

COMMONWEALTH OF PENNSYLVANIA
HOUSE OF REPRESENTATIVES
CONSUMER AFFAIRS COMMITTEE HEARING

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HARRISBURG, PA

MAIN BUILDING
ROOM 140

MONDAY, MAY 6, 2019
11 A.M.

PRESENTATION ON HOUSE BILL 11

BEFORE :

HONORABLE BRAD ROAE, MAJORITY CHAIRMAN
HONORABLE JOE EMRICK
HONORABLE RYAN MACKENZIE
HONORABLE THOMAS MEHAFFIE
HONORABLE ERIC NELSON
HONORABLE TINA PICKETT
HONORABLE CHRIS QUINN
HONORABLE THOMAS SANKEY
HONORABLE MARTINA WHITE
HONORABLE ROB MATZIE, MINORITY CHAIRMAN
HONORABLE DONNA BULLOCK
HONORABLE AUSTIN DAVIS
HONORABLE ED NEILSON
HONORABLE PETER SCHWEYER

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2 PHIL KIRCHNER, MAJORITY EXECUTIVE DIRECTOR
3 HEATHER RODGERS, MAJORITY LEGISLATIVE
4 ADMINISTRATIVE ASSISTANT II
5 JES BLAIR, MAJORITY ADMINISTRATIVE ASSISTANT
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*Pennsylvania House of Representatives
Commonwealth of Pennsylvania*

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SUBMITTED WRITTEN TESTIMONY

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(See submitted written testimony and handouts online.)

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P R O C E E D I N G S

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MAJORITY CHAIRMAN ROAE: Good morning, everyone. It is now eleven o'clock, so I'm going to call this hearing of the House Consumer Affairs Committee to order.

As you're all aware, today's hearing deals with House Bill 11.

Our first testifier, if he can get up to the testifying area, is going to be Stu Bresler, who's the senior vice president of operations and markets at PJM.

As most of you are aware, we've had a series of hearings on this issue. And I've said it before and I'll say it again, this is probably the most technical, complex issue that I've seen in my time in the legislature, lots of moving parts to this thing. And we really appreciate all the members, their attendance at the hearing. Hopefully more members will be coming in as the hearing progresses.

And thank you to all the testifiers. We've learned a lot about this issue.

And I'm going to see if my Democratic Chair has any opening statements he would like to make.

MINORITY CHAIRMAN MATZIE: Thank you, Mr. Chairman.

I agree and echo your statements. I think

1 it's been a thorough vetting and a lot of good Q and A, so
2 looking forward to the testimony today.

3 Thank you.

4 MAJORITY CHAIRMAN ROAE: All right. Thank
5 you.

6 And, Mr. Bresler, when you're ready, you may
7 begin, sir.

8 MR. BRESLER: Thank you, and good morning.

9 Thank you, Chair -- Representative Roae,
10 Representative Matzie. Thank you very much for the
11 opportunity to appear before you today.

12 Again, my name is Stu Bresler. I do serve as
13 senior vice president of operations and markets at
14 PJM Interconnection.

15 I last appeared before this committee not long
16 ago, just a couple of months ago, in March. My testimony was
17 based on providing information and education about PJM, our
18 role as a system and market operator, and the value we bring
19 to ratepayers in the Commonwealth. I spoke about our ongoing
20 successful mission to ensure both electric system reliability
21 and the lowest reasonable cost for Pennsylvania and all of
22 the states in the region that we serve. I also spoke about
23 how the energy industry is evolving with changes to fuel mix,
24 technology, and the way consumers use electricity. I spoke
25 about PJM's efforts to evolve along with the industry and how

1 we are looking to leverage the discipline and efficiency of
2 our markets to find solutions that will continue to ensure
3 reliability at lowest costs while embracing many of the
4 drivers behind the evolution.

5 I'm pleased to report that in the short time
6 since I appeared before you, we believe that we are prepared
7 for whatever Mother Nature throws at us this summer. The
8 system continues to be reliable and will be reliable into the
9 foreseeable future, and our initiatives to enhance and evolve
10 our markets continue to move forward.

11 I'll also repeat one other data point that I
12 made sure to bring to your attention the last time I
13 testified, and that is that Pennsylvanians over the last five
14 years have seen more than \$2 billion in savings through our
15 competitive markets.

16 Absent from my testimony in March was a
17 discussion of state legislation or policy related to
18 alternative energy portfolio standards expansion or the
19 concept of providing additional, out-of-market revenue
20 streams for nuclear, renewable, or any other forms of
21 electricity generation. At that time, House Bill 11 had not
22 yet been noticed or assigned to the Consumer Affairs
23 Committee. Clearly, as I now appear before you in a hearing
24 on House Bill 11, the committee has specific legislation
25 under consideration.

1 The purpose of this hearing notwithstanding,
2 it is important to note that PJM is neither a proponent nor
3 an opponent of this bill or the version that is currently
4 before the Senate Consumer Protection and Professional
5 Licensure Committee.

6 PJM recognizes and respects Pennsylvania's
7 prerogative to set forth policies regarding environmental
8 protection, workforce retention, local tax base, or any other
9 policy. PJM also recognizes that state policy plays a role
10 in determining the assets and the fuel mix used to meet the
11 Commonwealth's resource adequacy needs. That PJM is neither
12 an advocate nor an opponent of House Bill 11 should not,
13 however, be taken as an indication that the bill lacks
14 potential impact or consequences to our markets under the
15 current format and structure.

16 As I indicated in my prior testimony, the
17 benefits resulting from the PJM markets and enjoyed by
18 Pennsylvania consumers stem from the wisdom and foresight of
19 Pennsylvania's prior policy decisions to leverage the power
20 of competitive markets in meeting its resource adequacy
21 needs. However, those markets need to work efficiently if
22 they are to continue to achieve their goal of reliability at
23 lowest costs.

24 Our regulator, the Federal Energy Regulatory
25 Commission, recently ruled that the PJM capacity market for

1 resource adequacy has become unjust, unreasonable, and unduly
2 discriminatory because it fails to adequately address price
3 distortions created by out-of-market support for generation
4 resources, similar to the kind contemplated in House Bill 11.
5 The finding required PJM to file a proposal effort that
6 contains significant changes to the existing capacity market
7 in an attempt to address the deficiencies cited in the third
8 quarter.

9 The fact that PJM must alter its capacity
10 market to address the impact of out-of-market payments to
11 generation is not itself a validation or an indictment of the
12 policy behind out-of-market payments. It is simply an
13 indication that the policies, like the ones contemplated in
14 House Bill 11, can impact PJM markets. Given Pennsylvania's
15 decision to rely on PJM's markets to provide cost-effective
16 resource adequacy, this committee may find it useful to
17 understand these impacts and how the market changes
18 implemented as a result may in turn impact Pennsylvania.

19 This committee should also be aware that there
20 are alternatives to out-of-market payments for retaining or
21 incentivizing a resource mix that would achieve carbon
22 reduction goals that more efficiently integrate with the
23 market structure in which Pennsylvania has chosen to rely.
24 Implementing a price on carbon emissions is the primary and
25 most readily available such alternate.

1 The remainder of my testimony this morning
2 will provide additional detail pertaining to FERC's order,
3 PJM's policy proposal, and how the potential changes to the
4 PJM capacity market will interact with House Bill 11, if it
5 were to become law. It will also provide clarity on PJM's
6 role in the implementation of carbon pricing and how carbon
7 pricing can be integrated into PJM's existing capacity
8 market -- energy market, excuse me. Finally, we'll address
9 some possible misconceptions about the time frames under
10 which PJM's markets and planning processes seek to ensure
11 reliability.

12 In June of 2018, FERC issued an order in
13 response to a complaint to a PJM member that sought relief
14 from capacity market price suppression caused by what the
15 member characterized as below cost offers from existing
16 resources, who's continued operation is being subsidized by
17 state-approved, out-of-market payments. FERC found in favor
18 of the complainant.

19 In the introductory paragraph of FERC's order
20 on the complaint, FERC outlined its perspective on the impact
21 of out-of-market payments on the PJM capacity market. FERC
22 said, and I'll quote, "Over the last few years, the integrity
23 and effectiveness of the capacity market administered by PJM
24 Interconnection have become untenably threatened by
25 out-of-market payments provided or required by certain states

1 for the purpose of supporting the entry or continued
2 operation of preferred generation resources that may not
3 otherwise be able to succeed in a competitive wholesale
4 capacity market." The order goes on to discuss how it is
5 likely that out-of-market payments to generation suppress
6 prices within the capacity market, thereby distorting the
7 price signals set through the yearly auction.

8 This is significant because the capacity
9 market relies on those price signals to incentivize efficient
10 market entry and exit. That is to say, the price signals are
11 an indicator as to when an uneconomic asset should exit the
12 market and when an economic asset should enter or remain in
13 the market. Over time, accurate price signals and efficient
14 market entry and exit ensure that resource adequacy is
15 maintained across the PJM region in the most economically
16 efficient manner, a key component of reliability at lowest
17 reasonable costs.

18 The concern over the impacts created by these
19 potential price distortions led FERC to declare that PA's
20 capacity market is unjust, unreasonable, and unduly
21 discriminatory. The finding that PJM's capacity market is
22 unjust and unreasonable requires PJM to address and remedy
23 the deficiencies cited by FERC as the underlying causes for
24 the finding.

25 In response, PJM submitted a proposal to FERC

1 that included an expansion of the current rules that prevent
2 these kinds of price distortions in the capacity market to
3 all types of resources instead of just new natural gas
4 combined-cycle units to which it currently applies. The PJM
5 proposal also offers an alternative option for capacity
6 resources that receive material subsidies from a state
7 through which they could avoid application of these expanded
8 rules. If approved by FERC, this option would be available
9 to capacity resources in Pennsylvania that receive a material
10 subsidy through the AEPS or other state-directed mechanisms.

11 The base rules would be an expansion of what
12 we call the minimum offer price rule, or MOPR. Under the
13 MOPR, the capacity resource would be assigned a minimum price
14 to be used in its bid for the capacity auction. If the MOPR
15 price is too high, the resource will likely not clear in the
16 auction, and thus, will not receive capacity revenue. And
17 failing to clear in the capacity market would most likely
18 exacerbate revenue challenges that led to the need for a
19 material subsidy in the first place.

20 The alternative option under PJM's proposal
21 would, in the event a resource was concerned its MOPR price
22 was too high to clear the auction, allow the resource to
23 remove itself -- in other words, carve itself out -- as well
24 as a commensurate amount of load or demand from the capacity
25 auction altogether. PJM would then procure only the quantity

1 of capacity necessary to meet the remaining demand on the
2 system, and the carved out resource would receive a PJM
3 capacity commitment identical to that of those that are
4 actually cleared through the auction.

