We also very much support -- well, it
23 was actually something new in the 2011 plan
24 which requires the rigorous testing of the
25 net economic (inaudible) New Jersey rate

Public Hearing

18

1 payers of all of these programs. So we
2 totally support maintaining these goals, we
3 think we have come a long way but we do
4 believe that there is more to do.

5 With respect to solar, we think that
6 -- we would recommend that while we
7 maintain (inaudible) that there be no new
8 financial commitments for New Jersey rate

9 payers. As you know, we have already
10 committed quite a bit of rate payer funding
11 to jump start the solar energy industry.

12 There has been \$950 million dollars
13 paid by New Jersey Rate payers (inaudible)
14 \$360 million paid for SPC charges related
15 to the solar program. And another \$480
16 million paid by for other legal (inaudible)
17 and another \$328 million of utility
18 programs to support solar.

19 We think the solar industry has been
20 jump started. We have a tremendous history
21 of (inaudible) in this state in terms of
22 solar energy, despite what some people may
23 tell you. We're leading the (inaudible)
24 and we have been for several years, we
25 anticipate that we will continue to. Solar

Public Hearing

19

1 capacity continues to grow in this state.
2 Our insulations have increased twelve to
3 sixteen percent, which is up for 2013.
4 We're seeing a robust industry and solar is
5 becoming more affordable for households and
6 middle income and lower income customers in
7 New Jersey.

8 We also have seen tremendous price
9 drops in the cost of building solar and for
10 this reason we don't believe that the
11 industry needs additional subsidies. We're
12 seeing tremendous cost effectiveness within
13 the industry and we think that the
14 commitment that New Jersey rate payers made
15 to that industry have worked and are
16 sufficient going forward.

17 With respect to energy efficiency, we
18 do think that further work is required.
19 According to the agency, we believe
20 standards, we ranked twenty-six in the
21 country, savings (inaudible) of retail
22 sales. It appears that our (inaudible)
23 consumption is actually close to the EMP
24 target for this year but that there will be
25 a growing disparity as we go forward with

Public Hearing

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1 those targets, so we need to step up our
2 work in this regard.

3 We have been working with utilities
4 and this office of clean energy to try to
5 figure out the best way to design our
6 energy efficiency program so we can provide

7 the best product and open optimize the
8 delivery of services. As you know OCE is
9 working on getting a single program
10 administrator. We think that will be a
11 tremendous help. We're also working on
12 getting utilities to provide us with a
13 better measurement and verification with
14 more information so that we can really
15 assess whether or not their programs are
16 working as we want them to be, and whether
17 or not changes are required.

18 In our view, we figure there needs to
19 be a division between work done by OCE and
20 the work done by the utilities. We think
21 that the utility programs should not simply
22 supplement what OCE is doing. We think
23 they should be innovative and they should
24 provide new approaches that (inaudible) and
25 there are certain things that the utilities

Public Hearing

21

1 are in a better position to do and they
2 should focus on those things because we do
3 pay a premium when utilities do that work.
4 So we're working with both the state and
5 with utilities in making that better. We

6 would also like to see more programs for
7 low income customers, there was a recent
8 study by (inaudible) that showed that the
9 program failed to achieve expected savings
10 and the exhibited weakness in the
11 (inaudible) process. We would like to see
12 that improved and we would like to see the
13 recommendations given in the pilot program
14 in the (inaudible) report, we addressed.

15 I'm glad to hear about the updated
16 building standards. I would like to see
17 updated appliance standards as well, we
18 think they are tremendous bang for the
19 buck, as they say, in terms of achieving
20 energy efficiency.

21 And then finally I think we're working
22 directly by (inaudible) power, we have not
23 seen (inaudible) we thought would be there
24 and I think it's important to our program
25 so that we can figure out whether there is

Public Hearing

22

1 interest and if so, how we can make the
2 program better going forward.

3 MR. Mroz: Thank you very much for
4 your comments and for the record, we do

5 have your written statement and I think it
6 incorporates all of your comments and I'm
7 sure you might make others, but we do have
8 that as part of the record already.

9 MS. BRAND: Yes, you do, and we will
10 be submitting written comments by the
11 deadline.

12 MR. Mroz: Very good. The next
13 commenter is Michael Egenton from the New
14 Jersey Chamber of Commerce.

15 MR. EGENTON: Thank you President
16 Mroz and members of the BTU for giving us
17 the opportunity to provide input on the
18 Energy Master Plan. I am Michael Egenton,
19 Senior Vice President, Government Relations
20 for the New Jersey State Chamber of
21 Commerce. I won't be reading from my whole
22 testimony so I will bounce around a little
23 bit.

24 Energy is the life blood of the
25 economy, reliable, safe, reasonably-priced

1 and environmentally sound energy supply is
2 essential for New Jersey's economic
3 progress. The State Chamber supports a

4 balanced approach toward achieving the EMP
5 goals that doesn't depend on rely on one
6 method, one technology, one fuel source, or
7 overburden one segment of the economy or
8 group of energy consumers.

9 We believe the EMP sets very
10 reasonable and attainable goals in its
11 blueprint for New Jersey's energy future.
12 However, since the adoption of the 2011
13 EMP, New Jersey has experienced a number of
14 events that have affected New Jersey's
15 energy infrastructure in a different
16 manner. To that end, I would like to
17 recognize the State's efforts in adopting
18 programs to harden the power grid in the
19 wake of recent extreme weather events, like
20 Super Storm Sandy.

21 The reliability and resilience of our
22 energy, along with our other transportation
23 systems, are key to our businesses and
24 their operations in the State.

25 I would like to touch upon a couple of

Public Hearing

24

1 key items in my testimony.

2 Reliable and resilient infrastructure;

3 The EMT should support further efforts to
4 continue resiliency and infrastructure
5 investment progress in the accelerated
6 replacement of aging infrastructure and
7 modernizing our electric system.

8 In-State Generation, the State Chamber
9 believes that competitive wholesale and
10 retail energy markets continue to deliver
11 benefits to the State and that
12 well-structured competitive markets will
13 provide the best pathways to reaching the
14 State's goals.

15 With regard to nuclear power, it is
16 the most vital source of low cost, clean,
17 carbon-free, base load electric generation
18 in the State. Nuclear energy continues to
19 be an important part of America's and New
20 Jersey's diverse energy portfolio,
21 providing reliable base load electricity
22 around the clock. Nuclear generation
23 provides nearly 20 percent of our country's
24 electricity and accounts for 52 percent of
25 our annual in-state power generation.

1 The continued operation of Salem and

2 Hope Creek are critical to the reliability
3 of the system, particularly in light of the
4 scheduled retirement of Oyster Creek in
5 2019.

6 With regard to natural gas, is that
7 economically efficient and is a clean,
8 safe, and a reliable source of energy. New
9 Jersey is the least expensive in the nation
10 for residential retail natural gas prices,
11 dropping from 17th most expensive in 2010,
12 according to the U.S. Energy Information
13 Administration.

14 Shale gas discoveries throughout the
15 United States, have enabled developers to
16 bring significant new domestic natural gas
17 supplies to consumers. As a matter of
18 fact, Regional Greenhouse Gas Initiative
19 Chairwoman, Katie Dykes, recently said at
20 an event hosted by the Center for Strategic
21 and International Studies in Washington,
22 DC, that, quote, because we made such a
23 rapid transition to natural gas-fired
24 generation in New England, we have work to
25 do to get gas pipeline infrastructure

1 developed to serve that gas generation.
2 Just a little segue into the B.I. England
3 Power Plan Renovation. I want the members
4 of the board to know that the State Chamber
5 continues to support this major project in
6 South Jersey that will provide the B.I.
7 England electric generation plant in
8 Beesley's Point with the natural gas supply
9 it needs, to stop burning coal, and pave
10 the way for it become one of the cleanest
11 power plans in New Jersey.

12 Under the plan, the plant will no
13 longer operate on coal and oil. Instead,
14 the project calls for re powering one of
15 the plant's units with a state-of-the-art
16 combined-cycle natural gas turbine and re
17 powering another unit with natural gas.
18 This will place it among the cleanest power
19 plants in New Jersey.

20 With regard to energy efficiency, The
21 State Chamber recognizes the importance of
22 energy efficiency to achieve business and
23 environmental goals. For businesses, using
24 energy more efficiently saves, money,
25 reduces operating cots, increases

1 competitiveness, and promotes job retention
2 and creation.

3 With regard to renewal, Solar, New
4 Jersey ranks among the top three states in
5 the U.S. for total installed solar
6 capacity. We have historically at the
7 State Chamber, supported the EMP objectives
8 to encourage solar development at sites
9 such as landfills, brownfields, warehouses,
10 and government facilities that provide
11 potential for larger installations, improve
12 economies of scale, and that would return
13 unproductive or underutilized sites to
14 societal use.

15 Several developers over the years have
16 expressed interest in building wind farms
17 off the coast of New Jersey. We believe
18 the State must undergo an extensive
19 analysis and evaluate the economic benefits
20 of any proposed projects. We support the
21 BPU's due diligence process to safeguard
22 the interests of ratepayers, making sure
23 that we avoid any undue economic burdens.
24 We would further suggest that he State
25 engage our local and regional changers of

1 commerce, particularly the ones along the
2 Jersey costal area, when and if such
3 projects are under consideration.

4 A few brief words on energy and the
5 environment. Of the 13 states comprising
6 the PJM transmission region, New jersey has
7 by far the lowest CO2 emission rate from
8 its power sector. New Jersey has already
9 achieved the 2020 target for CO2 emissions
10 set by the New Jersey's Global Warming
11 Response Act. As we provide affordable and
12 clean energy, it is important to note that
13 the State needs to have at its disposal
14 methods and tools available when regional
15 cooperation and collaboration do not
16 provide the necessary end results. The EPA
17 in October 2011, granted New Jersey's
18 Section 126 petition, to force dramatic
19 reductions of air emissions from GenOn's
20 Portland Generation Station in Northampton
21 County, Pennsylvania. Sulfur dioxide
22 mercury and many other contaminants emitted
23 into the air from this facility were
24 carried in the atmosphere across the
25 Delaware River to communities in Warren

1 County and also negatively impacted air
2 quality in Morris, Sussex and Hunterdon
3 counties. This was the first single source
4 126 Petition the EPA has ever granted under
5 the Clean Air Act. The first time it has
6 granted a petition for a power plant
7 bordering another state. We commend the
8 State regarding the end result, the closure
9 of that facility in Pennsylvania.

10 Very briefly, Energy and the
11 Transportation Sector, I would encourage
12 the Board to look at several reports as a
13 member of the New Jersey Clean Air Council
14 that we put together annually and we submit
15 to Commissioner Bob Martin, the two most
16 recent reports last year are Reducing Air
17 Emissions Through Alternative
18 Transportation Strategies and this year's
19 report Air Pollution Knows No Bounds, which
20 contain several suggestions to enhance the
21 use of alternative fuel vehicles. One such
22 recommendation is to explore public/private
23 partnerships for charging/filling stations
24 that include reasonable cost recovery

1 assistance with permitting and licensing.

2 Fuel Cell Technology is something that

3 we support. The only byproduct of this

4 technology is water. Because fuel cells

5 have no moving parts and do not involve

6 combustion. This technology has the

7 potential to achieve greater efficiency.

8 The State Chamber encourages the State to

9 work with and support the research of New

10 Jersey's academic institutions to pursue

11 making fuel cell technology another viable

12 option for our energy demands. And

13 finally, last but not least, just a few

14 brief thoughts on the Clean Power Plan.

15 While we at the State Chamber are

16 still analyzing the overall impact, we are

17 concerned that EPA's proposal could hurt

18 our state and the progress that we have

19 made in reducing carbon dioxide emissions.

20 New Jersey should be recognized as a

21 leader. We need to make sure that all

22 states are held to the same standards that

23 New Jersey has set for our power producers.

24 Our members have made the cost commitments
25 to install state of the art equipment at

Public Hearing

31

1 their facilities. In the end, we only
2 truly benefit if our regional neighbors and
3 the rest of the nation follow our lead.

4 Again, thank you. I appreciate the
5 opportunity to comment and like I said, our
6 written comments are more detailed.

7 MR. Mroz: Thank you very much. Our
8 next person to comment on the
9 pre-registered list is Tom Gilbert from the
10 New Jersey Conservation Foundation.

11 MR. GILBERT: Good afternoon. My
12 name is Tom Gilbert and I am campaign
13 director for energy, climate and natural
14 resources with the New Jersey Conservation
15 Foundation.

16 Since 1960, we have saved more than
17 130,000 acres of land from sprawl
18 development. Today we're fighting a new
19 sprawl, from (inaudible) to energy
20 infrastructure. Simply put, pipelines,
21 transmission lines and transfer stations
22 now threaten thousands of acres of land.