5 While this option would not in and of itself
6 remove the price suppressive effect of a resource with a
7 material subsidy, it would preserve the opportunity for a
8 state to directly compensate the resource for its capacity
9 value as opposed to having that revenue stream come from the
10 capacity market itself. This option also ensures that such a
11 resource would be counted among the set of capacity resources
12 on which PJM would rely.

13 This option would extensively require
14 Pennsylvania to pass both legislation authorizing a resource
15 owner to choose the carve-out option and a mechanism for the
16 state to compensate resources required to meet the demand or
17 load that has been carved out of the option. My
18 understanding is that House Bill 11 -- Section 8.2 was
19 included in anticipation of this need.

20 In addition to these provisions, accommodating
21 state policy decisions with respect to capacity resource and
22 to address the price suppression that would otherwise remain,
23 PJM also proposed a method to establish a competitive
24 clearing price through the auction so that Pennsylvania and
25 other states continuing to rely on the price signals set by

1 the markets to ensure long-term resource adequacy for the
2 remainder of its resourcements could rest assured that the
3 markets will continue to perform that function effectively.

4 Again, now FERC requires PJM to alter its
5 capacity market in some fashion to protect against the price
6 suppressive effects of proliferating subsidies. It does not
7 result in PJM taking a position in support of or opposition
8 to House Bill 11. The fact is simply that FERC has
9 determined that the kind of out-of-market payments
10 contemplated by House Bill 11 impact the capacity market and
11 that PJM must respond to that finding.

12 Given Pennsylvania's reliance on the efficient
13 operation of these markets for the continued provision of
14 resource adequacy at least cost, I would expect Pennsylvania
15 would be supportive of these efforts on the part of PJM and
16 FERC.

17 If approved, PJM's capacity proposal pending
18 before FERC would likely result in Pennsylvania capacity
19 resources eligible for the Tier III AESP credit receiving
20 capacity revenue directly from a state-implemented mechanism
21 as opposed to the competitive markets. Much of the
22 discussion around the need for the Tier III credit
23 contemplated by House Bill 11, as well as the granting of
24 zero emissions credits in states like Illinois and New
25 Jersey, center on state policy aspirations to reduce carbon

1 emissions from electricity generation.

2 In all of the states that have contemplated or
3 are contemplating out-of-markets payments to nuclear
4 generation based on carbon emission presumptions -- excuse
5 me, aspirations -- the question of carbon pricing arises as
6 an alternative. A price on carbon emissions generally
7 integrates well with PJM's current markets. This is true in
8 Maryland and Delaware, two states in PJM that participate in
9 regional greenhouse gas initiatives, or RGGI, and generators
10 in both states are able to include RGGI prices for carbon
11 when they bid into the PJM energy market.

12 While PJM recognizes the economic efficiency
13 of addressing emission concerns by pricing carbon, please let
14 me be clear that PJM does not have the authority to actually
15 implement a carbon price. PJM is not a regulatory authority
16 whether it be for environmental air quality or any other
17 policy making reason. PJM believes that if a state wants a
18 price on carbon, that price must come from the federal
19 government, a state government, or through state agreements
20 such as RGGI. Again, to be clear, PJM has no role in
21 authorizing a price for carbon emissions, nor would it play a
22 role in setting administrative prices for carbon emissions.

23 Where PJM can play a role is in developing
24 market-based mechanisms to help mitigate state impact between
25 states within the PJM region that do or do not choose to

1 implement carbon pricing. PJM stakeholders recently voted to
2 commence a process to examine that very issue.

3 The outcome of that process will not result in
4 PJM creating a carbon price or attempting to mandate that any
5 state be required to do so. Rather, the process will
6 determine whether and what market rule enhancements may be
7 necessary to ensure that states implementing a price on
8 carbon emissions enjoy the full benefits of doing so, while
9 minimizing any cost shifts to states that do not elect to
10 implement a carbon price.

11 While I'm on the subject of carbon emission
12 pricing, I would like to address statements made in
13 Pennsylvania and elsewhere insinuating that PJM's markets are
14 flawed because they do not place a value on carbon-free
15 generation or provide compensation to generators that have
16 low-cost emission -- I'm sorry -- low-carbon emission
17 attributes.

18 It is true that PJM's market do not inherently
19 value carbon-free generation. As it is being discussed here,
20 though, carbon emissions are an externality. By definition,
21 externalities are not valued in a market unless, generally, a
22 policy-making entity has made the decision to assign a cost
23 to that externality.

24 The omission of such an externality is by no
25 means unique to PJM's markets. PJM's markets can, however,

1 be leveraged to bring the benefits and discipline of
2 competition to a state's carbon mitigation policy goals, but
3 it requires that state to authorize a cost to be assigned to
4 those carbon emissions.

5 In the discussion on House Bill 11, and the
6 discussions on similar bills in other states, PJM and its
7 markets have been occasionally maligned for allegedly valuing
8 resources exclusively when they are the lowest cost
9 electricity provider over the next five minutes. This is a
10 mischaracterization.

11 It is true that as the system operator for the
12 PJM region, we are charged with the responsibility of
13 matching generation and load on an instantaneous basis. It
14 is also true that we settle on an energy market on a
15 five-minute basis so that we can use price signals at a level
16 of granularity and on a frequency that incentivizes behaviors
17 conducive to maintaining reliability and system stability.
18 It is incorrect, however, to say that our markets, prices, or
19 processes go no further than low cost for five minutes.

20 First, our energy and ancillary service
21 markets are designed to incentivize multiple attributes
22 necessary to maintain reliability over the next five minutes,
23 the next hour, the next day, and so on. Additionally, PJM's
24 capacity market procures resources to ensure supply adequacy
25 looking ahead three years. Finally, PJM's transmission

1 planning process looks out over the next 15 years to ensure
2 that our total system can maintain reliable electricity
3 service for the foreseeable future. Together, PJM's markets,
4 information platforms, and planning processes value assets
5 necessary for reliability over the immediate, short, medium,
6 and long-term time frames.

7 I hope that my appearance before the committee
8 and the conversations you have had both formally and
9 informally with other PJM employees provide a comfort level
10 that PJM is vigilantly ensuring that electricity production
11 and transmission are reliable today and will be so into the
12 foreseeable future. I also hope that you feel that PJM and
13 our markets are bringing demonstrable value to Pennsylvania,
14 its residents, and its businesses.

15 PJM sincerely respects Pennsylvania's
16 prerogatives regarding state policy, but also takes very
17 seriously our responsibility to ensure that as long as our
18 markets are relied upon to provide cost-effective reliability
19 for the region we serve, those markets need to be able to
20 function effectively.

21 No matter the outcome of House Bill 11, the
22 debate over carbon emissions and the potential to assign a
23 price to them will continue. While PJM will not be the ones
24 to implement a carbon price, we stand ready to help you
25 understand how carbon pricing can integrate with the

1 wholesale markets to the benefit of Pennsylvania.

2 Chairs Roae and Matzie, and distinguished
3 members of the committee, again, I thank you for the
4 opportunity to present my testimony today, and I look forward
5 to answering any questions you may have.

6 MAJORITY CHAIRMAN ROAE: Thank you,
7 Mr. Bresler, for your testimony.

8 We're going to have the questions at end of
9 the hearing, so -- if that's okay. Sometimes questions might
10 be answered by, you know, more than one of the testifiers.
11 So the questions are going to be at the end.

12 Our next testifier is going to be Gladys Brown
13 Dutrieuille, who is the chairwoman of the Pennsylvania Public
14 Utility Commission.

15 Thank you so much for being here today to
16 testify. And when you're ready, you may begin.

17 MS. DUTRIEUILLE: Thank you.

18 Good morning, Chairman Roae, Chairman Matzie,
19 and members of the House Consumer Affairs Committee.

20 I am Gladys Brown Dutrieuille, chair of the
21 commission, and I'm happy to come and discuss and testify
22 before you concerning House Bill 11 and also provide you with
23 some general background in terms of the electric market in
24 Pennsylvania and our commission's stance on the bill and some
25 of the impacts of the bill.

1 So just to give you some background in terms
2 of Pennsylvania's electric market, starting with the passage
3 of the Electricity Generation Customer Choice and Competition
4 Act of 1996 and progressing through the Alternative Energy
5 Portfolio Standards Act of 2004, the Commonwealth finds
6 itself host to a vibrant electric generation landscape.

7 In 2018, Pennsylvania's generation fleet was
8 comprised of about 44,753 megawatts, the largest amount of
9 state install capacity in the PJM Interconnection footprint.
10 When compared with a peak demand of about 30,000 megawatts,
11 Pennsylvania finds itself operating as a significant
12 electricity exporter.

13 Equally important is the press of diversity of
14 the Pennsylvania fleet. On an install capacity basis, the
15 state's fleet is comprised of approximately 38 percent
16 natural gas, 26 percent coal, 22 percent nuclear, 4 percent
17 oil, 5 percent hydro, 3 percent wind, and less than 1 percent
18 of solar.

19 Further, the retail competition market has
20 been fairly successful with over 32 percent of customers, and
21 about 65 percent load, enrolled with an electric generation
22 supplier. Diversity of generation and competitive market
23 forces have worked in tandem to facilitate reliable and
24 economic electricity in the Commonwealth.

25 So thus, in our view, this is a positive story

1 when compared with the pre-Competition Act in terms of the
2 electricity marketplace. At that time, the state's
3 electricity prices were significantly higher than the
4 national average. And I know you have heard that before.
5 Adjusted for inflation, the price for electricity in the PJM
6 regional transmission organization territory that
7 Pennsylvania belongs to, has increased just slightly from a
8 little over \$37 per megawatt hour in 1999 to a little over
9 \$40 per megawatt hour in 2018. Further, the amount of
10 generation available above and beyond the projected peak
11 demand, otherwise known as the reserve margin, was about
12 22.9 percent for the years 2017, 2018.

13 Two main drivers have led to our state's
14 current market success, and the first one is the advent of
15 natural gas production and corresponding natural gas fueled
16 electric generation. The second is the fostering of
17 competitive forces established by the economic deregulation
18 of the electric generation market.

19 On the topic of natural gas fueled generation,
20 breakthroughs in drilling technology have dramatically
21 altered the economics of the commodity. As such, the price
22 for natural gas has decreased from \$8.86 per MMBtu in 2008,
23 to \$3.15 per MMBtu in 2018. This shift in natural gas prices
24 facilitated an opportunity to increase the use of the
25 resource as a fuel for electric generation. Therefore,

1 multiple new facilities have been constructed in the state
2 totaling over 5,000 megawatts of install capacity, and there
3 are more, as you know, natural gas generation facilities
4 being planned for operation in the near future.