23 Nowhere is it more apparent than the
24 current rush to build more gas pipelines in
25 New Jersey. The PennEast pipeline alone

Public Hearing

32

1 would cut through 3,300 acres of preserved
2 land, fragmenting forests and farms, and
3 impacting dozens of high quality streams
4 and drinking water supplies. There is a
5 better way forward.

6 As we see it, the Energy Master Plan's
7 focus on energy efficiency and renewables
8 is right on the money, but there is an
9 urgent need to invest more and move mch
10 more quickly in these areas.

11 The best kind of energy is energy we
12 don't use. Energy efficiency and
13 conservation will save land, save consumers
14 money, reduce emissions and create jobs.

15 For example, California's landmark
16 energy efficiency programs have reduced
17 personal electricity use by 40 percent
18 below the national average and resulted in
19 \$56 billion in household energy savings.
20 By creating 1.5 million jobs with a total
21 payroll of \$45 billion.

22 According to the national Association
23 of State Utility Consumer Advocates, with
24 or without the Clean Power Plan, states
25 that pursue renewables and energy

Public Hearing

33

1 efficiency will see smaller increases in
2 total electric costs through 2030 than they
3 would with any other investment strategy.

4 The plan can and should do more to
5 promote energy efficiency and renewables.
6 They represent a true win-win for the
7 environment and economy.

8 Unfortunately, an over-reliance on
9 natural gas runs the risk of locking the
10 state on the wrong energy path, especially
11 the expansion of natural gas pipelines that
12 are designed to last for decades, while we
13 need a rapid transition away from fossil
14 fuels to renewables and energy efficiency.

15 There have been several new gas
16 pipelines constructed in central and
17 northern New Jersey over the past few years
18 and three more are currently under review
19 by the FERC or BPU.

20 These pipelines impose huge costs on

21 our environment and communities, from
22 damage to preserved lands and natural
23 resources to impacts on landowners, public
24 health and safety. And there is much
25 debate about whether the gas to be carried

Public Hearing

34

1 by these proposed pipelines is needed in
2 New Jersey, or is just the Marcellus tail
3 wagging the energy dog.

4 A recent analysis conducted by
5 Labyrinth Consulting found that the
6 proposed PennEast pipeline alone would
7 result in a 53 percent surplus beyond
8 current demand in Pennsylvania and New
9 Jersey, and concluded that the gas is bound
10 for other markets, including export
11 overseas.

12 We have been surprised to learn that
13 pipelines are currently considered in
14 isolation with no single state or federal
15 entity looking at the bigger picture to
16 determine if all this gas is really needed,
17 and whether better alternatives exist.

18 It's like letting corporations build toll
19 roads wherever they want without a

20 transportation plan.

21 The BPU could have an important role
22 to play here if it had a mandate and
23 capacity to develop a comprehensive energy
24 plan for the state.

25 This is a new era for energy in New

Public Hearing

35

1 Jersey and nationally. And we at a fork in
2 the road and we need to decide if we are
3 going to build a much longer bridge that
4 relies on natural gas for decades through
5 an expanded network of pipelines, or we
6 lead the way in the transition to the new
7 energy era through renewables and
8 efficiency.

9 We urge you to take the right road,
10 and catalyze a rapid transition to
11 renewables and energy efficiency as the
12 best means to meet the state's energy needs
13 and to lower carbon emissions. And we
14 thank you for the opportunity to comment.

15

16 MR. Mroz: Thank you for your
17 comment. The next several speakers, so you
18 know who will be up here that are

19 pre-registered are Amy Hansen also from the
20 New Jersey Conservation Foundation and then
21 Andrew Kendry from New Jersey utilities
22 Association and Jack (inaudible) from the
23 Sierra club. Miss Hansen?

24 MS. HANSEN: Good afternoon, I am Amy
25 Hansen, policy analyst with New Jersey

Public Hearing

36

1 Conservation Foundation. We do appreciate
2 the opportunity to comment. Our state's
3 energy policy in New Jersey has the
4 potential to provide solutions that
5 decrease the threat that climate change
6 poses to our land, our clean drinking
7 water, tourism, recreational opportunity,
8 wild life habitat and historic, scenic and
9 cultural landscapes.

10 New Jersey's energy policy has quite a
11 potential to place in the right direction
12 and decrease our climate change impact.
13 The 2011 Energy Master Plan must be
14 updated. We urge the state to create a new
15 EMP that truly reflects the world we live
16 in today and protects our children and
17 provides future generations with a clean

18 energy legacy of which we can be proud.
19 How are we going to accomplish it?
20 First, by increasing our use of the best
21 type of energy possible, energy
22 conservation and efficiency. We agree with
23 the EMP as it states, the best way to lower
24 individual energy bills and Collective
25 energy rights is to use less energy.

Public Hearing

37

1 Reducing energy costs through conservation,
2 energy efficiency and command response
3 program is lowers the cost of doing
4 business in the state, enhances economic
5 development, and advances the state's
6 environmental goals. However, we have yet
7 to fully tap into these benefits. The EMP
8 should increase its goals for energy
9 reduction to, at a minimum, of 30 percent
10 by 200030, and more, going forward. We
11 already have a mechanism in place to fund
12 clean energy and efficiency programs - the
13 Societal Benefits Charge which must be
14 permanently dedicated and not diverted to
15 other uses as it has been for years.
16 Enacting an energy mission see resource

17 standard is much more important. New
18 Jersey conservation applauds the EMP's
19 clear recommendation that preserved
20 farmland and open space remains protracted
21 in perpetuity. It is also critical that
22 additional productive farmland, forests and
23 open space be permanently preserved and
24 that renewable solar facilities be located
25 appropriately on rooftops, abandoned

Public Hearing

38

1 shopping centers, parking lots, brownfields
2 and landfills that are located near
3 existing infrastructure. The EMP does not
4 support the use of rate payer subsidies to
5 turn productive farmland into industrial
6 solar facility. This is an excellent
7 policy as we should not be using green
8 fields for development, nor forests, not
9 even renewable energy development given the
10 numerous more appropriate locations
11 available. Another great benefit of energy
12 efficiency, is that it protect New Jersey's
13 large investment in preserved land. We
14 need to ramp up our renewable portfolio
15 standard from 22.5 percent so that at least

16 30 percent of our power comes from
17 renewable sources by 2020. New Jersey can
18 achieve this incredibly important goal by
19 investigating more in solar and wind and
20 clean technology. Renewable and efficiency
21 are becoming cost competitive with natural
22 gas, and programs to be the low cost energy
23 source in the near future. The advanced
24 energy economy, a consortium of leading
25 businesses recognizes that solar will

Public Hearing

39

1 continue to grow based on declining costs.
2 We see a very bright future, one
3 accomplishes an even more aggressive goal
4 of an 80 percent RPS by 2050. Our state
5 boasts many excellent colleges and
6 universities, and we need to tap more fully
7 into these resources.

8 The EMP calls for more capitalization
9 in emerging technology such as energy
10 storage. We support more funding for
11 research in this field, one example
12 importance of keeping solar systems
13 operational in resilient in times of grid
14 failure, was seen during Hurricane Sandy

15 when Advanced Solar Products' arrays
16 attached to a diesel generator at a school
17 in Bayonne, enables the school to function
18 and an overnight shelter for those without
19 power in their homes.

20 Finally, New Jersey is missing out on
21 millions of dollars, as well as the job
22 creation enjoyed by the other states still
23 enrolled in the regional Greenhouse Gas
24 Initiative. All our residents would
25 benefit if we re-enrolled in that

Public Hearing

40

1 successful program. New Jersey which could
2 fund stewardship plans and salt marsh
3 restoration for carbon sequestration
4 purposes. Auction proceeds would be a boon
5 for these and other programs that could
6 help create robust and innovative
7 partnerships with the other RGGI states to
8 achieve aggressive energy reduction and
9 decreased greenhouse gas emission goals.
10 Major clean energy investments are urgently
11 needed in response to global warming and
12 should be made instead of further
13 commitments to natural gas and its

14 infrastructure. We will all benefit from
15 these actions. Thank you.

16 MR. Mroz: (Inaudible) I want to
17 apologize to Ms. (Inaudible) because I
18 skipped over. She was on the
19 pre-registered list. So Sarah Bloom from
20 New Jersey Business Association.

21 MS. BLOOM: Thank you, Mr. President.
22 The (inaudible) represents twenty thousand
23 businesses in the state of all different
24 sizes and we're an active player in energy
25 policy, development within the State. We

Public Hearing

41

1 recently convened a couple of working
2 groups with our members to tackle some of
3 these issues and we will be giving you more
4 extensive next week, but we have been
5 looking at our overall investment in
6 infrastructure and the need for New Jersey
7 to stay competitive, and having these
8 investments and I think one of the things
9 that we have really been focusing on at GIA
10 (inaudible) is that we can't look at just
11 one sector of investment in infrastructure.
12 And we need to be looking at more of a

13 comprehensive long range plan so it's not
14 just electric or gas or water or
15 transportation but how do we look at all of
16 these? And be able to achieve a long term
17 plan that has efficiencies and cost
18 reduction while also maintaining improving
19 our infrastructure, so that's one of the
20 things that we've been committed to at GIA
21 in looking at solutions in that respect and
22 we're still working on that I think within
23 the different departments of state
24 government so that we have coordination
25 between BPU and DEP for the permits, and

Public Hearing

42

1 DOT when it comes to the roads, that we may
2 be replacing or having to pull up, and look
3 at how we can coordinate all of these
4 different actions together, and I think
5 right now we're on a shorter term plan
6 where we may not go beyond five years but
7 we're really looking at ten, twenty, thirty
8 years. Because there is quite a bit of
9 investment to make, and as we balance that
10 with rate payer facility to observe some of
11 this, this is some of the things that GIA

12 is looking at. I think one of the
13 immediate areas we look at, too, is
14 (inaudible) benefits charge and that we
15 need to revisit that and its impact on rate
16 payers, too.

17 But more pressing at the moment right
18 now has been many of the different federal
19 policy impacts, and another areas that are
20 out of our control, whether it be PERC or
21 (inaudible) or most recently the EPA Clean
22 Power Plan, and how those are going to be
23 impacting some of our planning here in New
24 Jersey, too, and taking that into account.

25 (Inaudible) very familiar with having

Public Hearing

43

1 to deal with regulation on all levels and I
2 think as we're trying to make these plans,
3 it's imperative to see where the potential
4 impact could be coming from and we were
5 disappointed, from the association side,
6 that we didn't give any credit for our good
7 work from 2001 to 2012, under the EPA's
8 plan and looking at how our (inaudible) for
9 energy compares to the rest of the country,
10 and how we really have had been a leader

11 and how we have had lower emissions,
12 (inaudible) we have been able to have a
13 nuclear suite that has provided (inaudible)
14 without emissions and looking forward at
15 how we continue to be there even in these
16 challenging circumstances where we are
17 being penalized for being good leaders.

18 And I think that some of the other
19 areas that an association member brought up
20 has been more of the basic and one of the
21 things that we have been looking at is
22 energy efficiency. How to tackle the
23 commercial office space. And I will be
24 having more comments for you there, too,
25 but a lot of this comes back down to is

Public Hearing

44

1 basic education and one of the things GIA
2 has fought for four years ago is the office
3 of (inaudible) but also looking that within
4 the energy efficiency market and we have
5 had some members tell us that, you know,
6 they don't really understand how CHP can
7 benefit, (inaudible) They know what it
8 means that the lights turn on, but they
9 don't necessarily always connect, how can

10 we become resilient, what are some of the
11 programs we can take advantage of, or some
12 of the issues right now surrounding tenant
13 versus landlord, and who's the (inaudible)
14 and how can we do energy efficiency through
15 the state and being able to look at maybe
16 some additional training for brokers,
17 (inaudible) negotiate, but how can we
18 factor in some of the energy efficiency
19 upgrades and the potential there
20 (inaudible) for the future.

21 We have also talked extensively with
22 our members about the energy natural
23 planning. Other areas that we could be
24 going and really looking at some of the
25 technology advancements and how they're

Public Hearing

45

1 impacting on our energy market.

2 We're big supporters of the pipeline
3 development here in New Jersey, looking at
4 how we can (inaudible), looking at how we
5 can expand our nuclear fleet as well, but
6 then recognizing, too, that we do have the
7 chance to develop our alternated fuel
8 vehicles on the commercial side, natural

9 gas fleet, are a potential option. We
10 think that's another area where the clean
11 energy program can be opened up, whether
12 it's for the installation of fueling
13 stations or (inaudible) retro to fit some
14 of the fleets, so that we can have the
15 emissions reductions, as well. And being
16 able to also partner, I think, with the EPA
17 in some of their programs. (Inaudible)
18 energy has a very recognized name and the
19 BPU in the past has worked with BIA and PPA
20 to reach out with some of their commercial
21 challenges and we would like to see more of
22 that going forward, too, I think they are
23 (inaudible) tenant's energy program, too,
24 and I think in terms of the overall best
25 practices to be able to share that among

Public Hearing

46

1 some of our utilities, our government
2 entities, that may not be necessarily
3 regulated by the BPU and try to figure out
4 how we can all work together so that we can
5 have a more resilient state, we can keep
6 the lights on more, we can hopefully manage
7 our energy costs, too (inaudible) and some

8 of the electricity. So we're very active
9 in that and we look forward to giving you
10 even more of our comments in the written
11 format.

12 MR. Mroz: Thank you, we will look
13 forward to your additional comments. Now,
14 Mr. Hendry from the New Jersey Utilities.

15 MR. HENDRY: Thank you, Mr. President
16 and commissioner. My name is Andrew
17 Hendry, I am the President of the New
18 Jersey Utilities Association. We represent
19 the (inaudible) in New Jersey, including
20 the electric distribution companies and the
21 natural gas distribution companies. We
22 submitted written testimony but I am just
23 going to provide some verbal highlights of
24 that testimony today.

25 On the resiliency (inaudible) a lot

Public Hearing

47

1 has happened since 2011, whether you are
2 aware of that or if I need to repeat the
3 various forms that we (inaudible) in this
4 state. In recent years our companies have
5 sought approval for billions of dollars in
6 investments to strengthen the energy

7 distribution systems in case of severe
8 weather and to make them more resilient.
9 In fact, I appreciate your comments in the
10 nominating committee this morning where you
11 talked about some of the benefits of those
12 investments. It's estimated naturally that
13 the average cost of power interruptions is
14 between 18 and 33 billion dollars a year
15 and that's an average year. As you know,
16 we've seen some years that have been out of
17 the norm recently. So NJUA is critical
18 that the board look at the cost of not
19 making critical infrastructure investments
20 on ruling on whether utility infrastructure
21 petition should be approved. And we think
22 the EMP should reflect any (inaudible) when
23 determining the value of investments versus
24 their costs.

25 In addition we feel the EMP should

Public Hearing

48

1 encourage the board to consider these
2 (inaudible) alternative cost recovering
3 mechanisms for critical infrastructure
4 investments by utilities. What do I mean
5 by this? Things like (inaudible) systems

6 that are potentially forward looking and
7 not just tied to a past test year
8 (inaudible). We have taken some steps
9 along these lines in New Jersey that are
10 very positive, for in example (inaudible)
11 for water, the accelerated infrastructure
12 program that was initiated last decade in
13 all times of the economy, and there is a
14 lot of examples from other states, and
15 we've included sites in our written
16 testimony so that you can take a look at
17 some of what is going on in some of those
18 other states. A very recent example that
19 we're still looking at, so recent that's
20 it's not in (inaudible) in our comments
21 Minnesota just adopted a law in June that
22 would establish a multi-year rate making
23 process, with components (inaudible) for
24 utilities. We're taking a look at how
25 that's going to be implemented and we

Public Hearing

49

1 encourage you to do the same. (Inaudible),
2 create jobs and enhance resiliency. We
3 appreciate the focus be placed in the last
4 memo on the hearing today, on protecting

5 critical infrastructure and I just want to
6 mention two things.

7 First to thank you, President Mroz and
8 past president Solomon for initiating the
9 discussion that we had on cyber security
10 with (inaudible) and with various agencies
11 that have purview in that area. There has
12 been a great collaboration that's ongoing.
13 And also, if you're not aware, we're
14 actively engaged in updating the security
15 best practices for the industry, that is
16 physical and cyber, and that's a
17 partnership with the Department of Homeland
18 Security and BPU for liability stats.
19 Again, an ongoing positive collaboration.

20 One issue I wanted to be put on the
21 record is as being concerned that we
22 believe we need to talk about is what is
23 more commonly being called the net meter
24 and cost shift. I predicate this by saying
25 you know a number of our companies are

Public Hearing

50

1 leaders in renewable energy deployment and
2 supporters of the sufficient limitation of
3 renewable energy. I think PSE&G just

4 announced that they deployed the one
5 hundred thousand solar panels throughout
6 the state, so that is a given, I think, at
7 this point.

8 In the 2011 Energy Master Plan
9 references the problem of the cost shift,
10 although not by name. Recently there was
11 an MIT study that came out that we site in
12 our hard comments, and we strongly
13 encourage you to look at and those comments
14 say that the cost shift issue is a real
15 issue that needs to be addressed.

16 (Inaudible)in their comments they say
17 that network cost (inaudible) solar
18 penetration on the contrary (inaudible) to
19 each kilowatt hour as a result, has to
20 increase. The consumer with solar systems
21 are responsible for both the reduction in
22 solar hour sales and the increase in
23 network costs, avoid a state portion of the
24 cost. On the other hand, customers without
25 those systems absorb the impact of higher

Public Hearing

51

1 (inaudible) and they say quote (inaudible)
2 so on this front we would just like to see

3 the Energy Master Plan more explicitly
4 recognize this problem and encourage the
5 board to work with State boards and try to
6 get ahead. That will help avoid conflicts,
7 I think down the road and help to ensure
8 smoother and equitable deployment of
9 renewable energy.

10 Let me summarize by saying it's been
11 more of a focus (inaudible), we would like
12 to see the Energy Master Plan emphasize the
13 need to have the utilities at the table,
14 the development of those micro grids, to
15 help address safety issues, regulatory
16 policies (inaudible) with the standby
17 targets. As you know, many micro grids
18 combined (inaudible) at their core, so I
19 can transition to our support for the
20 expansion and re-enforcement of energy
21 transition systems in the state, whether
22 they be high power lines or natural gas
23 pipelines, we feel they help to lower rates
24 and enhance reliability. The 2011 Energy
25 Master Plan states that additional pipe

1 lines would help strengthen New Jersey's

2 existing infrastructure and we agree and we
3 would like to see the EMP provide some more
4 explicit support in that area for
5 (inaudible) pipelines. And finally, just a
6 couple words on energy efficiency. Again,
7 a number of our companies offer a full
8 portfolio efficiency programs, many also
9 support promotion of the clean energy
10 programs statewide and all the (inaudible)
11 and have been involved with state holder
12 groups at the board to help advance the
13 program and improve it.

14 We feel that it's important though for
15 the EMP to recognize that there is still an
16 inherent financial disincentive for
17 utilities to promote conservation and
18 energy efficiency and this of course is
19 through the interactions of need more
20 sales, and the traditional rate structure
21 involving (inaudible) recovery methods we
22 have. As you consider the EMP, we would
23 like to see this disincentive recognized
24 and the need to drive implementation for
25 appropriate rate design and or financial

1 incentive for utility participation and
2 alliance with the goals of the EMP.

3 We feel this is important because the
4 utilities, frankly, can bring a lot to the
5 table when it comes to developing and
6 implementing energy efficiency.

7 That's all I have. Thank you,
8 Mr. President.

9 MR. Mroz: Thank you, Mr. Hendry,
10 thank you for your comments. Next speaker
11 is -- Jeff Pittel.

12 MR. PITTEL: I am here representing
13 our 20,000 members and 60,000 supporters in
14 New Jersey, but also (inaudible) because
15 what happens here in New Jersey has bigger
16 affects, not just in our state, but
17 nationally.

18 I am here to talk a little bit more
19 about planning because I think that this is
20 -- I'm talking about the Energy Master Plan
21 -- there are some things in it from the
22 last plan that we have some concern about
23 but there are also some things in there
24 that we support. And one of our concerns
25 was that a plan without implementation is

1 so even though the old Energy Master Plan
2 standards, they're still not in place. You
3 know, fifteen years after (inaudible), we
4 still don't have the ERS, or EPS, you know,
5 promoting (inaudible) wind and we still
6 don't have the wind mills in place and it
7 may be awhile. We talked about the use of
8 our clean energy fund, and half of that
9 money gets exported every year for other
10 purposes. And so that's where I wanted to
11 start out.

12 The other part that I really want to
13 talk about is that the major shifts in the
14 2008 to 2011 plan was a lot of hot air,
15 where we cut back our goals for
16 efficiencies renewables and replaced them
17 with natural gas and given New Jersey's
18 climate crisis and (inaudible), oh we need
19 to start shifting it back. But as we shift
20 it back, you know, New Jersey right now in
21 many parts of the State are under siege
22 with pipeline after pipeline, (inaudible),
23 power plants and we need to really start
24 thinking about plans for infrastructure
25 when it comes to energy.

1 Right now in different parts of New
2 Jersey either on the boards or have been
3 approved, there are eleven different
4 natural gas pipe lines, at least two oil
5 pipe lines, so instead of being in a
6 crossroad of the revolution, New Jersey is
7 headed to the crossroads to the pipeline.
8 We also see power plants being built in
9 places that maybe we shouldn't be building,
10 like in the middle of Newark or couldn't be
11 built because we don't have the criteria to
12 fight them anymore, (inaudible) we had many
13 years ago or in a flood plain, which is the
14 (inaudible) rebuild issue and many others.
15 We don't even plan to know if we need
16 anymore power plants or one of the concepts
17 that president Solomon has sought when they
18 were promoting (inaudible) and it would
19 also get rid of some of the dirtier plants
20 in the state, and that hasn't really
21 happened. We still have the (inaudible).
22 By having the gas plants come in. That
23 hasn't happened. We still have the Jersey
24 City plant and we still have the Hudson
25 plant. Do we really need to do a better

1 job of planning. Do we really need to have
2 all these pipe lines. Of New Jersey are
3 here to be supported (inaudible). We, you
4 know, sort of agree that we don't have
5 to -- we try to limit putting solar on farm
6 fields, but you can put a power line
7 through that same farm field, put a power
8 plant on it, put a pipe line through it so
9 we want to protect farms from solar, which
10 are the most (inaudible), but we're not
11 there to try to protect and preserve farms
12 from (inaudible) something is wrong with
13 that dynamic.

14 We talk about wind (inaudible) but
15 power lines have been killing the birds.
16 By the way, windmills are down by twenty --
17 climate change is the biggest killer and
18 that's why we have (inaudible). So again
19 where is the planning? We're promoting
20 developments in the wrong places and we're
21 not promoting them in the right places, and
22 that's something that the Energy Master
23 Plan needs (inaudible) we should have
24 criteria and we should have -- not first

1 service pipe lines or anybody can build a
2 power plant, but we really should have a
3 rationale reason for it and a needs
4 assessment for it and making sure we site
5 things in the right places. We try to do a
6 little bit with the power plant, we're
7 trying to move some of them (inaudible) but
8 is there is no criteria.

9 The other area that I wanted to talk
10 about briefly is the need to change, you
11 know, the dynamic on how we fund utilities.
12 We give people incentives for using more
13 power, but we do not give people incentives
14 for saving power. We do not allow
15 (inaudible)recoveries to utilities who
16 actually put in programs to reduce energy
17 use, so they, therefore, don't have the
18 kinds of incentives they need, and the
19 consumer will make out in the long run.

20 We also have use, as an example, met
21 with one of the utility heads about we need
22 pipes and I said well, think about the
23 extra gas you'll get to sell if you fix

24 those pipes and the response was, well,
25 that will passed along to the consumers.

Public Hearing

58

1 Well, we should not be a pass along. We
2 should be monetized and given an incentive
3 to stop the waste and so I think that's
4 part of some of the things we need to
5 grapple with, with this plan coming
6 forward.

7 And finally, I just want to end that
8 we have to move the state forward when it
9 comes to financial crisis. New Jersey,
10 more than of the states that have been
11 impacted by climate. We have a state that
12 is one of the most vulnerable because
13 (inaudible) infrastructure and power
14 plants, (inaudible) we can make plants more
15 resilient, but we don't deal with climate
16 change and (inaudible). We need to move
17 the state forward because we cannot build
18 dykes high enough, we cannot built seawalls
19 high enough and we build homes high enough
20 to deal with the climate rise and the sea
21 level rise. We need to at least put a 80
22 percent renewable by 2050. We should go

23 back to the goals of thirty percent
24 renewable by 20/20. We need to do at least
25 30 percent energy efficiency by 2030.

Public Hearing

59

1 Those are not out of the reach goals.
2 Those are things that can be easily done.
3 We have the technology. We have the
4 companies that are willing to invest. We
5 need to make sure that we have the critical
6 will and that's what the Energy Master Plan
7 should be moving New Jersey forward into
8 the 21st century and embracing clean energy
9 and not the possible (inaudible) of the
10 past and by the way, I just want to respond
11 to something by good friend (inaudible)
12 said, under the (inaudible), energy plan,
13 actually helps New Jersey quite a bit
14 because it reduces more pollution from
15 those out of state sources and it directly
16 affects New Jersey businesses.