5 Since wholesale energy prices are unregulated,
6 the competitive marketplace dictates the value of energy.
7 The marketplace does this through a set of routine auctions.
8 These auctions utilize a stack of offers which meet expected
9 demand at the least cost while also leading physical
10 deliverability requirements.

11 The pendulum shift of investment toward
12 natural gas created a shake-up in previous price formation
13 dynamics. Historically, coal generation plants were the
14 predominant price setters. The influx of this cheap natural
15 gas generation capacity transitioned the price setting
16 economics to natural gas fleet. And this has been the case
17 for a number of years. So initially, this price shift
18 largely affected coal plants and was a significant driver in
19 the retirement of a large portion of install coal capacity.

20 Now the sustained effect of natural gas on
21 electricity prices has begun to affect the economics of
22 nuclear plants. Over recent years, many of the nuclear
23 plants in Pennsylvania have reported reduced profit margins
24 or potentially lost money. Further, future prices indicate
25 that some nuclear plants are expected to continue realizing

1 smaller margin or negative margin.

2 Case and point is Three Mile Island Nuclear
3 Generation Facility, or TMI, since this facility's output is
4 limited. Because it relies on a single reactor, its
5 economics are more challenging.

6 This leads to the policy question the general
7 assembly is now setting out to address. Should the general
8 assembly, in order to achieve certain public policy goals,
9 intervene in this largely competitive marketplace or is it
10 prudent to permit the current marketplace design to run its
11 course?

12 As we look at AEPS, the current AEPS is
13 market-driven program, which requires electric distribution
14 companies or electric generation suppliers to include as part
15 of their retail electric sales certain resources of renewable
16 generation. This is accomplished through the acquisition and
17 retirement of Tier I, which includes solar, wind, low-impact
18 hydro, as well as Tier II, which includes waste coal, large
19 scale hydro power, and municipal solid waste.

20 Alternative energy credits -- as an amendment
21 to the AEPS, House Bill 11, which we are discussing today,
22 creates a new Tier III set of resources characterized by zero
23 emissions. Tier III includes a number of those resources
24 already included in Tier I, as I stated earlier, such as
25 solar, wind, low-impact hydro, and geothermal, while adding

1 the additional qualifying resource of nuclear.

2 The Tier III credit requirement is 50 percent
3 of the Commonwealth's retail electric sales. Tier III
4 credits would be valued based on the price of Tier I credits
5 with a hard floor and a ceiling ultimately controlling the
6 credit valuation.

7 In a manner which deviates from the design of
8 Tier I and Tier II credit markets -- which assigns liability
9 for compliance to all the various low-serving entities, such
10 as EDCs, EGSs operating in the Commonwealth -- under House
11 Bill 11, EDCs are responsible for purchasing all of the Tier
12 III credits, including those associated with the electric
13 generation supplier load, necessary to meet the 50 percent
14 mandate for the entire electric demand in their perspective
15 service territories.

16 Further, in contrast to the existing AEPS
17 design, which permits all qualified facilities the
18 opportunity to be certified for Tier I and Tier II credits,
19 only a limited number of Tier III resources necessary to
20 reach the 50 percent target would be qualified. The
21 commission would qualify the required number of generators
22 through a ranking process which prioritizes each applicant's
23 environmental benefits provided to the Commonwealth for a
24 six-year period.

25 Finally, House Bill 11 includes a provision to

1 permit AEPS qualified resources to opt out of the local RTO
2 centralized capacity auction, and thereby receive a
3 substantial revenue stream through alternative means -- a
4 substantive revenue stream through alternative means.

5 The impact of House Bill 11, we recognize as a
6 commission that there are a number of public policy variables
7 being considered in the context of this proposed
8 intervention. These impacts include, but are not necessarily
9 limited to, things like the local economies, the tax, taxes,
10 jobs, environment, electrical liability, the generation fleet
11 diversity, wholesale electric prices, and customer
12 electricity costs.

13 As an economic regulator -- and I emphasize
14 that, we are the economic regulator -- it is incumbent on us,
15 on the commission, to monitor policies that have a material
16 effect on electric customers' prices. To the contrary, it is
17 not in the commission's purview to offer official input
18 associated with the impact of local economies, taxes, and
19 jobs. Further, while the commission does indirectly address
20 policies pertaining to the environment, we respectfully defer
21 the discussion of this topic to the Department of
22 Environmental Protection, which will be coming up later.

23 As to the topic of electric reliability, PJM
24 has conducted studies to review the effects on grid
25 reliability of the potential retirements of TMI and Beaver

1 Valley nuclear generation facilities. Both studies have
2 concluded that the retirement of TMI and Beaver Valley will
3 not adversely affect the reliability of the wholesale
4 electric grid. The retirement of TMI will require no further
5 investment in transmission as a direct result, while the
6 retirement of Beaver Valley will require upgrades to the
7 transmission system located near or around that generation
8 facility totaling approximately \$180 million.

9 On the topic of the generation diversity, the
10 makeup of the existing Pennsylvania generation fleet is quite
11 robust. As explained earlier, nuclear makes up about
12 22 percent of the install capacity in the Commonwealth. The
13 retirement of both TMI and Beaver Valley would reduce the
14 nuclear install capacity by roughly 2800 megawatts, or about
15 28 percent of Pennsylvania's nuclear fleet capacity. So
16 holding all else equal, this would reduce the total share of
17 Pennsylvania's nuclear fleet install capacity from the
18 current 22 to 16 percent.

19 The effects on wholesale power prices is also
20 an important variable to analyze in the discussion.

21 There was a 2008 Penn State University study
22 that analyzed the effect of the retirements of TMI and Beaver
23 Valley and what effect that would have on these prices. The
24 study provided two results which are informative. First, if
25 no new generation were to be built to replace these nuclear

1 facilities, energy prices would rise in a range of four to
2 ten percent each year over the next three years. Conversely,
3 if the lost nuclear capacity is replaced by natural gas
4 fueled generation, which is probably the likely outcome, the
5 wholesale energy prices would decrease in a range from nine
6 percent to twenty-four percent each year over the next three
7 years.

8 Finally, the commission has analyzed the
9 overall credit costs from a Tier III program. The
10 commission's initial analysis of House Bill 11 resulted in an
11 estimated minimum cost annually of about \$420 million to an
12 estimated maximum annual cost of about 550 million. These
13 estimates are based on projected electric usage for the 2020
14 calendar year, the cost of AEPS Tier I compliance credits for
15 the 2017 compliance year, and the price floor and ceiling
16 formally established in House Bill 11.

17 So for a residential customer using
18 approximately, about 500 kilowatts, the average monthly cost
19 would range about \$1.50 to \$2 a month. For a residential
20 customer that's using about 2000 kilowatts per month, the
21 cost would range from about six to eight dollars per month.
22 For businesses consuming substantially more electricity, the
23 cost would correspondingly be higher. For example, a large
24 commercial customer using about 200,000 kilowatt hours per
25 month would see a range of cost of about 600 to \$800 monthly.

1 So in terms of the implementation by the
2 commission in House Bill 11, we know that the bill places a
3 substantial amount of responsibility on us to administer the
4 Tier III program. House Bill 11 would require the commission
5 to solicit and evaluate applications in the participation in
6 the Tier III program, as well as select and range qualified
7 applicants, establish the price of Tier III credits,
8 facilitate the transfer of credits to EDCs, coordinate
9 payments for the credits to the Tier III sources, and monitor
10 Tier III compliance.

11 The unique design of House Bill 11 makes it
12 challenging for the commission to estimate the overall cost
13 for administering this program. Specifically, the projected
14 cost for the external administrator contract is challenging
15 to gauge without issuing a formal request for information.

16 Nonetheless, estimates for contract costs for
17 an administrator to manage the Tier III requirements and
18 projecting internal costs for analytical, legal, and
19 administrative work results in an initial total commission
20 cost estimate of about 2.5 million annually. And I
21 respectfully emphasize that this is initial costs.

22 In terms of our position, you have heard us
23 say that we are neutral on House Bill 11. We recognize that
24 the general assembly must weigh various public policy
25 objectives as it considers this proposed legislation. We

1 envision our role as an objective facilitator of the dialogue
2 around this legislatively process.

3 Since the passage of the Competition Act back
4 in 1996, the commission has placed an increased focus on the
5 energy arenas within our direct economic and service
6 quality-based regulatory authority, such as electric
7 deliberation costs and reliability metrics.

8 Our role in the wholesale generation landscape
9 is limited to the general oversight to ensure that policy
10 movements do not negatively affect Pennsylvania's competitive
11 retail market, reliability, or affordability. To that end,
12 the commission's stance since the Competition Act was passed
13 has been supportive of competitive wholesale markets insofar
14 as they deliver reliable service at reasonable costs.

15 Nonetheless, it is appropriate for the general assembly to
16 consider changes in the direction of policy from time to
17 time, such as that being considered under House Bill 11.

18 The commission respectfully wishes to shed
19 light on a few important issues within the current draft of
20 House Bill 11.

21 Because the commission is the economic
22 regulator, we would be remiss in not pointing out that the
23 legislation will provide considerable out-of-market revenues
24 to all nuclear generation in the state regardless of whether
25 or not the plans require financial assistance above that

1 provided by the PJM wholesale markets. Based on information
2 provided by the PJM Independent Market Monitor, only TMI is
3 clearly financially troubled at this time.

4 Payment of Tier III subsidies to all
5 Pennsylvania nuclear plants would result in higher capacity
6 market payments by Pennsylvania customers should FERC approve
7 capacity market proposals filed by PJM. Additionally, a
8 number of energy and ancillary service reforms are under
9 consideration by PJM. And you've heard about them from Stu
10 currently.

11 Energy price formation, fuel security, and
12 resilience, which all have the potential to raise energy
13 prices to the benefit of nuclear generation, these additional
14 revenues would be an additive to those provided under House
15 Bill 11 and would ultimately be borne by the ratepayers.
16 Further, PJM has convened a stakeholder process to study how
17 to incorporate various carbon pricing options into the
18 markets.

19 With regard to the commission's administrative
20 duties enumerated under House Bill 11, the commission submits
21 that House Bill 11 does not provide sufficient time to
22 perform certain key functions. First, House Bill 11 permits
23 no time for the commission to complete an implementation
24 proceeding. Ideally, the commission would have six months to
25 nine months to complete a proceeding which provides detailed

1 guidance to interested stakeholders. This would allow for a
2 more transparent and orderly implementation of the generator
3 application rankings, the EDC's funding mechanisms, the
4 publishing of the Tier III prices, and the Tier III credit
5 requirements, and securing a contract for a Tier III
6 administrator.