17 Under the Clinton power plan, New
18 Jersey reduces about twenty-three percent
19 in greenhouse gasses and states like
20 Pennsylvania are well over thirty percent
21 (inaudible) and so we need to embrace the

22 future. We need to support the present
23 clean power plan. We need to retire all,
24 we need to create more clean energy jobs.
25 This state needs the work. We need

Public Hearing

60

1 (inaudible) five hundred. We have
2 companies waiting to invest on (inaudible)
3 and so we need to put plans back into the
4 Energy Master Plan, thank you.

5 MR. Mroz: Thank you, Mr. Tittle.
6 The next several speakers are William
7 Brandes from RDC. Joan McGee and Klaus
8 Rittrtenbach from Client Action, New Jersey.
9 So, William Brandes.

10 MR. BRANDES: Good afternoon. I
11 appreciate the opportunity to talk to you
12 today. I recently retired from the
13 Environmental Protection Agency where I
14 spent 30 years working in the Office of
15 Solid Waste, now called the Office of
16 Resource Conservation and Recovery. And I
17 was the first chief of energy recovery
18 branch in that office. I don't represent
19 the agency here, but my comments are going
20 to be similar to the many times when I did

21 work for the agency. I'm currently a
22 consultant to the energy-from-waste
23 industry. My last part of my career was
24 focused on how to change from a national
25 strategy on waste to figuring out how to

Public Hearing

61

1 make these commodities more sustainable.
2 We also focused on ways to support
3 increasingly critical carbon reduction
4 efforts to reduce the efforts of greenhouse
5 gases. From particularly from waste
6 management but also from energy generation.
7 And my key point to you here today and I
8 will provide you with the written comments
9 as well, is that I urge the board to
10 include the energy -- in the Energy Master
11 Plan actions that promote the use of
12 municipal solid waste as a renewable energy
13 source. They work in the draft 2011 plan.
14 Such actions support an integrated solid
15 waste system, and must play a more
16 prominent role in achieving New Jersey's
17 goals in increasing renewable energies and
18 reducing greenhouse gases.
19 So why do I say that? Well, New

20 Jersey generates and sends to landfills,
21 4.4 million in tons of waste. There are
22 only two principle improvement options for
23 our communities to dispose of this material
24 after recycling as much as they can, and
25 that is either land filling or energy

Public Hearing

62

1 recovery. Today 75 percent of New Jersey's
2 waste is sent to landfills because the
3 current policies have continued to
4 disadvantage energy-from-waste by rewarding
5 landfills which is an inferior technology.
6 The energy-from-waste is a proven
7 technology that converts municipal solid
8 waste into renewable base loaded energy.
9 There are currently 84 such facilities and
10 five of them are in New Jersey.

11 Energy-from-waste is widely recognized
12 internationally, not only (inaudible), as a
13 source of greenhouse gas mitigation. When
14 I was at the EPA, we modeled, using
15 department of energy models and our own
16 models, to estimate that energy-from-waste
17 reducing greenhouse gas emissions by
18 approximately one ton of carbon dioxide

19 equivalents for every ton of waste
20 processed, based on national averages.
21 These reductions result from prevention of
22 uncollected fugitive emissions of landfill
23 methane, combustion associated with grid
24 electrical production and fossil fuel and
25 the recovery of ferrous and none ferrous

Public Hearing

63

1 metals, that reduces the greenhouse gas
2 emissions as well. We shouldn't have any
3 policies anywhere, including an energy plan
4 or a strategies that prolong land filling.
5 What we need is realistic energy and carbon
6 reduction strategies that reverse land
7 filling, and I believe that
8 energy-from-waste can and should be an
9 integral part of state energy plans right
10 now. State carbon reduction goals would
11 benefit a small but reliable base load
12 power source to be secure and local
13 wasteful land filling would be an avoided.
14 Now, let me make a final point to
15 conclude the things that have recently
16 happened that (inaudible) EPA has just
17 inexorably linked energy production and

18 carbon reduction goals with the rent
19 release of it's knew clean power plant
20 rule. The rule includes energy-from-waste
21 as a mitigation tool that states can take
22 advance tag of to meet the knew strict
23 carbon reduction re requirements. I
24 believe that that linkage that just created
25 so powerful will withstand any legal

Public Hearing

64

1 challenge even if specific aspects of that
2 rule do not. Energy production needs
3 linked to accompanying carbon emission I'm
4 packets are our new legal reality,
5 therefore, state energy plans from now on
6 are by definition, carbon reduction plans.
7 So any, with the emphasis on the word, any,
8 energy source in such plans that can
9 contribute to carbon reduction, must be
10 supported and integrated into this plan.
11 And I believe that energy-from-waste is one
12 such power source. Energy-from-waste can
13 help New Jersey produce renewable energy
14 24 hours a day, seven days a week near the
15 source of energy consumption, while
16 creating knew, high paying jobs, and

17 reducing greenhouse gas emissions and land
18 consumption. So for these reasons, I urge
19 the board to include in the New Jersey
20 Energy Master Plan specific policies and
21 actions that promote energy-from-waste.
22 Thank you.

23 MR. Mroz: Thank you for your
24 comment. Next speaker is Joan McGee. Miss
25 McGee, no affiliation or (inaudible).

Public Hearing

65

1 MS. MCGEE: Good afternoon, my name
2 is Joan McGee, M-C-G-E-E. I am a resident
3 of East Amwell Township, which is a very
4 rural community and also Ship Bottom
5 borough which is (inaudible). Listening to
6 the speakers here today, I have a
7 preliminary comment, which is that the
8 terms of resiliency and infrastructure seem
9 to be buzz words that mean many different
10 things to different people and I think it
11 would be helpful to the energy plan if they
12 came across with some kind of definition so
13 that everybody is on the same page or if
14 they have different definitions, they can
15 comment on those.

16 I want to address two different issues
17 in the Energy Management Plan. The first
18 one is Super storm Sandy and the second one
19 is cost reduction to rate payers.

20 As far as super storm Sandy, the
21 problems that have been in the notice and
22 specified by the president today, claim
23 that energy reliability, unreliability as a
24 result of this, comes from the distribution
25 problems, applications for distributed

Public Hearing

66

1 energy resources and long term financing
2 for resiliency. But I feel that the
3 absence of electric and gas utilities
4 during the storm was a direct result of the
5 flooding of mechanical and electrical
6 systems and the wind that knocked down
7 utility poles, electric lines and trees
8 that fell just about everywhere. This
9 infrastructure problem, which is specified,
10 had practically nothing to do with the
11 supply of electric and natural gas in, my
12 personal experience.

13 I assume that as soon as the
14 mechanical systems were repaired, the

15 electric and gas went on, the propane
16 trucks could get through, there was no
17 issue about comments or problems or
18 discussions from the utility companies
19 about any shortages or any problem with
20 distribution.

21 People in rural areas did not have
22 energy because trees were down blocking
23 roads, which is something, that BPU really
24 has jurisdiction over -- trees that fall
25 down or cutting trees before they come

Public Hearing

67

1 down, and customers at the shore and
2 (inaudible) because their local systems
3 were flooded and that seems pretty basic.

4 Super storm Sandy cannot be used as an
5 excuse to increase the supply of natural
6 gas or electricity, and therefore there is
7 little reason to increase additional pipe
8 lines in New Jersey. All my issues are
9 related (inaudible) on the pipeline as a
10 result of super storm Sandy, too. There
11 has been no shortage of energy in New
12 Jersey.

13 The solution for flooding is to build

14 mechanical systems higher. The solution
15 for being prepared for wind is to put
16 utility poles underground or to make them
17 so incredibly strong that they'll withstand
18 wind. But putting utility lines
19 underground is the best solution to avoid
20 destruction and service. And solar energy
21 is also one of the practical solutions.
22 Solar energy is expanded, then people in
23 their individual homes will be able to
24 access energy readily.

25 The second issue is the energy plan

Public Hearing

68

1 (inaudible) to reduce the cost of energy to
2 New Jersey residents and businesses. The
3 alleged reduction in cost based on natural
4 gas importation is a (inaudible) argument.
5 On page fifty-six of the energy plan it
6 acknowledges the following facts that there
7 are 2.9 million gas customers in New
8 Jersey, ninety percent of whom are
9 residential customers. The U.S. census
10 states that fewer than four million
11 residents in New Jersey exist and that the
12 number of households that are projected by

13 the census are going to slow and are really
14 not anticipated to be much beyond fifty
15 thousand for the next several years and
16 certainly within the next twenty years, not
17 more than a couple hundred thousand.

18 In spite of this, numerous high
19 pressure gas pipe lines are proposed
20 throughout New Jersey as well as many
21 increased transmission facilities for high
22 pressure gas. This will not benefit New
23 Jersey customers and will be past proof to
24 benefit surrounding states who are also
25 ramping up their high pressure gas pipe

Public Hearing

69

1 lines to harbors, to shipping locations and
2 to other markets throughout the area.

3 In the first filing within the last
4 year and a half, the proposed penny
5 pipeline states that it will provide enough
6 energy going through New Jersey to reach
7 4.7 million homes. That is 800,000 more
8 than currently exists and that's way beyond
9 the maximum that the census anticipates
10 being built in New Jersey. So obviously,
11 ninety-eight percent of these homes that

12 are being supplied by penny will not be in
13 New Jersey; however, New Jersey residents
14 will have to bear the cost of this one
15 billion plus dollar pipeline, because
16 (inaudible) also passes through the
17 infrastructure (inaudible).

18 The other pipes lines are similar.
19 They'll in increase the cost to rate payers
20 and I understand the jurisdictional issue
21 between FERC and the BPU but it's time for
22 the BPU, if its goal is to lower costs, to
23 take (inaudible) process, they are an
24 interested party just like the rest of us,
25 even though I represent only myself.

Public Hearing

70

1 Looking at the unit cost currently of
2 natural gas and the myriad of statements
3 that (inaudible) is cost-effective are
4 lower, this will not be the case once these
5 pipe lines and other infrastructure are
6 built. They'll be built were into the rate
7 system and we will without a doubt all be
8 paying higher rates, and it will be
9 residents, because most of the gas is used
10 by residents. (Inaudible)

11 In addition on pages fifty-six through
12 fifty-eight of the current energy plan, it
13 must be rewritten to reflect the current
14 developments that are anticipated in the
15 energy industry. It states, and I am
16 paraphrasing, that we get most of our
17 energy from the gulf coast and it talks
18 about, you know, coming (inaudible) whether
19 it comes from Canada however that's not
20 what is currently occurring at FERC. The
21 FERC application (inaudible) shows that
22 many, many of the major energy companies
23 are requesting bi-directional pipe lines,
24 they are abandoning pipe lines in certain
25 areas going to different directions and

Public Hearing

71

1 they're using Marcella Shale on what new
2 pipe lines originated in the Pennsylvania,
3 Ohio region and traveling through the rest
4 of the country all over the place, so that
5 having them come from the gulf coast does
6 not change the accurate going forward and
7 the energy plan should reflect that.

8 I realize again that BPU has no
9 jurisdiction over FERC, but I would commend

10 you and hope desperately that you will take
11 the entire picture of energy costs into
12 account because FERC allows you to do this,
13 your best intentions and your best efforts
14 will not keep costs down in the state.
15 Thank you very much.

16 MR. Mroz: Thank you for your time.
17 Next is Klaus Rittenbach from Client
18 Action, New Jersey.

19 MR. RITTENBACH: Yes, K-l-a-u-s
20 R-i-t-t-e-n-b-a-c-h, I am a member of
21 Climate Action, New Jersey which has about
22 five hundred members and I'm also a member
23 of another group (inaudible) which has
24 about 11 thousand members worldwide.

25 First of all, I agree with the

Public Hearing

72

1 recommendation of Jeff Pittel of the Sierra
2 Club and from Monday's hearing, the
3 recommendations of Doug O'Malley of
4 Environment, New Jersey. I want to focus
5 my comments on your number one over-arching
6 goal and that is to drive down the cost of
7 energy to all consumers. I also want to
8 focus on the number three goal, which is to

9 reward energy efficiency and energy
10 conservation and reduce peak demands.
11 Well, there is a way to accomplish
12 both of these goals, more cost effectively
13 than many of the other proposals that I
14 have heard today and Monday, and that's by
15 building and retrofitting our houses and
16 our commercial buildings to a standard
17 called the German Passive house standard.
18 This is an incredibly energy efficient
19 standard saving eighty to ninety percent of
20 the energy needed in conventional
21 buildings. That is much better than the
22 proposed internationally construction
23 standards, it's significantly better than
24 even lead platinum. That meets goal number
25 three by saving so much energy and at the

Public Hearing

73

1 same time by implementing these standards
2 we can drive down the customers utility
3 bills likewise by eighty to ninety percent,
4 so that meets your goal, number one.