7 Also, House Bill 11 presently only permits the
8 commission 90 days to review and rank the generator
9 applications. This process includes determining that the
10 applicant is zero omitting, that it satisfies the
11 interconnection and emission requirements, that it meets the
12 financial and ownership requirements, and ranking all
13 applicants to determine which receive Tier III credits and
14 which do not. And we respectfully ask that this time table
15 be extended to about 180 days.

16 Additionally, House Bill 11 establishes
17 sequence time lines for the transfer of and payment for Tier
18 III credits. These include the following: Thirty-five days
19 for the transfer of all credits from Tier III resources to
20 the program administrator, seven days for the EDCs to
21 purchase Tier III credits from the administrator, and
22 finally, seven days for the transfer of the Tier III credit
23 revenues from the administrator to the Tier III resources.

24 The commission submits that these time tables
25 are untenable. First, it is unlikely that EDCs will have

1 final billing quality usage data for the entire year within
2 35 days. Availability of such billing quality you see stated
3 is vital to calculating Tier III credit requirements.
4 Equally important, the seven-day time lines for collection
5 and disbursement of Tier III revenues would be extremely
6 challenging given the dynamics associated with these tasks
7 and the magnitude of dollars channeling through the program
8 administrator.

9 Therefore, the commission seeks consideration
10 of an extension of all three time lines, or in the
11 alternative, a design which the commission does not act as
12 intermediary for collection and disbursement of Tier III
13 funds, but simply acts in an administrative role by
14 determining the number of credits each EDC purchases and from
15 which resource.

16 Finally, with regard to administration, House
17 Bill 11 does not provide an explicit funding mechanism to
18 support the commission's budget. Given the breath of
19 responsibilities placed on the commission in House Bill 11,
20 we ask that this committee give consideration to placing an
21 explicit funding mechanism in this bill.

22 So in closing -- I know that was a lot of
23 information. But in closing, we hope that this testimony has
24 helped frame a better understanding of Pennsylvania's
25 electric markets, the projected impacts -- as we see it -- of

1 House Bill 11, and the commission's enumerated
2 responsibilities under this bill.

3 This is a very complex bill and we emphasize
4 that. It is very complex. It represents a profound shift in
5 energy policy for the Commonwealth. But we are happy to work
6 with the committee and the general assembly as a whole and
7 the Governor to facilitate your thoughtful consideration and
8 deliberations during this legislative process.

9 MAJORITY CHAIRMAN ROAE: All right. Thank you
10 for your testimony.

11 And again, we're going to save the questions
12 for after all of the testifiers.

13 So next we're going to have David Althoff -- I
14 apologize if I pronounced that wrong. He's the director of
15 the Energy Programs Office at the Department of Environmental
16 Protection.

17 Whenever you're ready, sir.

18 MR. ALTHOFF: Thank you.

19 Good morning, Chairman Roae, Chairman Matzie,
20 and members of the committee.

21 My name is David Althoff and I'm the director
22 of the Energy Programs Office in the Pennsylvania Department
23 of Environmental Protection. I would like to thank you for
24 the opportunity to appear before you today to discuss the
25 Alternative Energy Portfolio Standards Act, the department's

1 role in administering it, as well as the recommendations for
2 program improvement, which I hope to focus on.

3 Pennsylvania's Alternative Energy Portfolio
4 Standards Act enacted in 2004 and administered by the Public
5 Utility Commission, in cooperation with the department,
6 requires that 18 percent of electric power come from
7 alternative and renewable energy resources, including eight
8 percent from renewable resources like solar and wind by 2021.
9 The standard has helped grow the clean energy industry in
10 Pennsylvania while providing support for the developed
11 deployment of clean energy options to Pennsylvania businesses
12 and homeowners.

13 As of 2017, more than 1300 megawatts of wind
14 power and 285 megawatts of solar have been installed in
15 Pennsylvania. These resources have brought in billions of
16 dollars of capital investment in Pennsylvania. For the 2017
17 reporting period, 14.2 percent of electricity sold to retail
18 customers was produced by qualified alternative and renewable
19 energy providers from both in-state and out-of-state
20 resources.

21 So DEP plays an important role in
22 administering the Alternative Energy Portfolio Standard. The
23 AEPS Act directed that DEP ensure that all qualified
24 alternative energy resources meet all applicable
25 environmental standards, and in addition, verify that an

1 alternative energy resource meets the eligibility definitions
2 and criteria set forth in the act.

3 Additionally, the act instructed the DEP to
4 work cooperatively with the PUC to monitor the performance of
5 all aspects of the act and work collaboratively in the
6 provision of an annual report to the Senate and House of
7 Representatives. The annual report includes the status of
8 the compliance by electric distribution companies and
9 electric generation suppliers, current costs of alternative
10 energy for all alternative energy technologies types, cost
11 associated with the alternative energy credits program, the
12 status of alternative energy marketplace, and recommendations
13 for program improvements.

14 Throughout each reporting year, the Energy
15 Programs Office works together with the PUC and the AEPS
16 administrator to conduct an environmental compliance review
17 to ensure those facilities with environmental permits are
18 maintaining operations in compliance with all applicable
19 environmental standards. In addition, DEP assists the PUC in
20 ensuring that all energy resources meet the requirements of
21 the act and we work together to review alternative energy
22 data and trends from the AEPS program to gain insight into
23 the energy marketplace within Pennsylvania. Lastly, as
24 instructed by the act, my office also works closely with PUC
25 staff to review and help develop, as I mentioned, the annual

1 report to the legislature documenting these compliances and
2 trends.

3 So in the 2017 reporting year, we identified
4 several trends. It's notable that for the Tier I non-solar
5 requirement, which drives the substantial majority of the
6 AEPS program's investments, 26 percent of the credits came
7 from Pennsylvania, 27 percent came from Illinois, 24 percent
8 came from Virginia. Wind energy, 80 percent of which comes
9 from outside of Pennsylvania, produced nearly half of the
10 Tier I credits. Hydro, biomass energy, and landfill gas
11 produced most of the rest of the Tier I credits.

12 Overall, according to the PUC's 2017 annual
13 report, the cost of the Tier I non-solar requirement was
14 approximately 98 million. In practical terms, this means
15 that roughly 26 million was invested in renewable energy
16 credits, RECs, generated within Pennsylvania, while
17 73 million was invested in RECs generated elsewhere, I would
18 note within the PJM territory.

19 For the solar PV requirement, 39 percent of
20 the retired credits originated in Pennsylvania, while 48
21 percent came from North Carolina, 5 percent from Ohio, 4
22 percent from Virginia, and the remaining other 4 percent from
23 other states within the PJM territory.

24 Looking forward, however, the number of solar
25 credits coming from out of state is expected to drastically

1 decrease due to the passage of Act 40 of 2017, which closed
2 the border on solar credits by allowing only facilities
3 located within Pennsylvania to be eligible for solar credits.
4 This act will now allow AEPS to support more in-state
5 investment in new solar deployments rather than existing
6 out-of-state solar installations.

7 Furthermore, expanding that eligibility
8 requirement to all Tier I resources would increase the
9 development of in-state alternative energy resources. As
10 only 26 percent of all Tier I credits retired in 2017 came
11 from Pennsylvania, closing the borders for the remaining Tier
12 I resources would allow Pennsylvanians to maximize the
13 environmental and economic benefits that are currently being
14 received by other states.

15 For the Tier II requirement, which requires
16 8.2 percent of the electricity portfolio, 66 percent of
17 retired credits are the result of energy production from
18 Pennsylvania resources, while the remaining third come from
19 energy resources in Virginia and West Virginia. Waste coal,
20 it's notable, produced nearly two-thirds of the available
21 Tier II credits from 16 eligible facilities, while hydro
22 pumped-storage produced approximately the remaining one-third
23 of the credits.

24 It's also important to note that the Tier II
25 credit price, which averaged 16 cents in 2017 compliance

1 year, is not nearly the robust incentive as the Tier II -- or
2 Tier II resources as compared to Tier I credit prices, mainly
3 due to oversupply of eligible resources in the Tier II
4 bucket.

5 The entire investment driven by Tier II credit
6 requirements in 2017 was almost \$2 million, 1.7. The exact
7 number is in your written testimony.

8 Opportunities for program improvement -- when
9 the original AEPS Act was passed 15 years ago, Pennsylvania
10 took a position as a leader in alternative energy
11 development. Pennsylvania's alternative energy portfolio
12 standard has been critical to helping to grow our clean
13 energy resources both in-state and in the PJM region. This
14 has helped to diversify our electricity generation portfolio
15 over the last 15 years. There is, however, still significant
16 room for improvement.

17 As a part of the department's responsibility
18 to provide recommendations to the AEPS program, and given
19 that the AEPS program is one of Pennsylvania's critical clean
20 energy policies, the department included analyses of
21 potential adjustments to the AEPS Act in the Pennsylvania
22 Solar Future Plan and the updated 2018 Climate Action Plan.

23 The Department's -- Pennsylvania's Solar
24 Future Plan presented 15 strategies to increase solar
25 generation to 10 percent of in-state electricity consumption

1 by 2030. All 15 strategies are in your written testimony, I
2 will highlight two of those.

3 Increasing the AEPS solar carve-out and
4 implementation of a carbon pricing strategy were two of the
5 top cross-cutting strategies listed in the Pennsylvania Solar
6 Future Plan.

7 Since the AEPS legislation passed in 2004,
8 nearby states have set significantly more aggressively
9 renewable targets, especially for solar. Maryland, Delaware,
10 and New Jersey have set solar targets at 2.5 percent,
11 3.5 percent, and 5.1 percent respectively, while
12 Pennsylvania's solar target remains at 0.5 percent of
13 supplied electricity.

14 The Solar Future Plan recommends increasing
15 the solar carve-out to between four to eight percent by 2030.
16 Analysis conducted as a part of the Solar Future Plan
17 predicts that greenhouse gas emissions would likely decrease
18 by 9.3 percent if the solar future goals are met.

19 Other states have also included aspects of
20 their portfolio standard that incentivize energy innovation
21 and develop a clean energy economy. Additions to an
22 alternative energy portfolio standard can include such things
23 as storage technologies that would bridge the intermittency
24 of solar and wind technologies, building more local
25 distributed generation projects to result in additional

1 resiliency to the grid, and creating micro-grid systems.

2 The Climate Action Plan, just released last
3 week, includes over 100 actions that government, businesses,
4 and citizens can take to both mitigate and adapt to climate
5 change. The plan sets targets in line with Governor Wolf's
6 recent executive order aimed at reducing greenhouse gas
7 emissions 26 percent from 2005 levels by 2025, and 80 percent
8 by 2050.

9 If all states achieve similar greenhouse gas
10 reduction targets and other nations met comparable goals,
11 climate science analysis suggests that global temperature
12 rise could be kept below the two-degree Celsius threshold
13 cited by experts as the level beyond which dire consequences
14 would occur.

15 The department's analysis team quantitatively
16 modeled 15 of the actions, including actions such as
17 increasing the AEPS, investing in renewable energy
18 generation, increasing energy conservation and energy
19 efficiency, and more. Using just those 15 actions, the
20 analysis team projected greenhouse gas emissions would
21 decrease 21 percent from 2005 levels by 2025, and 36 percent
22 by 2050.

23 Specifically, the team quantified a number of
24 actions related to the electricity sector. Three of those
25 actions are as follows: Increasing the alternative energy

1 portfolio standard Tier I targets to 30 percent by 2030 with
2 a 6 percent solar carve-out, and then increasing to a
3 50 percent Tier I target by 2050. Another action would be
4 implementation of a policy to maintain nuclear generation at
5 current levels whether through zero emission credits,
6 inclusion in the AEPS, or some other mechanism, or limit
7 carbon emissions through an electricity sector cap-and-trade
8 program.

9 The analysis found that implementing those
10 three actions could have significant environment benefits.
11 In fact, the analysis in the Climate Action Plan states that
12 just increasing the AEPS Tier I targets to those levels would
13 reduce in-state emissions an average of 16 million metric
14 tons of CO2 equivalent per year from 2020 to 2050.
15 Additionally, the modeling results showed that each action
16 was cost effective. The Climate Change Act of 2008 requires
17 that the department include cost effectiveness as a part of
18 the analysis when considering recommendations in the Climate
19 Action Plan.

20 In closing, as we near 2021, the department is
21 encouraged to see the legislature looking ahead to ensure
22 Pennsylvania continues to grow our in-state clean electricity
23 generating resources while supporting next generation
24 alternative energy and renewable energy technologies.

25 The AEPS Act states that DEP shall make

1 recommendations for AEPS program improvements. We look
2 forward to continuing to work with the legislature to provide
3 input on how the AEPS Act can help Pennsylvania not only
4 reduce emissions, but also maintain our status as an energy
5 leader by increasing competitiveness with neighboring states
6 in development and deployment of clean and alternative energy
7 resources.

8 This concludes my testimony today. I thank
9 you for the opportunity to provide it and I look forward to
10 questions.

11 MAJORITY CHAIRMAN ROAE: Thank you for your
12 testimony.

13 I'm going to break my own rule and ask one
14 quick question.

15 So is the Department of Environmental
16 Protection, as far as House Bill 11, are you neutral,
17 supportive, or opposed to the legislation?

18 MR. ALTHOFF: I would say that we are neutral.

19 MAJORITY CHAIRMAN ROAE: Neutral, okay.
20 That's what I thought. I just wanted to make sure.

21 All right. Well, thank you for your
22 testimony.

23 And we'll start following my own rule again,
24 the questions will be after everybody testifies.

25 Our next person -- unless Chairman Matzie

1 wants to break the rules also. Next is going to be Tanya
2 McCloskey. She is the acting consumer advocate for the
3 Office of Consumer Advocate.

4 So when you're ready.

5 MS. McCLOSKEY: Thank you.

6 Good morning, Chairman Roae, Chairman Matzie,
7 and members of the committee.

8 Thank you for having me here today to discuss
9 House Bill 11. These discussions are critical to consumers,
10 as any decisions will have a profound impact on consumers'
11 energy bills, as well as the type of energy service that
12 consumers receive.

13 In representing Pennsylvania's utility
14 consumers, my responsibility is to ensure that Pennsylvania
15 consumers enjoy safe and reliable service at reasonable
16 prices. For electric service, consumers should have an
17 electric system that is reliable, efficient, economic,
18 environmentally sustainable, and diverse.

19 I've provided written testimony with various
20 attachments containing information and data. In the interest
21 of time, I will touch on a few key points here today.

22 In 1996, the Commonwealth made a decision to
23 utilize competitive wholesale generation markets to meet the
24 electric needs of consumers in Pennsylvania. In my view, our
25 decision was well placed, particularly as it concerns the

1 wholesale markets for electricity. Our competitive wholesale
2 markets have now produced a diverse array of generation,
3 serving the needs of customers in the PJM region, lower
4 emissions of carbon and other pollutants, and lower prices
5 for consumers.

6 I understand the concern that the success that
7 we have achieved in PJM in reducing generation prices has
8 made it more difficult for some existing power plants to
9 operate profitably. The particular concern that is the
10 subject of the proposed legislation is the nuclear plants in
11 Pennsylvania.

12 In my view, however, we should not simply turn
13 away from market mechanisms that have worked so well and
14 impose hundreds of millions of dollars annually in
15 unnecessary, out-of-market subsidies on ratepayers.

16 Under House Bill 11, my office has estimated
17 that the annual cost to consumers is between 422 million and
18 548 million based on the proposed floor and ceiling price.
19 Over the first six-year term of the proposal, between two and
20 a half billion and 3.3 billion of ratepayer funds would be
21 transferred to the shareholders of major generating companies
22 without any showing of financial necessity or financial
23 distress.

24 You have heard from the representatives of
25 industrial customers, and will hear today about the impact on

1 small businesses. I wanted to touch briefly on the impact on
2 residential customers.

3 While the monthly or yearly impacts we have
4 calculated for residential customers might not look
5 significant to you and me, we must always remember how many
6 Pennsylvania residents struggle to make ends meets.

7 In Pennsylvania, approximately 300,000
8 households live at or below 50 percent of the federal poverty
9 level. For a family of three, that would be an income of
10 less than \$10,665 per year. Approximately 1.25 million
11 Pennsylvania electric customers have incomes below
12 150 percent of the federal poverty level. These low-income
13 households report that they go without food, medicine, and
14 adequate heat in order to pay their utility bills. What may
15 seem the smallest increase can force many Pennsylvania
16 households to make difficult and often life-changing choices.

17 These ratepayer funds would be mostly paid to
18 owners of nuclear units that are already showing a profit in
19 today's wholesale markets, and based upon the PJM's market
20 monitors' analysis, have been profitable for most of the
21 years since 2008 when the analysis began and will be
22 profitable through 2021. Only one Pennsylvania unit, TMI 1,
23 a single station plant, is uneconomic in today's wholesale
24 market.

25 Simply put, House Bill 11 provides a \$500

1 million a year solution to a \$60 million a year problem. The
2 remainder of the payment is a windfall to already profitable
3 plants exclusively from Pennsylvania consumers. This is
4 simply not a cost-effective means to achieve any goal.

5 It is important to remember that Pennsylvania
6 ratepayers have already paid over 11.2 billion in stranded
7 costs, about 6.8 billion to 9 billion for nuclear assets, as
8 we restructured our electric industry to move to a model that
9 utilizes the competitive markets for supplying our electric
10 generation.

11 Pennsylvania used what was referred to as a
12 once-and-done approach to stranded cost, meaning that there
13 was no true-up or reconciliation of the estimated market
14 prices to the actual market prices. When actual market
15 prices exceeded the estimates we used and the nuclear units
16 were more profitable in the wholesale markets than expected,
17 those profits were retained by the nuclear plant owners.

18 House Bill 11 would now create a heads-I-win,
19 tails-you-lose situation in which nuclear plant owners retain
20 the benefits of high profits achieved when market prices were
21 high, but then receive a subsidy when market prices are low.
22 The lack of any required showing of financial necessity is a
23 fatal flaw in House Bill 11, in my view.

24 House Bill 11 is harmful to ratepayers in
25 other ways. On page 6 of my testimony, I discuss several of

1 the other significant concerns with House Bill 11 that must
2 be considered. One concern I would mention is with Section
3 8.2 on capacity payments to alternative resources that
4 Mr. Bresler noted in his testimony.

5 Section 8.2 may be inconsistent with retail
6 choice in Pennsylvania. The section assumes a certainty in
7 load for the load serving entity that does not necessarily
8 exist when customers can switch suppliers as frequently as
9 they wish. As Chair Brown Dutrieuille noted, we have
10 65 percent of our load with alternative suppliers, and we
11 have, at this time active, over 70 to 100 alternative
12 suppliers.

13 Direct subsidies can distort our wholesale
14 markets, increase customers bills without commensurate
15 benefit, and as the PJM market monitor has often said, become
16 contagious. Direct subsidies place the proverbial thumb on
17 the scale for certain resources at an additional cost to
18 ratepayers. House Bill 11 heavily weights the scale for
19 existing nuclear resources that have already received
20 substantial ratepayer support and could divert scarce
21 resources from other efficient, innovative, and
22 cost-effective solutions.

23 Rather than perpetuate out-of-market
24 subsidies, I think it is critical that we identify our
25 specific long-term energy goals, determine to what extent the

1 cost of achieving those goals properly lies with Pennsylvania
2 utility ratepayers, ensure that the cost of achieving the
3 goals is commensurate with the benefits, and identify the
4 market mechanisms we can use to achieve those goals. Market
5 mechanisms such as setting a price on carbon or establishing
6 a cap-and-trade program and joining the regional greenhouse
7 gas initiative are two possible approaches if our goal is to
8 reduce carbon.

9 Importantly, while these mechanisms would
10 increase energy prices to consumers, the proceeds from these
11 market mechanisms are returned to the state and can be used
12 for a number of purposes, including reducing ratepayer bill
13 impacts, supporting energy efficiency or renewable resources,
14 and supporting effective communities. At the same time, the
15 higher energy prices would provide added revenue to the
16 state's nuclear fleet.

17 It is possible that in the short term
18 market-based solutions may not fully close the gap in
19 ensuring that necessary resources are available to achieve
20 our goals. Approaches such as a need-based support for
21 financially distressed units and enhanced portfolio standards
22 that are targeted to closing demonstrated gaps in market
23 development may be needed. Such approaches, if needed, must
24 be accompanied by consumer protections to ensure that
25 electric rates remain just and reasonable.

1 On page 9 of my testimony, I provide some of
2 those key protections and key principles that should be
3 included in any consideration of out-of-market subsidies.

4 Respectfully, I cannot support House Bill 11
5 as it would harm ratepayers and would not advance the goal of
6 a reliable, efficient, economic, environmentally sustainable,
7 and diverse energy supply in a cost-effective manner.

8 I stand ready to work with this committee and
9 staff to craft a bill that protects and benefits ratepayers,
10 addresses workers and communities, benefits the Commonwealth,
11 and advances our energy goals.

12 Thank you again for inviting me to testify. I
13 look forward to continuing to work with your committee on
14 these important matters.

15 MAJORITY CHAIRMAN ROAE: Thank you for your
16 testimony.

17 And our final testifier is going to be Shelby
18 Linton-Keddie. She is the assistant small business advocate
19 from the Office of Small Business Advocate.