5 The German Passive health standard is
6 the fastest growing energy performance
7 standard in the world. Over thirty

8 thousand buildings, both regular homes and
9 commercial buildings have been built to
10 this standard all over the world. It's
11 becoming popular in New York City, the
12 State of Oregon and other places throughout
13 the world. It was developed in Germany and
14 Sweden in the 1990s. It's so energy
15 efficient that many passive houses only
16 have small electric space heaters as their
17 only source of heat. They have no central
18 heating unit. Even in the winter, often no
19 heat is required at all, just human body
20 heat and the sunlight coming in the
21 windows. That's sufficient to keep the
22 house comfortable.

23 The German Passive house standard
24 strength lies in the simplicity of its
25 approach. Basically, you build a house

Public Hearing

74

1 that is super insulated with an active
2 ventilation system that recovers the heat
3 of the exhaust. Now, you might think that
4 a house like this would be very expensive.
5 This is what surprised me the most. The
6 total building costs are actually about the

7 same or only a little bit more than
8 building a conventional house. There is
9 also a similar passive house standard
10 called the Erthit standard, that Erthit,
11 that's almost as efficient and is geared
12 for retrofitting older homes and buildings.

13 A very significant portion of New
14 Jersey's energy usage is for heating and
15 cooling. About fifty percent of our
16 residential energy uses for heating and
17 cooling, so if every building in New Jersey
18 were built to the German Passive health
19 standards or retrofitted to
20 the(inaudible)standards, it would greatly
21 help to meet our energy conservation
22 targets by 2050.

23 Shawn Torbert who was here today, will
24 be talking later, he is an expert on
25 passive houses and he is going to go into

Public Hearing

75

1 more detail. He is also formed a meet-up
2 group to promote passive houses. So the
3 bottom line is, in order to drive down the
4 cost of energy for consumers to meet our
5 energy conservation goals and to reduce

6 peak demands, I have three recommendations.

7 Number one, include the German Passive
8 house standard and the Erthit standard in
9 the EMP as important and highly recommended
10 ways to conserve energy in New Jersey.

11 Number two, reward energy efficiency
12 by including these standards in the New
13 Jersey clean energy program and.

14 Number three, work towards revising
15 the building codes so that there is a
16 stream line process terminating process for
17 houses built to these standards. Thank
18 you.

19 MR. Mroz: Thank you for your
20 comments. We're going -- we've been at
21 this for an hour and a half, so let's take
22 a break now, we will convene at twenty of
23 three by the clock up there, so ten
24 minutes. Thank you.

25 (Which time a short break was had).

Public Hearing

76

1 MR. Mroz: Please take your seats.
2 We will reconvene this hearing. The next
3 several speakers are Holly Reed, Doug
4 O'Malley and Lyle Rawlings. First is Holly

5 Reed, Ms. Reed.

6 MS. REED: Good afternoon, my name is
7 Holly Reed, R-E-E-D, I am Vice President of
8 Gabel Associates. I'm here today to
9 testify on behalf of the independent energy
10 producers of New Jersey, referred to as
11 IEPNJ. First, we appreciate the
12 opportunity to present our views and
13 commend you for your efforts and continued
14 work in this area. IEPNJ is a not for
15 profit trade association and represents New
16 Jersey's generators of electric power.
17 IEPNJ members generates over 80 percent of
18 the electricity produced in the state.
19 Members include companies that sell
20 electricity into the wholesale market for
21 sale to the state's utilities which in turn
22 sell that power to New Jersey homes and
23 businesses. As such, members of IEPNJ are
24 active participants in the region's
25 wholesale power market and have a

Public Hearing

77

1 continuing interest in assuring that there
2 are adequate supplies of electricity to
3 fuel the region's growth in an

4 environmentally and economically sound
5 manner.

6 Since 1992, IEPNJ has been directly
7 involved in shaping the laws and policy
8 that affect New Jersey's power industry and
9 has been an active contributor to the
10 state's energy master planning process over
11 the years. We support New Jersey's
12 direction to create a cleaner more
13 environmentally advanced energy industry
14 throughout the consumption, transportation
15 and production chain. The power generation
16 industry is a vital component of this chain
17 and generators are committed to continuous
18 improvements in the efficiency, reliability
19 and environmental performance of its
20 plants.

21 In this regard, the one factor I wish
22 to emphasize is that the most efficient way
23 to New Jersey to achieve its goals is to
24 rely on competitive markets and let them
25 work. Competition forces market

Public Hearing

78

1 participants to respond to competitive
2 pressure by improving efficiency which in

3 turn reduces costs and improves
4 environmental quality.
5 New Jersey's generation fleet has
6 evolved and improved significantly over the
7 years through this process. We recommend
8 that you continue your good work in
9 fostering the competitive energy
10 marketplace. IEPNJ looks forward to
11 continuing to work with New Jersey to
12 promote policies that encourage the
13 responsible development of generation
14 resource needed to meet New Jersey's demand
15 for power. In addition, we are always
16 available to serve as a resource of
17 information as you think through important
18 issues. Thank you for your time.

19 MR. Mroz: Thank you for your
20 comments. Next is Doug O'Malley from
21 Environment, New Jersey.

22 MR. O'MALLEY: Good afternoon. My
23 name is Doug O'Malley, D-O-U-G,
24 O'M-a-l-l-e-y, Director of Environment, New
25 Jersey, representing more than twenty

1 thousand members across the state, as well

2 as 50,000 supporters. I wanted to thank
3 president Mroz, and commissioner Solomon
4 and Commissioner Berkley and also sincerely
5 congratulate you, Mr. President, for your
6 confirmation this morning (inaudible)as
7 well as commissioner. And I want to start
8 off I am going to work off my comments from
9 Tuesday. However, I do want to repeat the
10 concern, also brought up by (inaudible)
11 concerning the ability for the public to
12 comment on the final process, not just the
13 process but the final EMP that is created
14 out of having these hearings and to allow
15 some sort of public ability to weigh in on
16 those findings.

17 I have been wanting to start off with
18 some recommendations (inaudible) on Tuesday
19 v -- I think it's very critical of the
20 Energy Master Plan over the course of the
21 last four years, (inaudible) finance
22 analysis that we have seen, especially
23 climate analysis that occurred here in New
24 Jersey and specifically the work of
25 professor Van Korkey's and professor

1 (inaudible) in Rutgers, New Jersey,
2 (inaudible) expect to see in New Jersey in
3 the course of the next thirty-five years, a
4 foot and a half above sea level rise is
5 expected, stronger storm surges especially
6 in our back bays and our anticipated
7 (inaudible). I also strongly encourage the
8 inclusion of the (inaudible) national
9 climate assessment released last spring in
10 2014. That climate assessment (inaudible)
11 regard to impact of climate and one of the
12 sites specific in J-1 that from 2007 and
13 2013, there is an average of four federally
14 declared disaster areas in every county in
15 the state, including nine in Atlantic
16 County, and (inaudible) and (inaudible)
17 stream specific of that exacerbated
18 (inaudible) increase by more than seventy
19 percent from 1958 to 2010. That is
20 obviously an incredible percentage and we
21 have seen that play out with the amount of
22 federal disaster declaration we have seen
23 in the state to say nothing about
24 (inaudible).

25 And finally in terms of climate

1 impact, I think it is critical to also note
2 the increase in heat, the extreme heat that
3 we see especially in our cities, and is
4 very important for places like New York. I
5 wanted to note, too, part of the goal of
6 the BPU right now is (inaudible) it's
7 imperative of the BPU to include
8 (inaudible) when we are discussing this, we
9 obviously didn't want to be creating
10 projects that ended up under water in
11 thirty-five years, (inaudible),
12 unfortunately under the DEP rules for
13 coastal zone management that was just
14 finalized last month, sea level rise, it
15 was not included in that analysis, and I
16 really encourage working with the
17 utilities, not to repeat at that same
18 (inaudible). I want to discuss a little
19 bit something on some of the wording that
20 seemingly every testifier, (inaudible)
21 appreciate your comments professor Mroz
22 regarding the need to meet those goals and
23 research those goals as well with reference
24 to the work EPA made on the building code
25 standards, obviously still needs work on

1 (inaudible) encourage BPU to reach out and
2 (inaudible) regarding a fuller analysis of
3 the entire study looking at whether the
4 program, especially low income (inaudible)
5 and in New Jersey as far as some of the
6 properties going forward, that's a true
7 win-win for consumers especially for
8 incentives as well as energy savings. I
9 don't want to reference this importance we
10 heard before of, you know, not only in
11 meeting the energy efficiency goals of
12 2011, but (inaudible) in 2008 and some of
13 the research that was provided in 2008 as
14 well some of the testimony that you heard
15 from (inaudible), clearly a lot of the
16 states are leaping ahead of us in the score
17 cards of having energy efficiency resource
18 standards and we strongly encourage the
19 board to reexamine this issue and the
20 petition (inaudible) by the New Jersey
21 Sierra Club, at least an energy efficiency
22 resource that really can help New Jersey
23 meet some of those goals outlined in 28
24 (inaudible) by a binding but there is
25 obviously a lot more that can be done and I

1 would particularly (inaudible) about the
2 loss of 11.5 billion dollars in benefits
3 for consumers that because of the failure
4 to include those 2008 recommendations.

5 I want to move on to air quality
6 references, and really the importance of
7 BTU (inaudible) reference air quality and
8 specifically, the findings, year after year
9 of American Lung Association, I (inaudible)
10 this specifically for effective population
11 on Tuesday. I did not reference the fact
12 that (inaudible) counties, filled on ground
13 (inaudible) those that are young or old are
14 recommended not to go outside. You know,
15 that is -- you know honestly, you know, the
16 reality that shouldn't exist in this state,
17 we should not be restricting the ability of
18 our public residents to (inaudible) based
19 on whether it's hot or not and obviously
20 the governor himself understands this
21 because when it was hot, he had an asthma
22 attack because it was a hot summer day. I
23 think it's also important to reference some
24 of the testimony we have heard regarding

1 state, specifically gas generation in the
2 state. We have heard a lot of testimony
3 and a lot more earlier today and a lot more
4 earlier regarding the (inaudible) facility.
5 I am not going to go into all the
6 arguments, I will say, however, that by
7 re(inaudible) the facility, the gas
8 facility and running it nearly three
9 hundred sixty-five days a year, it will
10 become the number one (inaudible) in South
11 Jersey. And to say nothing of the fact
12 that (inaudible) the facility for those of
13 us that go to Ocean City on a regular
14 basis, I notice in the (inaudible) plan and
15 we are talking about resiliency to re
16 powering facilities that are in (inaudible)
17 plans right along the shore. (Inaudible).
18 In reference to the newer energy
19 (inaudible) is also in the flood plain and
20 the DEP estimated that (inaudible) has to
21 be decreased, so we are talking about in
22 the state, we have seen and we need to keep
23 the opportunities that are being impacted

24 by the DEP, it's exacerbating the impact

25 for the energy center.

Public Hearing

85

1 Finally, I want to talk about a
2 program I referenced, but really it's about
3 a program that has had multiple success
4 across the northeast region and that of
5 course is the (inaudible). Was conceived
6 of, quote, more than a decade ago. It was
7 (inaudible) by the governor (inaudible) as
8 well as (inaudible) the Massachusetts and
9 through the work of (inaudible) and the
10 program obviously took a long time to get
11 it off the block but it has proven to be a
12 remarkable success for those commissioners
13 that were able to attend the meeting in
14 Newark last month and the national
15 association of regulatory commissioners,
16 you may have heard or may have been
17 (inaudible) research in (inaudible) looked
18 at the programs in 2009 to 2011, to look at
19 its benefits in the first three years and
20 further analysis of the benefits from 2012
21 and 2014. And really (inaudible) document
22 1.3 billion dollars in economic value

23 provided by the (inaudible) for
24 the(inaudible), and an additional fourteen
25 thousand jobs as well as 450 million

Public Hearing

86

1 dollars saved for the consumers and also
2 perhaps (inaudible) produced the
3 (inaudible) fossil fuels, imported fossil
4 fuels from outside of the region with a
5 savings of more than 1.27 billion dollars.
6 That's a lot of money to be left on the
7 table and the (inaudible) the study last
8 September estimating New Jersey will lose
9 close to half a billion dollars and
10 (inaudible) the program currently includes,
11 (inaudible) to the governors who indorse
12 our governor in his presidential run. That
13 being said, you know, the governor and the
14 DEP and perhaps a fit of intentional or
15 unintentional timing, announced that the
16 state was going to be officially pulling
17 out of the regulation (inaudible) the same
18 day the DEP (inaudible) was released. It's
19 unclear whether the governor is going to
20 allocate conversation (inaudible), that
21 being said the board of public utilities

22 should anticipate the potential benefits
23 that (inaudible) program which obviously
24 becomes more likely under a new
25 governorship.