20 So when you are ready, you may begin.

21 MS. LINTON-KEDDIE: Good afternoon, Chairman
22 Roae, Chairman Matzie, and distinguished members of the House
23 Consumer Affairs Committee.

24 Good afternoon, as well, to my esteemed
25 colleagues from PJM, PUC, DEP, and OCA.

1 My name is Shelby Linton-Keddie, and I serve
2 as an assistant small business advocate with the Office of
3 Small Business Advocate. The Small Business Advocate John
4 Evans regrets that he was unable to join us today, but has
5 asked me to provide the committee and other interested
6 stakeholders with the OSBA's position with House Bill 11.
7 Thank you again for inviting us to share our thoughts.

8 The OSBA is charged with representing the
9 interests of Pennsylvania's more than 650,000 small business
10 utility customers in proceedings before the Pennsylvania
11 Public Utility Commission, any comparable federal regulatory
12 energy -- or, sorry -- agencies and in the courts. The OSBA
13 statutory duty is to ensure that small businesses, so crucial
14 to the Commonwealth's economy, pay reasonable rates for safe
15 and reliable utility service. With this statutory duty in
16 mind, the OSBA cannot support House Bill 11 as written.

17 As everyone is aware, the Commonwealth
18 deregulated the generation of electricity in 1996.
19 Deregulation also permitted utilities across the Commonwealth
20 to recover their stranded costs for assets that were no
21 longer used and useful. Specifically, by 2011, Commonwealth
22 utilities recovered almost \$9 billion in compensation for
23 their nuclear assets.

24 Despite deregulation and years of stranded
25 cost recovery, the Governor, the legislature, and the

1 statutory advocates still spend a lot of time talking about
2 generation. This is a direct result of the fortunate fact
3 that the Commonwealth is a net exporter of energy. As has
4 been explained numerous times in these proceedings,
5 Pennsylvania is second in the country for nuclear production,
6 second for natural gas extraction, and third for coal
7 production. While that's excellent news for the
8 Commonwealth, it results in a lot of competing interests.

9 As proposed, House Bill 11 would amend the
10 Commonwealth's Alternative Energy Portfolio Standards Act to
11 add a new obligation for electric distribution utilities.
12 Specifically, those utilities would be required to purchase
13 credits from a specific set of energy resources equivalent to
14 50 percent of the electric demand served in their territory,
15 inclusive of default service and electric generation supplier
16 sales. This 50 percent mandate would be in addition to the
17 existing 18 percent mandate for Tier I and Tier II renewable
18 resources. Consequently, for most of Pennsylvania, credits
19 for 68 percent of the power consumed in these utility
20 territories would be tied to alternative energy services
21 outlined in the AEPS Act.

22 The proponents of House Bill 11 argue that the
23 passage of this bill will level the playing field for nuclear
24 generators, properly value low or no carbon emissions, and
25 save jobs. The OSBA respectfully submits that House Bill 11

1 will do none of these things. Rather, if passed in its
2 current form, House Bill 11 would be an unprecedented
3 legislative mandate in favor of nuclear generation, it would
4 thwart electric competition, and it would add an additional
5 \$3 billion to the bills of 5.8 million Pennsylvania
6 consumers. And please note that that \$3 billion is not
7 inclusive of 12 to 15 million just referenced by the PUC here
8 this morning.

9 Furthermore, although Exelon asserts that
10 Three Mile Island will cease operation if this bill is not
11 passed by June 1st, House Bill 11 will not, by objective
12 analysis, do anything to save the fate of TMI. For all these
13 reasons, the OSBA cannot support this bill.

14 One of the major tenets behind the Electric
15 Generation Choice and Competition Act is that by deregulating
16 generation, generators, and their shareholders -- not
17 electric ratepayers -- will bear the risk and reap the reward
18 of the wholesale and retail competitive markets. As a
19 result, end use customers, including small businesses, would
20 be the recipients of lower electricity prices resulting in
21 more efficient, competitive, and innovative generation
22 options.

23 Since 2010 and '11, when rate caps expired for
24 most of the Commonwealth's electric utilities, combined with
25 expanded Marcellus Shale gas exploration and extraction, the

1 electric price in the Commonwealth dropped. Not only has
2 competition grown, but also PJM currently enjoys a more
3 diverse portfolio of generation resources than at any other
4 time in its history. This diversity is the organic result of
5 a changing generation mix, with a reduction of coal and
6 nuclear resources and growth in natural gas and renewables.
7 Such changes are expected as the market continues to grow and
8 evolve. This is definitive proof that competition is
9 working.

10 Picking winners and losers, as House Bill 11
11 attempts to do, will stifle competition of the wholesale and
12 retail electric markets as consumers will no longer be able
13 to freely choose either the type or price of generating
14 resources. Instead, House Bill 11 would require customers to
15 pay for a certain percentage of credits tied to House Bill 11
16 generating resources regardless of whether a consumer
17 directly utilizes that type of resource. This result is
18 great for the owners and operators of the generator named in
19 the AEPS Act, but it puts all other generating resources at
20 significant competitive disadvantage.

21 What's more troubling in the OSBA's view is
22 the cost projection and potential burdens that will be thrust
23 upon consumers if House Bill 11 passes as proposed.

24 While the proponents of House Bill 11 attempt
25 to minimize the impact of this legislation as a few dollars

1 each month, for Pennsylvania's critical small businesses, the
2 expected increases, estimated at approximately \$1300 a year
3 or more annually, will have a significant impact on both the
4 marginal costs and operation of these businesses.

5 If House Bill 11 passes in its current form,
6 small business owners may be forced to absorb these increases
7 personally, pass through these increases to customers, delay
8 pay raises for workers, or delay hiring new workers. Any of
9 these results cut into a small business' bottom line, which
10 would cause a stall or decline in small business growth
11 across the Commonwealth. Such a decline would negatively
12 impact the Commonwealth's economy.

13 In conclusion, the OSBA affirms that this
14 office does not favor one generation source over another.
15 However, to force 5.8 million customers to pay an additional
16 \$3 billion for little benefit, which essentially amounts to a
17 windfall handed to the nuclear industry, is neither just nor
18 reasonable.

19 I thank you for your time and attention today
20 and I welcome any questions or comments you may have in
21 response to this testimony.

22 MAJORITY CHAIRMAN ROAE: Thank you for your
23 testimony, as well.

24 And thank you to all the testifiers for
25 efficiently going through your testimony. We're a little bit

1 ahead of schedule, which is good, because I think it's
2 valuable for the members to have a lot of opportunity to ask
3 questions of the testifiers. So we're going to have, you
4 know, close to almost 50 minutes for questions here till we
5 have to be up to the floor for session.

6 But I'm going to start out here with the
7 questions.

8 Is that a bad thing?

9 We're going to allot one minute for the back
10 row and forty-nine minutes for the front row, I think is how
11 we're going to do it. No.

12 My question is, when you look at the
13 \$500 million price tag, the way its set up with the way that
14 we export so much electric, and when you look at how that's
15 all set up, the way House Bill 11 is set up, would PA
16 consumers pay that whole cost or would the people, the states
17 where we export electric help absorb some of that
18 approximately \$500 million cost?

19 MS. McCLOSKEY: Maybe I'll take that first.

20 Yes, the entire 500 million would be on PA
21 consumers. And again, the benefits, because we are still
22 trading energy, the energy benefits would still flow
23 out-of-state in similar proportions to what they do now.

24 I think I'd contrast that again to a carbon
25 price or a cap-and-trade where the additional carbon price or

1 cap-and-trade allowance price is placed on all energy, so
2 it's paid for by all energy throughout the PJM region. The
3 benefits then are returned to Pennsylvania.

4 MAJORITY CHAIRMAN ROAE: So the situation
5 we've had with, you know, solar and wind, where out-of-state
6 companies were getting some of the money, would out-of-state
7 companies get some of this Tier III money, as well, the way
8 House Bill 11 is written? Does PJM or PUC, anybody have any
9 insight on that?

10 MS. DUTRIEUILLE: I don't think there's a
11 limit, per se, in terms of out-of-state companies. I know
12 some of that discussion was in New Jersey. But we can get
13 you some more information.

14 PJM might be able to have more of a response
15 on that.

16 MR. BRESLER: Yeah. I'll add my understanding
17 from reading the bill itself. And my understanding is
18 similar to the chairman's opinion, where I think the
19 resources that get the credits are required to be in the PJM
20 region, but not in the state of Pennsylvania, to my
21 understanding.

22 MAJORITY CHAIRMAN ROAE: So based on what we
23 know now, the \$500 million cost would all be paid for by PA
24 residents, but that \$500 million wouldn't necessarily all
25 stay in PA. Some of that could go to nuclear plants in other

1 states.

2 MS. DUTRIEUILLE: Within the --

3 MAJORITY CHAIRMAN ROAE: Within the PJM
4 footprint.

5 MS. DUTRIEUILLE: Correct.

6 MS. LINTON-KEDDIE: And then, respectfully, I
7 would like to just add the qualifier that the only customers
8 that would be forced to pay for it are those customers of
9 electric distribution utilities, of which there are 11. As
10 you know, the rural electrics and cooperatives, their
11 customers would not be paying that.

12 MAJORITY CHAIRMAN ROAE: Okay. Well, thank
13 you so much.

14 Chairman Matzie.

15 MINORITY CHAIRMAN MATZIE: Thank you, Mr.
16 Chairman.

17 Thank you all for your testimony here.

18 First of all, for the record, I'm for closed
19 borders for all tiers because we shouldn't be paying for
20 anybody else, in my opinion. Whether it's legal or not is
21 another story. I know there's some question as to whether or
22 not our Constitution would allow for that to occur.

23 Obviously, we didn't do a carve-out for solar
24 and it has been challenging, but that's just my statement.
25 Because if the will of this general assembly is to do this

1 bill or language similar to this bill or anything related to
2 what we're discussing in House Bill 11, that needs to be part
3 of the discussion, quite frankly, in this individual member's
4 mind.

5 Anyway, a lot of discussion relative to how
6 complex this is -- and I've been saying that for the last two
7 and a half years. It's just the issue of nuclear generation,
8 as far as the Commonwealth of Pennsylvania is concerned. I
9 know everybody has kind of sort of touched on some of those
10 things and talked about a variety of things.

11 There's stuff in this bill, in its current
12 form, dealing with things that Pennsylvania normally doesn't
13 deal with. This is stuff that's normally dealt with at the
14 federal government. And we've had that discussion and that's
15 come up a couple of times during some of our hearings. So
16 that's what adds to the complexity of this legislation.

17 There's a section at the end dealing with
18 fixed resource requirement. I don't even know what that is.
19 You know, I had to look it up and try to figure out exactly
20 what it was. We had our discussion about it and I kind of
21 sort of have an idea as to what that is.

22 But in a nutshell, if FERC were to do
23 something or the feds were to do something, then Pennsylvania
24 would have to comply. And by doing this, then we would
25 comply as a result of the language being in there.

1 Well, you know, the federal government tells
2 us to do a lot of things and normally gives us an opportunity
3 to change a statute to take over. So I don't even know why
4 its in here. My opinion is the bill should be about three
5 pages if we're even going to have a bill, but again, that's
6 just opinion. Got that off my chest.

7 A lot of talk about stranded costs today, as
8 well. Section 8.2 was mentioned by a couple of testifiers
9 today. In a nutshell, the monetary effect of implementing
10 Section 8.2, could we go over that again? Can anyone give us
11 their little tidbit on Section 8.2 again? I think it's worth
12 discussing again.

13 MR. BRESLER: Yes.

14 Thank you, Chairman Matzie. This is Stu
15 Bresler.

16 So the proposal that PJM filed at FERC, as a
17 result of FERC's order on PJM capacity market, proposes this
18 resource carve-out option. So for a resource that has what
19 we term an actionable subsidy, meaning a subsidy that meets
20 the criteria that we filed, which this bill would be, the
21 base rules again would be the minimum offer price rule would
22 apply to those resources. That would present a risk for
23 those resources that that minimum offer price would be so
24 high that it wouldn't clear in a capacity auction.
25 Therefore, it wouldn't receive a capacity commitment and not

1 receive any capacity revenue, right, through the market.

2 The result of that for a state like
3 Pennsylvania, if Pennsylvania decided to still keep the
4 resource around, is that they'd have to buy capacity for
5 their load through the capacity auction, but also pay the
6 subsidy necessary to keep the resource around. It's been
7 referred to as we're paying twice for capacity.

8 So FERC required PJM, and PJM included in its
9 filing, this resource carve-out option in order to avoid that
10 risk of paying twice. So what would happen is a resource
11 that has an actionable subsidy that was concerned that its
12 minimum offer price would be so high that it would then not
13 clear in the auction could instead elect to carve itself out
14 of the auction.

15 And what PJM would do is, we would carve out
16 that resource, as well as the equivalent amount of demand.
17 So that resource would not get paid through the auction and
18 the load associated with it would not be charged through the
19 auction. But rather, the state would take responsibility for
20 compensating the resource what it needed in order to stick
21 around, and then charge the load that amount, as well.

22 PJM would only procure, then, what is
23 necessary for the rest of the load, and therefore, we would
24 eliminate again that paying twice, because only the necessary
25 amount of capacity would be procured overall.

1 The net impact of the load in the state,
2 though, is they end up paying the same thing. Because they
3 either pay the clearing price through the auction, assuming
4 the resource would clear and not get pulled out of the
5 auction, it would pay the clearing price of the auction and
6 the amount of subsidy on top, right? Whereas, if the
7 resource is carved out along with that associated amount of
8 load, all the load pays is the total amount necessary to keep
9 the resource around and doesn't pay any more for the capacity
10 through the auction.

11 So I would argue that as a result of the
12 carve-out option we included, the load in the state doesn't
13 pay any more or any less, likely, than they would otherwise
14 pay. The impact of the carve-out is that the entirety of
15 what's necessary to keep that subsidized resource around
16 stays within the borders of the state. So that --

17 If you look at sort of what happens if there's
18 a resource that clears in the auction and then gets a subsidy
19 on top of that, what it's getting paid through the auction
20 could come from anywhere in the PJM region, right? Whereas,
21 according to the carve-out, every dollar that that resource
22 needs to stick around is then allocated to the load in that
23 state that is associated with that resource.

24 And so I think that was really FERC's intent
25 of requiring the carve-out option, was to keep the impacts of

1 that subsidy within the borders of the state.

2 MINORITY CHAIRMAN MATZIE: Thank you. Thank
3 you.

4 Thank you, Mr. Chairman.

5 I'll save some questions for the end, if we
6 have some time. Thank you.

7 MAJORITY CHAIRMAN ROAE: Thank you.

8 Next is Representative Mackenzie.

9 REPRESENTATIVE MACKENZIE: Thank you, Mr.
10 Chairman.

11 And thank you to all of the panelists. I
12 thought we had great testimony today. So I appreciate your
13 insights.

14 My questions, I want to follow up on what
15 Chairman Matzie was talking about.

16 So specifically to PUC and PJM, it seems like
17 Section 8.2 is establishing like a PA specific capacity
18 payment program, it seems. And so why would we want to do
19 that, and is that something either of you requested or had
20 input on? And also, you know, how would that be different
21 than what PJM currently does?

22 MS. DUTRIEUILLE: Let me see if I can answer
23 the first part of it, in terms of how is it different.

24 It is, what you explained in terms of, it's
25 like a PA auction market, where currently it's done through

1 the PJM.

2 We were asked the question in the Senate, "Did
3 we request this language?" We did not. We didn't request
4 any specific language in either pieces of legislation in
5 either House.

6 It is different in the sense of, also, we
7 would be getting, the PUC would be getting more back into the
8 generation side, which we currently, under legislation, are
9 not part of the -- we do not have oversight over generation.
10 So it would be very different for us. And with the
11 complexity of this language and whatever intent is behind it,
12 it's not something that we can give a full and complete
13 answer to. It's something that we would definitely just have
14 to delve into and try to figure out exactly what's going on.

15 But I think PJM can offer the other side of
16 it.

17 MR. BRESLER: Well, thanks, Representative
18 Mackenzie.

19 All I'll say is PJM certainly did not request
20 anything specific in House Bill 11 by any stretch.

21 With respect to the resource carve-out option
22 that we proposed to FERC, what I would say is that PJM has
23 actually been searching for a way to accommodate these state
24 decisions in ways that preserve the wholesale market's
25 ability to, again, provide resource adequacy at the lowest

1 cost in the long-term. So in other words, to accommodate
2 these state decisions, but avoid the, sort of the price
3 distortive effects of these out-of-market payments.

4 And so we think this combination of this
5 resource carve-out option, along with another one additional
6 set of complications that we filed that allow us to come up
7 with a competitive price to that wholesale auction -- those
8 two things together would do that. They would accommodate
9 these state decisions, but again, preserve, again, the
10 efficacy, if you will, of the wholesale prices.

11 REPRESENTATIVE MACKENZIE: Okay. Great.

12 Thank you, Mr. Chairman.

13 MAJORITY CHAIRMAN ROAE: Next is
14 Representative Neilson.

15 REPRESENTATIVE NEILSON: With no timer, right,
16 Chairman?

17 Thank you all for your testimony here today.
18 Just a couple of quick questions because I was getting ready
19 for that normal format.

20 Ms. Brown, you testified today some of the
21 effects that will happen, and I want to get a little more
22 into it.

23 If, like, Beaver Valley closes, in your
24 testimony, you told us that there's a \$180 million investment
25 needed. Who pays for that \$180 million?

1 MS. DUTRIEUILLE: I believe my testimony
2 talked about if Beaver Valley would close, there would
3 probably be some need for remission --

4 REPRESENTATIVE NEILSON: Upgrades to our
5 transmission.

6 MS. DUTRIEUILLE: -- to the transmission.

7 REPRESENTATIVE NEILSON: Yeah. So we're going
8 to have to do some infrastructure improvements, approximately
9 \$180 million. Who pays for that price tag?

10 MS. DUTRIEUILLE: Ultimately, that would be
11 the ratepayer.

12 REPRESENTATIVE NEILSON: So the consumers
13 would also pay for that, as well?

14 MS. DUTRIEUILLE: Correct.

15 REPRESENTATIVE NEILSON: And this is something
16 that we've seen across the country, the nuclear energy and
17 the subsidies needed to keep them going. And with your
18 colleagues or anything, have you seen like -- what have you,
19 your expertise, seen other people doing? I mean, if we do
20 nothing, where are we? What happens?

21 I mean, I know we just got a \$180 million
22 buildup. We just -- that was the last question. But where
23 does it stop?

24 We saw in your testimony, I believe it says
25 energy prices will go up in addition to that \$180 million

1 bill we're going to have to pay. How about, what comparison,
2 your expertise -- I don't want to put you on the spot of what
3 we should be doing, but we know we have to do something here.
4 And it's the what we have to do.

5 MS. DUTRIEUILLE: That is the part where the
6 commission would work with the general assembly to figure out
7 the what of what they want to do.

8 But what we were noticing from other states
9 around us -- Illinois, New York, New Jersey -- they, of
10 course, have been discussing this issue in terms of some type
11 of subsidy for nuclear energy and have passed legislation.
12 And I know that Ohio is also going through the process, the
13 legislative process of this, as well.

14 And it really is individually what each state
15 needs in what they're discussing. And that's why we keep
16 saying, whenever I come before any of the committees, that we
17 should take part in the discussion, we should be part of it,
18 but we should not give the entire answer because I don't
19 think that we're able to do that.

20 We, from the '96 legislation, do not have
21 jurisdiction or oversight over generation. So as I laid out
22 in my testimony and as we have said time and time again, it's
23 not appropriate for us to talk about different issues that
24 don't come under our purview. But we can give you the
25 information that we do have and serve as that resource and

1 will continue to do that.

2 I don't know if that answers your question.

3 That was a long one.

4 REPRESENTATIVE NEILSON: No, it does because I
5 understand the department and I understand what the PUC does.
6 And a lot of people don't, but I just wanted to make sure
7 they do. And today being a public hearing, I wanted to make
8 sure they heard it from you.

9 Thank you, Chairman.

10 MAJORITY CHAIRMAN ROAE: All right. Thank
11 you.

12 Next is Representative Nelson.

13 REPRESENTATIVE NELSON: Thank you, Mr.
14 Chairman.

15 And thank you for your testimony.

16 My initial question is for Chairman
17 Dutrieuille.

18 From the PUC side, in your testimony, there
19 were two parts to it. The first, it seemed that the PUC
20 maybe had a little bit higher cost impact on Pennsylvania and
21 consumers, like going from that \$1.50 to \$6. Maybe that's a
22 pretty big range, because it would make sense, some residents
23 might use more natural gas than others, going to the OSBA,
24 about 5.8 million customers. Can you quantify the average
25 cost? I think in HB 11, they were thinking like

1 500 kilowatts that a family may use. Is there a much bigger
2 residential range or is that -- and it's okay if that's too
3 detailed of a --

4 MS. DUTRIEUILLE: No. I think it was in my
5 testimony and that's why I'm looking for it while you were
6 talking.

7 I think the range went from a 500-kilowatt
8 household to maybe 2,000. So that was the range that I gave
9 in my testimony.