Public Hearing

87

1 I wanted to just conclude by again
2 reiterating the importance of a energy
3 efficiency resource standard as part of
4 this plan and a 30 percent reduction in our
5 energy use by 2030. And one last note that
6 I referenced (inaudible) there is a clear
7 path forward for the board of public
8 utilities (inaudible) on part of the
9 (inaudible). I would strongly encourage
10 for those programs to be update with the
11 new time lines, obviously looking to make
12 (inaudible) a reality in this state. Thank
13 you.

14 MR. Mroz: Thank you for your
15 comment. The next several commenters that
16 were preregistered are Lyle Rawlings, Shawn
17 Torbert and Markian Melnyk. Mr. Rawlings,
18 first.

19 MR. RAWLINGS: Good afternoon and
20 thank you President Mroz. Lyle, L-Y-L-E,

21 Rawlings, R A W L I N G S, And I represent
22 the Mid-lantic solar energy industries
23 association.

24 As I said, thank you president Mroz
25 and commissioner Solomon and (inaudible)

Public Hearing

88

1 for holding this hearing.

2 I am very confident that if not in
3 these EMP hearings and if not over the next
4 year or two, eventually, New Jersey will
5 follow other leading countries and other
6 leading U.S. States in concluding that New
7 Jersey's energy future will be a renewably
8 fuel future. Others here have and will
9 testify about the urgency and necessity of
10 adopting this change in course, so today I
11 will focus on the technical infrastructure
12 issues in adopting a high penetration
13 renewable future.

14 (Inaudible) will submit written
15 comments and along with that will be
16 submitting the brilliant work of
17 (inaudible) Dr. Mark Perez of Columbia
18 University, as well as information on the
19 annual experience of other countries who

20 are already well along this path.

21 In technical infrastructure terms we

22 hear a lot about how renewable energy has a

23 problem in that it is intermittent. And

24 this is very true and it is a real

25 challenge, however, the actual experience

Public Hearing

89

1 of these countries, as well as the research

2 of the doctors and others, have provided

3 answers to this intermittency barrier and I

4 want to talk about that a little bit.

5 There are several measures that can be

6 taken to overcome this challenge. The

7 first is the right generation mix and I

8 mean the right generation mix of

9 renewables. Solar, combined with wind

10 combined with biomass goes a long way

11 towards overcoming this intermittency.

12 Solar provides for the people in the middle

13 of the day, wind does more in the morning

14 and afternoon and at night and there is

15 also a very good match in seasonal terms

16 between solar and wind and biomass, of

17 course, in the steady -- throughout most of

18 the year.

19 Just doing that, mixing the renewable
20 sources properly can go a long way towards
21 overcoming the intermittency, but it won't
22 solve it all. Another extremely important
23 element is the geographic mix. If we build
24 high voltage DC transmission lines that
25 cover different geographic areas, it has

Public Hearing

90

1 been shown both in places like Germany and
2 (inaudible) New York and New Jersey, that
3 geographic diversity that will cause the
4 intermittencies to cancel each other out.
5 Going through this source answering that
6 question. Another element that is needed,
7 a third element, is demand management and
8 load shaping. In the renewable energy
9 future, it's going to turn on its head, the
10 current reality where prices spike very
11 high in the middle of the day, already in
12 Europe it's turning out that in the middle
13 of the day the price is cratering and even
14 going below zero, that's because so much
15 solar energy is being generated in the
16 middle of the day. So in the future, we're
17 going to incent people to use more power

18 when power abundant and less when it is not
19 and that requires a great deal of
20 coordination.

21 A fourth element that everyone talks
22 about is the need for electric energy
23 storage. We are going to need a lot of
24 that, both in a large scale and
25 distributed.

Public Hearing

91

1 A fifth element that is coming to the
2 floor recently is curtailment. We're going
3 to have times in the future, when we are
4 generating so much solar or so much wind,
5 that we're going to have to turn it off or
6 turn it down. So the ability to curtail
7 solar is going to be important. It's
8 already being done very widely in
9 California.

10 And then sixth, we need much more
11 complex capability to control the grid and
12 to manage the complex transactions in what
13 (inaudible) called the two way grid of the
14 future. It's going to be a two way
15 (inaudible) and also much more complex
16 transactions taking place among dozens of

17 generators but tens of thousands of
18 generators. That will be a challenge, too.
19 When all of these measurements are
20 combined in the right quantities, and
21 intelligently, the high penetration
22 renewable energy future will be less costly
23 overall once all props are properly
24 accounted for and included. Less costly
25 and an economic benefit more than a fossil

Public Hearing

92

1 fuel (inaudible). But when we look at
2 these six measures that it takes to make
3 that happen, a curious thing arises. You
4 notice that these particular measures like
5 a generation mix of solar and wind, you
6 still get companies, they are going to have
7 a natural role in it, not all of it,
8 private industry may take the bulk of it,
9 but utilities have a nature role to build
10 part of that.

11 You look at the geographic mixing and
12 the need for this long distance
13 high-voltage new technology transmission,
14 that is a natural role for the utility
15 company and a great investment, the PJM

16 study, says 8.6 billion by 2026 to get to
17 the thirty percent renewables. We look at
18 role shaping and demand management. That's
19 a natural utility role that uniquely able
20 to deliver that sort of demand management
21 on a state-wide basis. You look at
22 electric energy storage. Much of that can
23 be done by private industry, but the large
24 scale energy storage, again, perhaps a
25 natural role for utility companies,

Public Hearing

93

1 curtailment of renewables, the ability to
2 reach across the grid and to find out what
3 we want to turn down solar and turn down
4 wind, that's a natural utility role. In
5 fact, a necessary utility role. And you
6 look at the more complex grid control and
7 the more complex transactions that are
8 taking place, again a natural utility role.
9 So (inaudible) in the future that it
10 doesn't work for renewable energy future to
11 have utilities that are weaker and not as
12 financially capable. These are investments
13 that will require healthy and robust
14 utility companies and we believe that

15 public policy and the direction we take
16 must go in that direction, as Europe is
17 finding out now. Their utilities have
18 gotten far far weaker and lost, as I said
19 on Tuesday, half a trillion dollars in
20 value and they're now realizing that they
21 need this infrastructure and don't have a
22 utility community well enabled to provide
23 it.
24 But overall we do all these things, we
25 know that this renewable future is possible

Public Hearing

94

1 and (inaudible).
2 I conclude, and there is one last
3 element of this smart generation mix that I
4 am talking about, a seventh element you can
5 say, and that's if we're going to head
6 toward a largely renewably fueled future,
7 we're going to have to be very careful in
8 the near term, right now, in how much
9 fossil fuel infrastructure we build,
10 because it maybe as it is now in Europe,
11 unneeded useless in the renewable energy
12 future, so we don't want to make too many
13 (inaudible) investments right now and

14 furthermore, what type of Fossil generation
15 are we going to build. There is new
16 technology that is both more efficient and
17 more enabling and more compatible with
18 renewable energy for the future. That's an
19 available in an extremely modest cost. If
20 we build (inaudible) that would be
21 incompatible with the renewable energy
22 future, that would be extremely foolish.
23 That concludes my remarks. Thank you
24 again.
25 MR. Mroz: Thank you for your time.

Public Hearing

95

1 The next person is Shawn Torbert from LEED
2 AP.
3 MR. TORBERT: Thank you all for the
4 opportunity to speak today. I would also
5 like to thank (inaudible) for introducing
6 the Passive House Standard earlier. He did
7 a great job for the background on the
8 standard.
9 As I said, my name is Shawn Torbert,
10 LEED AP, as well as Certified Passive House
11 Designer, and member of the Construction
12 (Inaudible) Institute. I am also on the

13 Board of the New York Passive House, which
14 is a non-profit that has been taxed with
15 (inaudible) Passive House Standard
16 throughout New York City and the region and
17 work with New York City Council,
18 (inaudible) 80 percent reduction by 2050
19 goals. And their (inaudible) City Plan.

20 So forty percent of our energy
21 nationally, goes to built environment. Of
22 that, approximately ninety percent is used
23 to cool our building. In dense urban areas
24 such as New York City or cities in New
25 Jersey, that energy usage can be up to

Public Hearing

96

1 seventy-five percent of our total energies
2 and emissions.

3 So the passive house standard has a
4 clear performance based goals that can
5 reduce building energies usage by
6 seventy-five to ninety percent.

7 Due to the super-insulated air tight
8 building envelope combined with high
9 performance windows, even without power,
10 passive house buildings can maintain a safe
11 interior ambient temperature for weeks to

12 sometimes months. This is essential for
13 public safety and of course post Super
14 Storm Sandy.

15 This is not a future technology. It's
16 a past and present design standard that is
17 proving to work and continues to work for
18 the life of the building.

19 So some examples of the passive house
20 standard working, in Brussels, 2001
21 Brussels was the worst performing energy
22 wise and the most clean of any city in
23 Europe. It made ambitious goal to reduce
24 their energy usage and emissions by 2015 by
25 using the passive house standard. They

Public Hearing

97

1 have done that for all buildings both
2 existing and new construction.

3 In New York City, as I mentioned, the
4 Passive House Standards, specifically calls
5 out as the stepping stone to the 80 percent
6 emissions reduction by 2050 by Mayor
7 DeBlasio's "One City:Build to Last," Plan.

8 Additionally here just across the
9 river, in Philadelphia, Pennsylvania, the
10 Pennsylvania housing authority, has called

11 out the passive house standards be used for
12 all Affordable Housing, thereby reducing
13 the tax burden of the citizen of
14 Pennsylvania.

15 In San Francisco, the Passive House
16 Standard has been used to streamline the
17 permitting process, thereby speeding up
18 construction and eliminating a lot of the
19 red tape required in the permitting
20 process.

21 Both here in New Jersey, my own house
22 in Long Branch, New Jersey,
23 (inaudible)Super storm Sandy was completely
24 gutted and rehabbed using the passive house
25 standard and it's now functioning with no

1 central heating or cooling. We were able
2 to remove the gas line and completely run
3 off electric.

4 Additionally, (inaudible) to a
5 technology for this year's department of
6 energy (inaudible) competitor, issuing the
7 passive house standard to design net
8 positive (inaudible) positive home for the
9 Jersey Shore, that will actually be

10 floodable and also generate enough energy
11 to charge the (inaudible) grid.

12 I know the big question is what is
13 this all going to cost and it actually
14 shouldn't cost anything. For every one
15 million, according to a study from Canada
16 done from 2002 to 2012, every one million
17 dollar that is reinvested in energy
18 efficiency measures, creates fifty-seven
19 jobs years. That's one job for 57 years or
20 fifty-seven jobs for one year.

21 Additionally because the energy costs
22 are so significantly reduced, it reduces
23 the tax burden of New Jersey residents that
24 are paying for affordable housing and
25 government buildings.

Public Hearing

99

1 Additionally, it reduces the public
2 health costs associated with poor air
3 quality and also makes renewable energy
4 cost-effective feasible by reducing the
5 amount of renewable energy needed and also
6 to be a stepping stone to net zero energy
7 buildings.

8 Lastly, it incentivize developers and

9 builders by streamlining the construction
10 and permitting process. So, as you know,
11 time is money, especially in construction
12 and we have seen that in New York City
13 where they just broke ground on the first
14 twenty-six story high-rise passive house be
15 (inaudible).

16 In closing, I would like to encourage
17 the State of New Jersey to consider using
18 the Passive house standard or similar as an
19 alternate energy code compliance pathway to
20 create local jobs, increase our resiliency,
21 and improve the public health and safety
22 for all of our citizens.

23 Thank you.

24 MR. Mroz: Thank you. Thank you for
25 your comments.

Public Hearing

100

1 Next is Markian Melnyk from Atlantic
2 Grid Development Company.

3 MR. MELNYK: Good afternoon.

4 M-A-R-K-I-A-N M-E-L-N-Y-K.

5 Thank you very much, Mr. President and
6 Commissioner Solomon. I'm the president of
7 Atlantic Grid Development. We have a

8 project called New Jersey Energy Link.
9 It's a transmission project here in New
10 Jersey. Commend the Commission on its
11 effort to revise the Energy Master Plan,
12 it's a good idea to keep it fresh. A lot
13 of change since the last (inaudible).

14 My comments here are focused on
15 electric transmission and as I review the
16 current plan, (inaudible) it's a little bit
17 like and that's understandable because PJM,
18 the (inaudible), is the entity that is
19 principally responsible for transmission.

20 But transmission has a very large
21 impact on New Jersey. PJM has stated in
22 connection with explaining New Jersey's
23 high electric capacity costs and in the
24 (inaudible) zone, that transmission, that
25 it's historically transmission constrained

Public Hearing

101

1 and the PSEG zone has not attracted a lot
2 of a new generation, that PJM as attracted.

3 In addition, the New Jersey Large
4 Energy Users Coalition, has taken a
5 position that higher energy costs in New
6 Jersey are driven in large part by the

7 related problems of the state's congested
8 electricity grid and the concentrated
9 generation (inaudible). And as PJM has
10 observed, the problems with transmission
11 are typically significantly as they affect
12 the PSEG zone. And that zone is the zoning
13 state that includes most of the state's
14 large cities, the population, industrials
15 and commercial facilities. So it has a
16 large impact on city ratepayers.

17 In recent PJM electric capacity
18 auctions, the PSEG zone price was \$95 per
19 (inaudible) was higher than the rest of
20 PJM, in real terms this translates into
21 about three hundred forty-seven million
22 dollars more that ratepayers in New Jersey
23 pay each year than they would pay if the
24 price was more even across New Jersey. So
25 this problem is of interest to me because

Public Hearing

102

1 our company has a transmission project to
2 help alleviate that problem.

3 The New Jersey Energy (inaudible) and
4 would connect southern New Jersey near
5 Atlantic City with northern New Jersey and

6 it would provide a pathway to move a lot
7 more energy and capacity (inaudible) with
8 more supply concentrated competition
9 (inaudible).

10 And I am not going to dwell on that
11 issue. What we're interested in here is
12 broader concepts to the master plan.

13 I started my remarks by saying that
14 the he EMP was a little light in its
15 treatment of transmission (inaudible) did
16 not have the authority. But since that
17 last EMP, PJM has adopted changes to its
18 (inaudible) that gives the board much more
19 ability, another level to deal with high
20 energy prices in the state. It's
21 particularly relevant because since the
22 last EMP was adopted, before it went
23 through protracted (inaudible) to encourage
24 the construction of additional generation
25 in this state and that was beaten back by

1 the courts. So this new authority that the
2 board has, this new ability to effect
3 transmission that's in the PJM (inaudible),
4 is a new opportunity that needs to be

5 recognized in the plan. It's a new lever
6 for the board to be use.

7 So the process that (inaudible) is
8 known as a stated agreement approach and
9 allows the state, any state, New Jersey in
10 this case, to go directly to PJM and have
11 transmissions built that advances important
12 state policies, things like energy
13 resiliency, addressing high prices, making
14 energy more affordable.

15 So I will conclude by your urging the
16 board to take this new power that's present
17 in the PJM (inaudible) into account in the
18 next Energy Master Plan and to take a more
19 proactive role regarding transmission
20 including (inaudible) projects like the New
21 Jersey energy line. Thank you for this
22 opportunity.

23 MR. Mroz: Thank you for your
24 comments. At this point, on our list, we
25 have come to the end of the preregistered

Public Hearing

104

1 speakers, although I see Mr. Kringle, he --
2 oh, no comments? Okay, thank you.

3 And there is (inaudible) desire to

4 speak. And if not, we will move onto those
5 that did not preregister, those that
6 registered today as they came here and
7 indicated they wanted to speak.

8 The first is Peter Schweinsberg.

9 There is no indication or affiliation
10 or representation. Mr. Schweinsberg?

11 MR. SCHWEINSBERG: Peter,
12 S-C-H-W-E-I-N-S-B-E-R-G and I am
13 representing myself.

14 Scientific findings are more than just
15 opinions. Justified opinions. If
16 (inaudible) serious observations
17 (inaudible) is a fallacy to then conclude
18 the is the case, hence, science is not
19 formal proving, however, through the
20 process of inference and through testing
21 (inaudible) by means of (inaudible).
22 Science is the best process we have of
23 making tons of observations and there is no
24 warranted alternative. Global warming,
25 climate change and (inaudible) resulting

Public Hearing

105

1 from (inaudible) are extremely well
2 supported by scientific findings. In the

3 present time, hardly a year goes by, that
4 hasn't beaten the record for (inaudible) in
5 fact, there has not been a warmer yearly
6 average since the beginning of finding
7 evolution. Winter is eleven days shorter
8 than in 1970. Flowers are blooming earlier
9 and earlier in the year every year.

10 (Inaudible)has been reduced substantially.
11 The length of the fire season out west and
12 in Alaska has grown seventy-eight days
13 since 1970 and hurricanes are now sixty
14 percent longer and have 50 percent great
15 peak winds than preindustrial science.

16 Moreover, global warming and climate
17 change have accelerated at best.

18 Previously, frozen methane and Arctic
19 permafrost is being released in copious
20 amounts. (Inaudible) also warming human
21 kind has ever (inaudible) up to this point.

22 Loss of ice cover is warming the
23 planet by reducing the heat reflected back
24 into space. The warming of ocean water
25 reduces (inaudible) carbon dioxide. Ocean

1 acidity reduces the ability of (inaudible)

2 to produce calcium carbonated shells
3 thereby keeping plankton from holding
4 carbon. Forest fires are reducing forest
5 cover, releasing more carbon dioxide in the
6 process. Hurricanes, too, reduce forest
7 cover. Katrina and Risa in 2005 damaged
8 more trees in Louisiana Mississippi than
9 any recorded forestry disaster in history
10 at that time. Warmer temperatures lead to
11 the increase microbial activity in soils,
12 releasing very large (inaudible) of carbon
13 dioxide. It's amplifying (inaudible) being
14 to show the urgent need to take more
15 action. It's only a matter of time before
16 global warming accelerates beyond our
17 ability to stop it, if it hasn't already
18 done so. Global warming, climate change
19 and (inaudible) are mostly caused by
20 (inaudible) and cannot end without
21 eliminating fossil fuel use.

22 (Inaudible) as mentioned by Jeff
23 (inaudible) at Monday's hearings and
24 (inaudible) to exceed those proposals.
25 Thank you.

1 MR. Mroz: Thank you for your
2 comments. The next is Rita Yelda. Good
3 afternoon, Ms. Yelda. If you could
4 indicate whether you have affiliation or
5 represent someone.

6 MS. YELDA: My name is Rita Yelda
7 Y-E-L-D-A. And I am representing food and
8 water loss. We're an international
9 consumer advocacy organization that works
10 for safe food and clean water. And today
11 representing our supporters and members in
12 the central New Jersey region.

13 So in considering addition to the New
14 Jersey Energy Master Plan, we should be
15 moving the state forward for clean energy,
16 not (inaudible) investment into fossil fuel
17 and its infrastructure.

18 New Jersey's energy future should be
19 built on some water and wind generation and
20 increase energy efficiency across the
21 board.

22 The Energy Master Plan must set and
23 meet ambitious goals for greenhouse gas
24 reductions based on the (inaudible) with
25 short and medium-term benchmarks

1 accountability measures to ensure that they
2 are met.

3 The Energy Master Plan hasn't done
4 enough. The plan promotes doubling down on
5 fossil fuels and doesn't do enough to work
6 toward energy efficiency and clean energy
7 programs.

8 The Energy Master Plan unfortunately
9 and strongly endorses the expansion of a
10 fossil fuel infrastructure across the state
11 by expanding gas pipe lines and fossil fuel
12 power plants in our communities, so as some
13 of the others have stated, there are
14 numerous pipe lines that are either
15 proposed or being built right now that go
16 all across New Jersey, two of which are
17 planned to go through the sensitive
18 pinelands region in parts of South Jersey.

19 We need to consider all the ways that
20 further fossil fuel developments will hurt
21 our communities so that we don't continue
22 to make the same mistakes. We need no more
23 fossil fuel pipe lines, no more oil trains
24 that threaten our water sources, no more
25 offshore and relief facilities, no

1 (inaudible) which has already come into the
2 state and no more fossil fuel power plants
3 in our neighborhoods like the New York
4 energy center. The BPU should not be
5 extending the life of old pollutant fossil
6 fuel power plants or building new ones.
7 Any effort to keep these plants operating
8 should be very short term or there will
9 never be opportunities for the entrance of
10 new technologies. Instead of doubling down
11 on fossil fuel, the BPU must create
12 incentives for energy efficiency and clean
13 energy that meet strict carbon molds.

14 The Energy Master Plan should also
15 prioritize community owned and shared
16 efficiencies and renewable projects so that
17 we can gain collective control over our
18 energy choices, ensure local jobs and keep
19 energy dollars in our own communities.
20 (Inaudible) as well as pathways to clean
21 energy ownership, must be open to all New
22 Jersey residents, not just some, not just
23 homeowners, but everybody, not just the
24 people who can afford it.

25 The transition from efficient

1 renewable energy system should be
2 (inaudible) and just. State sponsored
3 clean energy programs should be designed to
4 delivery job creation, cost savings and
5 health improvements for individuals and
6 communities that are most in need of these
7 (inaudible).

8 Our new energy policies must reverse
9 insecurities of low income communities and
10 address the pollution that
11 disproportionately burdens communities of
12 color.

13 The Energy Master Plan (inaudible) and
14 under minds clean energy and (inaudible) it
15 does not go far enough. This plan will
16 continue to (inaudible) and money our of
17 New Jersey, adding more pollution and
18 hurting our public health. With careful
19 planning and fossil execution, New Jersey's
20 Energy Master Plan could really break new
21 ground and bring New Jersey less carbon
22 emission, cleaner energy, more jobs and
23 healthier communities. Thank you.

24 MR. Mroz: Thank you.

1 list. Please come up.

2 MS. HUTTER: S-I-A-R S-A-X

3 H-U-T-T-E-R.

4 I am speaking for myself, but I am on
5 the board of the local Washington Crossing
6 Audubon society. I mostly want to
7 encourage you to speed up the transition to
8 renewals, to encourage energy efficiency
9 and encourage plus energy use such as light
10 parking lots, street lights, office lights,
11 whatever we can do, particularly at night
12 when they're empty, not needed. I want to
13 also -- what I would really like to
14 emphasize is not relying on natural gas as
15 a heavy crutch, get it through transition
16 to renewal.

17 Future emissions are worse than we
18 realize, much worse, producing carbon
19 dioxide and the infrastructure issues with
20 pipe lines. We're getting hit with a rash
21 of pipe lines and I don't want to see
22 unnecessary build outs. They will be going
23 through our preserved areas, our

24 (inaudible) the areas that make life worth
25 living in New Jersey. If we lose these,

Public Hearing

112

1 the weekends, when you're not working and
2 so forth, it's just not going to be the
3 same and that's my major concern. Thank
4 you.

5 MR. Mroz: Thank you. The next
6 speaker is Ray Albrecht. Come up and give
7 the court reporter your name and also if
8 you represent an entity.

9 MR. ALBRECHT: Thank you very much.
10 My full name is Ray Albrecht, so R-A-Y, my
11 last name is spelled A-L-B-R-E-C-H-T. And
12 I work as a technical representative for
13 the national (inaudible) diesel farms, so
14 we're going to talk bio-diesel for a few
15 minutes here.

16 I provide technical education for
17 state agencies and not-for-profit
18 organizations and a whole host of other
19 folks across the United States. I
20 appreciate the opportunity to come here to
21 talk a bit about some innovative ideas that
22 you should consider within the context of

23 your energy plan process.

24 For those of you who may not be

25 familiar with bio-diesel is, it's a liquid

Public Hearing

113

1 fuel that's a direct replacement for
2 traditional diesel fuel or heating oil and
3 it comes from organic sources, such as
4 vegetable oil, or recycled cooking oil, it
5 can also come from organic waste, for
6 example, where you can go through a
7 (inaudible) process, which is methane and
8 then take residual from that and go through
9 a sort of (inaudible) based,
10 semi-fermentation process to produce
11 (inaudible) and then used to make
12 bio-diesel. So simply put, a renewable
13 liquid fuel. Bio-diesel by way of
14 technical introduction saves about eighty
15 to ninety percent in terms of greenhouse
16 gas emissions (inaudible) fossil fuel, and
17 that includes natural gas especially if you
18 incorporate and take into account methane
19 losses from the pipeline system, okay.

20 And it (inaudible) these carbon

21 reductions at the eighty percent plus level

22 that we really want to achieve by 2050 so
23 it's not a bridge fuel that grows part way,
24 it's the end goal fuel that (inaudible)
25 renewable technologies that we can

Public Hearing

114

1 consider.

2 Bio-diesel produces jobs that can be
3 made locally. We can speak for hours about
4 the economic benefits of that but we will
5 put that aside.

6 I would like to get straight into some
7 policy suggestions and topics that you
8 might evaluate further, we spent a lot of
9 time this afternoon talking about power
10 reduction, both generation here in New
11 Jersey. Bio-diesel is already being used
12 in pockets across the U.S. (inaudible) very
13 heavily in Hawaii, now, in some locations
14 in New England, okay, in place of oil as a
15 fuel.

16 One of the big opportunities for
17 renewable liquid fuel is (inaudible) is in
18 the very best technologies, for example a
19 good portion of combined cycle gas even
20 cycle power generation systems can use

21 liquid fuel, bio-diesel is a natural drop
22 in replacement, so under all of these
23 programs that we have spoken about whether
24 (inaudible) or EPA clean power plant, there
25 is a big door that we can walk through in

Public Hearing

115

1 order to accomplish those goals and that is
2 to start to add in renewable liquid fuels
3 into the fuel mast.

4 In terms of thermal applications, you
5 know, heating a building or industrial
6 processed heat, bio-diesel is already being
7 used as a component in heating oil, whether
8 it's (inaudible) which a very clean
9 product, especially with number six, heavy
10 oil, which there are still pockets of
11 (inaudible) being used across the entire
12 northeast and you add bio-diesel which is a
13 (inaudible) fuel, you can not only address
14 the carbon footprint aspect which is
15 globally important to everybody, but also
16 you directly positively impact local air
17 quality for the reduced particulars in
18 essence.

19 We have spoken about combined heating

20 power, okay, which is producing heat and
21 electricity at the same time. Also the
22 concepts of (inaudible) for the purpose of
23 sustainability and resiliency, bio-diesel,
24 I think has a lot of untapped potential for
25 those applications, especially since it

Public Hearing

116

1 would be stored on-site as opposed to
2 depending on a pipeline that might be
3 vulnerable to disruption the key aspect of
4 CHP okay, that applies to renewable fuels
5 is that when you get high value in both the
6 electric output thermal output is that you
7 can finally get the numbers to work,
8 dollars and cents wise, and achieve the
9 payback that we need with renewable energy,
10 all right, so that is why it's really
11 important for the Energy Master Plan to
12 focus on how you can make CHP work better
13 in New Jersey.

14 The final policy suggestion or subject
15 that EMP should look at, we would like
16 thermal RPF programs. We made several
17 references to electric RPF programs today.
18 Another phase across New England which

19 includes now New Hampshire, Massachusetts,
20 and just recently Vermont, and soon to be
21 Rhode Island, have developed renewable
22 thermal add on components to their electric
23 RPF program since these thermal programs
24 now incorporate the same features that the
25 electric RPF programs, obligated components

Public Hearing

117

1 have been quoted that they need to meet
2 producers of renewable thermal energy
3 (inaudible) renewable energy credits and
4 there is a marketplace based mechanism
5 there for encouraging the use of renewable
6 fuel or renewable heating technologies out
7 there in the world of residential,
8 commercial and industrial facilities and I
9 think it would be really be a smart thing
10 for New Jersey to look at those.

11 We would be happy to help with
12 technical assistance on this as the agency
13 folks want to look at maybe some ideas that
14 haven't been wrestled with and (inaudible),
15 so we will be happy to help. Thank you for
16 the opportunity to talk --

17 MR. Mroz: Thank you for your

18 comments. Let's take a five minute break,
19 we will come back quarter to four.

20 (Which time a short break was had)

21

22 MR. Mroz: Could I have your
23 attention. At this point we have three
24 more speakers registered. They are Elvin
25 Montero and John Tomicki and M. V. Ramano,

Public Hearing

118

1 if I'm getting that last name right. So

2 Mr. Montero from (inaudible).

3 MR. MONTERO: Elvin, E-L-V-I-N,

4 Montero.

5 Good afternoon, president Mroz,
6 commissioner Solomon, thank you for this
7 opportunity. Again, my name is Elvin
8 Montero, and I am the Chemistry Council of
9 New Jersey. We represent more than 60
10 chemistry manufacturers in the State of New
11 Jersey, many of which are large energy
12 users. They are all part of New Jersey's
13 25.3 billion Chemistry Industry -- just
14 last month, we ranked our annual member
15 survey which goes out to our membership and
16 once again for the eighth consecutive year,

17 the listed energy cost is one of the major
18 issues of concern and you can appreciate
19 this because structural (inaudible)
20 national average, but for some energy
21 (inaudible), energy for both fuel and
22 power, the feedstocks account for up to
23 85 percent of total production costs.

24 So the cost of energy impacts the
25 bottom line. We need active affordable

Public Hearing

119

1 reliable and safe energy to help stimulate
2 the economy, investments within our sector
3 and the (inaudible) cost New Jersey for the
4 chemistry industry at a competitive
5 disadvantaged.

6 The average electricity rate for all
7 sectors has dropped about nine percent
8 since 2011 when the last time I was up
9 here, testifying about this current master
10 plan. The residential rates have dropped
11 about two percent but all energy rates
12 still remain above the national average.
13 We congratulate your efforts to date, but
14 we challenge you to (inaudible) goals of
15 the Energy Master Plan, particularly the

16 one To Drive down the cost of energy for
17 all customers. BPU is right in keeping
18 energy costs in mind for all rate payers,
19 while considering any change to the EMP,
20 particularly as they relate to any new
21 resiliency policies. New Jersey should
22 continue to promote a diversified energy
23 portfolio that is sensitive to the
24 electricity rates consumers will ultimately
25 pay and should consider all energy

Public Hearing

120

1 generation solutions, including nuclear and
2 co-generation to help bring down the cost
3 of energy while meeting the state's
4 environmental goals.

5 Even the EPA clear energy plan
6 recognized that industry combined heat and
7 power, or CHP units, should not be subject
8 to others in the final CPP. Given the
9 environmental benefits of CHP and the U S
10 government's efforts to promote growth of
11 industrial distributed generation,
12 continued support for safer, natural gas
13 developments and energy generation will
14 also help provide reliable energy at lower

15 costs while mitigating emissions. In fact,
16 two days after the EPA plan was released
17 the energy information administration
18 issued a press release entitled monthly
19 power sector carbon dioxide emissions reach
20 27 year low in April. Natural gas
21 production is largely the reason emissions
22 are reaching record lows. Increased
23 natural gas use was responsible for more
24 than 62 percent of electric power sector
25 CO2 savings from 2005 to 2013 according to

Public Hearing

121

1 an October report:
2 EMP should continue to support the
3 safe expansion of natural gas pipe line
4 system. Certainly the chemistry counsel is
5 not against alternative energy generation,
6 in fact, our member companies are leading
7 the innovation that is helping to make the
8 product used in solar panels and wind
9 turbines more cost efficient and effective.
10 But we are against the funding models that
11 have been afforded certain alternative
12 energy solution guaranteeing a high rate of
13 return at the expense of rate payers. We

14 encourage the state to continue to
15 implement the EMP's guiding principle to
16 look at cost-effective alternative energy
17 generation options that demonstrate a net
18 benefit to rate payers, while protecting
19 the environment. Any -- we do, however,
20 remain a little concerned about the
21 potential impact on the electricity rate
22 for all rate payers with the renewable
23 energy portfolio standard of 22.5 percent
24 from renewable sources by 2021 will have.
25 We are just six years away from only about

Public Hearing

122

1 four percent of our energy from renewable
2 sources.

3 We certainly encourage the promotion
4 of energy efficiency in New Jersey. It is
5 a practice that our members have engaged in
6 regularly and have benefitted from. The
7 only caution that we add is that as you set
8 the standards that you are mindful that
9 (inaudible), because technology can meet
10 the needs of our efficiency goals, we are
11 limbed to energy efficiency innovation
12 currently available. In terms of energy

13 infrastructure upgrades, particularly as it
14 relates to resiliency, CCNJ supports
15 retaining the current rate making structure
16 for utilities, the traditional rate making
17 structure properly balances utility needs
18 and consumer protection in a manner that is
19 most accountable and transparent. We want
20 to advance real solutions that will improve
21 reliability for all electric consumers, not
22 shortsighted plans that can result in
23 millions of dollars in profits for the
24 utilities and limited benefits to rate
25 payers. We can't afford higher energy rates

Public Hearing

123

1 from multi-billion dollar energy proposals
2 that are not properly scrutinized or deemed
3 necessary effective or financially prudent.

4 In closing, we again congratulate the
5 BPU and the state for its efforts thus far.
6 We encourage you to stay the course with
7 the Energy Master Plan by implementing
8 environmentally conscious energy
9 initiatives that can ultimately reduce
10 electricity rates, revitalize New Jersey's
11 economy, and secure our energy future. And

12 always keep in mind the rate payers, not
13 just the structural rate payers, with
14 electricity rates at 60 percent above the
15 national average, but those who are making
16 the decision between paying for food,
17 medicine or the electric bill. Thank you.

18 MR. Mroz: Thank you for your
19 comments. Next is John Tomicki.

20 (NO RESPONSE)

21 MR. Mroz: The last person that we
22 have registered to speak is M.V. Ramano.
23 Will you just confirm the spelling your
24 name and if you're representing anyone or
25 affiliated with any groups.

Public Hearing

124

1 MS. RAMANO: I am with the New Jersey
2 (inaudible) from (inaudible) and economic
3 safety and production for many years. I
4 would like to focus on three points. The
5 first which I haven't heard addressed today
6 concerns the consideration of
7 (inaudible) construction Energy Master Plan.
8 The EMP notes that (inaudible) problematic
9 and uncertain and high rates of safety
10 associated with nuclear gas or accident and

11 the (inaudible) high construction costs and
12 (inaudible) however, the EMP also states
13 that unless New Jersey pursues additional
14 (inaudible) the current greenhouse
15 production will also be unattainable. This
16 is not (inaudible) first constructing new
17 nuclear gas (inaudible) is going to be in
18 direct contradiction to the (inaudible)
19 which will drive down the cost of energy
20 for all consumers. (Inaudible) is not
21 going to get any cheaper, and practically
22 all (inaudible) demonstrate that nuclear
23 power has not in both (inaudible) and
24 France, the two countries with the most
25 (inaudible) anywhere in the world, cost of

Public Hearing

125

1 nuclear construction has increased
2 (inaudible). (Inaudible) with the reactors
3 under construction industry (inaudible)
4 showed us the future of this power is not
5 (inaudible).

6 Second, there are many studies,
7 including ones that I have conducted
8 myself, that showed that (inaudible) and
9 meets plans without increasing nuclear

10 power capacity. All of these causes will
11 (inaudible) more energy efficiency and
12 (inaudible) sources. The goal of
13 (inaudible) is a good first step but in
14 light of these increased costs, (inaudible)
15 this could be enhanced.

16 Third, to the extent that there is
17 concern about the limited nature of solar
18 and wind power, nuclear powers will be
19 (inaudible). Both (inaudible) nuclear
20 reactors cannot increase or decrease the
21 power (inaudible) and the folks can argue
22 that (inaudible). That can be done only
23 through the deployment of (inaudible)
24 powers open gas lines and (inaudible) power
25 and (inaudible). Limited use of

Public Hearing

126

1 (inaudible) technologies and demand
2 (inaudible).

3 (Inaudible) but (inaudible) cheaper in
4 contrast to nuclear power.

5 These (inaudible) these problems with
6 nuclear power and (inaudible) elsewhere are
7 not going to be solved by new (inaudible).
8 I (inaudible) to more modern reactors and

9 both of them are definitely going to be
10 more expensive than (inaudible).

11 In recent years more and more reactors
12 have been widely (inaudible) but our
13 examination of these different designs show
14 that none of them can solve all of these
15 problems simultaneously and (inaudible) one
16 problem particularly to make others worse.
17 For example, (inaudible) safety, but that
18 same type makes (inaudible) waste
19 deployment.

20 My second point is that the EMP does
21 not adequately (inaudible). To what is
22 critical and power plan (inaudible). Most
23 common (inaudible) and strong purpose. In
24 order to accomplish this they should aim to
25 as much greater levels of resiliency

Public Hearing

127

1 including two (inaudible) using (inaudible)
2 combined heat and power blocks. As
3 experience with this (inaudible) in the
4 aftermath of Sandy (inaudible). And
5 efficient on campus power (inaudible)
6 combined from seeking power plants
7 (inaudible) and a solar panel (inaudible).

8 (Inaudible).

9 Third, in planning, it's important to
10 remember that much of the natural gas
11 infrastructure (inaudible) these will be
12 the main determinants of New Jersey's green
13 house gas emission (inaudible) but also
14 methane in the medium and long term future.

15 It is critical to enhance the lines of
16 natural gas. I thank you for allowing me
17 to offer my comments.

18 MR. Mroz: Thank you for your
19 comments. That concludes the list of
20 individuals who registered who wished to
21 speak. Is there anyone else that is here
22 that has not spoken and wishes to do so?
23 Seeing none, I will conclude this hearing.
24 I thank you all for your participation and
25 we will have one more hearing Monday

Public Hearing

128

1 afternoon of next week at Stockton
2 University at 1:00 p.m. Thank you.
3 (Hearing was adjourned at 4:15 p.m.)

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129

1 C E R T I F I C A T I O N

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