10 REPRESENTATIVE NELSON: Okay. So that 500,
11 that's the floor of the estimate, then?

12 MS. DUTRIEUILLE: Just to give examples, yes.

13 REPRESENTATIVE NELSON: Okay. That's
14 extremely helpful, then, because in getting feedback from
15 some of our local businesses on the cost impact, it seemed to
16 be much higher than that initial reading.

17 And if I was understanding the last part of
18 it, when you cited the Penn State study, because new
19 nuclear -- or because natural gas facilities are pending to
20 be installed and have been installed, you're anticipating, if
21 there were some new closures, that Pennsylvania electrical
22 rates would actually decrease because of the replacement with
23 natural gas?

24 MS. DUTRIEUILLE: We are not anticipating. We
25 are --

1 REPRESENTATIVE NELSON: But the study --
2 sorry.

3 MS. DUTRIEUILLE: Correct, we are citing the
4 Penn State study.

5 So it gave -- if there's no replacement, if
6 TMI and Beaver Valley were to close and they gave no
7 replacement of that generation, you would see the increase in
8 cost. But if they were replaced by natural gas generators,
9 which has been the practice over the last several years,
10 because of the fact of Marcellus Shale here in this state,
11 you would see a decrease in the cost.

12 But that was from that study.

13 REPRESENTATIVE NELSON: Okay. Yeah, that was
14 somewhat complicated. So thank you very much. I appreciate
15 it.

16 Thank you, Mr. Chairman.

17 MAJORITY CHAIRMAN ROAE: The members are doing
18 really well today keeping questions brief. So I think that's
19 great. We'll actually have some time for a second round
20 probably today.

21 Next is Representative Schweyer.

22 REPRESENTATIVE SCHWEYER: You spoke too soon.

23 Thank you, Mr. Chairman.

24 Chairman Dutrieuille, hello.

25 I want to follow up on Representative Nelson's

1 question about the Penn State study. First, did you
2 commission that study? I'm just kind of curious.

3 MS. DUTRIEUILLE: I don't believe we
4 commissioned it.

5 REPRESENTATIVE SCHWEYER: I'm not sure who
6 did, so -- okay. I was just going to --

7 MS. DUTRIEUILLE: I mean, I can find out, but
8 I believe that we --

9 REPRESENTATIVE SCHWEYER: That was just sort
10 of a random -- I'm kind of curious who requested it. I mean,
11 I'm as neutral of a party in this entire thing as possible.
12 So I was just kind of curious.

13 In that specific study, going back to what
14 Representative Nelson was asking, there was the -- and we
15 understand that if there's less capacity being generated, to
16 replace that with natural gas may lead to a price decrease,
17 nine to twenty-four percent. I'm wondering if that's
18 factoring in the perspective of the completion of the Mariner
19 East pipeline.

20 MS. DUTRIEUILLE: I do not know that. I
21 could -- we could try to find out more information for you,
22 but I do not have that answer.

23 REPRESENTATIVE SCHWEYER: Simply just getting
24 a copy of the study might be helpful. Because I think one of
25 the things we keep hearing from our, from the folks in the

1 estimates are, but similar to the administrative costs that
2 the PUC has. I mean, there would most certainly be
3 administrative costs tied to EDC responsibilities under this
4 fact. If you decide to single line item the cost associated
5 with this provision rather than lump it in with the
6 distribution charge, there would be IT costs, there would be
7 bill costs, things like that.

8 But I mean, because I no longer work for an
9 electrical distribution company, I cannot, beyond
10 generalizations, answer your question with specificity.

11 REPRESENTATIVE SCHWEYER: That's fair.

12 MS. DUTRIEUILLE: I think I would have to
13 chime in, as well.

14 In terms of generalizations, we have not come
15 out with any, you know, specific information that would, say,
16 impact on one EDC versus the other. And because they're all
17 different --

18 REPRESENTATIVE SCHWEYER: Sure.

19 MS. DUTRIEUILLE: -- it's going to come out
20 differently, as well.

21 REPRESENTATIVE SCHWEYER: Sure.

22 MS. DUTRIEUILLE: So I think the Energy
23 Association would be the one to forward that question to.

24 REPRESENTATIVE SCHWEYER: That's fair.

25 And, Mr. Chairman, with your permission, one

1 last follow-up, and I won't ask for a second round.

2 Ms. McCloskey, in your testimony about the
3 floor and ceiling with the 500 versus 2,000 lot in the
4 households, does that include any potential decrease in cost
5 that would be passed on to the customer by the EDCs?

6 MS. McCLOSKEY: No, it does not.

7 REPRESENTATIVE SCHWEYER: That's just the rate
8 of --

9 MS. McCLOSKEY: It doesn't include the
10 additional cost that the commission would incur. It's just
11 from the Tier III price.

12 REPRESENTATIVE SCHWEYER: Okay. So there's a
13 possibility and a likelihood that that number would increase.
14 Now, whether it's a few cents or a few dollars, we have no
15 idea. We'd assume the lower end of that, but still, there
16 would be an additional cost passed forward.

17 MS. McCLOSKEY: That's correct.

18 REPRESENTATIVE SCHWEYER: Okay. Thank you
19 very much.

20 Thank you, Mr. Chairman.

21 MAJORITY CHAIRMAN ROAE: All right. Next is
22 Representative Mehaffie.

23 REPRESENTATIVE MEHAFFIE: Thank you, Mr.
24 Chairman.

25 My question is for Ms. McCloskey.

1 We've had a -- sorry, I moved. I had to step
2 out for a minute.

3 The question I have is -- and this goes back
4 to Representative Neilson's question -- because it seems to
5 me through this hearing that we're having, cost runs and
6 180 million and other things -- I asked this question at the
7 last hearing when it came down to the large energy producers.
8 There is a study out by Brattle Group, if doing nothing
9 happens, the cost of that. Have you taken that into, or done
10 a study if the nuclear power plants go out of business and,
11 you know, the price of gas goes up and we go through these
12 costs, do you feel there's going to be a larger cost and has
13 any study been done by your group?

14 MS. McCLOSKEY: I've taken a look at the
15 Brattle Group study, and I do have concerns with the
16 assumptions. And in fact, PJM could probably speak better to
17 that with the Brattle Group.

18 We have not done an independent study of what
19 the impact would be on the PJM markets upon plant closure.
20 But again, PJM has the facilities to run their own
21 simulations and production cost models, and could -- based on
22 the requirements and the sequence that they see -- could
23 probably provide that information.

24 REPRESENTATIVE MEHAFFIE: So --

25 MS. McCLOSKEY: But again, I do think the Penn

1 State study was more in the neighborhood of giving us some
2 boundaries based on the more realistic assumptions as the
3 operations of the PJM markets.

4 REPRESENTATIVE MEHAFFIE: Right. And when I
5 spoke to the maker of the Penn State study, he said that was
6 in a perfect world. So if nothing happens and if there's no
7 major catastrophes and we don't have any weather, polar
8 vortexes, or whatever, that's where that came into play. So
9 I do understand that.

10 But at the same time, you know, we already
11 heard, and the representative said, there's \$180 million in
12 cost, that if these plants go out of business, they're going
13 to have these costs that are going to fall back on the
14 ratepayer anyway. At the same time, you know, the Penn State
15 study, it says that's if gas remains at the cost it is today.
16 If that price of gas goes up \$1 per MCF or whatever may
17 happen, you have to agree with me that the price of
18 electricity is going to go up a lot higher than what we're
19 estimating right now, correct?

20 MS. McCLOSKEY: Well, I don't think I can
21 agree with that, because that somewhat assumes all else
22 equal. And again, I think PJM could probably run this more
23 precisely.

24 But as gas prices would increase in the PJM
25 markets, the wholesale markets would respond. They would not

1 stay exactly as they are today. Energy efficiency would
2 increase, demand response would increase, different types of
3 resources would come on. And those are the type of
4 simulations they have.

5 But the point is that the competitive markets
6 will respond to any increase or changes in fuel prices to
7 start to produce the most cost-effective, in the least cost
8 way of dispatching the system in a reliable manner. So I
9 think we'd have to ask PJM to run that simulation to get us
10 the right numbers.

11 REPRESENTATIVE MEHAFFIE: Okay.

12 Thank you, Mr. Chairman.

13 MAJORITY CHAIRMAN ROAE: All right. We're
14 going to start round number two.

15 Thank you, again, to the members for keeping
16 your questions brief.

17 My question is, when you go to that PA Power
18 Switch, you know, website or whatever it's called, where
19 consumers can pick -- you know, they want to get all solar
20 panel electric or, you know, whatever, is there an ability to
21 have a nuclear option only on there? Does state law allow
22 that? Because I didn't see that on there as an option for
23 people to pick.

24 MINORITY CHAIRMAN MATZIE: Nuclear energy.

25 MS. DUTRIEUILLE: Our PApowerswitch.com

1 website --

2 MAJORITY CHAIRMAN ROAE: Yes.

3 MS. DUTRIEUILLE: -- is a website that
4 provides a platform for electric generation suppliers to lay
5 out the different plans that they have. Now, there are
6 certain plans that EGSs may offer to say it's all renewable
7 energy. And renewable is the general term that they use.

8 I would always say that, as things evolve,
9 that's something that we would have to look at, if the
10 general assembly would decide to pass something.

11 But even with the emphasis of renewable
12 energy, what we say to consumers is that it all goes into one
13 pot. So they're picking a plan that says that it's a
14 renewable plan, but it doesn't mean that the electrons that
15 go into your house are all from renewable energy. So we
16 emphasize that part.

17 MAJORITY CHAIRMAN ROAE: Now, people that pick
18 a plan that is renewable, does that tend to be competitive or
19 is it a little bit more expensive or a little cheaper or
20 what, compared to, you know, other options?

21 MS. DUTRIEUILLE: We've seen different things
22 over the years where it did start out as usually a renewable
23 plan was a little bit higher, but it was the desire of the
24 consumer to pick something like that. So it just depends,
25 once again, on the EGSs and the plans that they're able to

1 offer at a particular time.

2 MAJORITY CHAIRMAN ROAE: Would the nuclear
3 power option only probably be more expensive?

4 MS. DUTRIEUILLE: I have no idea.

5 MAJORITY CHAIRMAN ROAE: Okay.

6 And then the second part of my question, which
7 isn't really that related, is back when the AEPS law was
8 passed, the, you know, electric co-ops were exempted. I
9 wasn't here then, so I don't know what happened there
10 exactly. But apparently, they did not want to be included in
11 that. And now they're supporting, you know, House Bill 11.
12 They seem to be concerned with carbon dioxide emissions now.

13 I was wondering, if -- just for the sake of
14 argument -- if we brought the electric co-ops into the AEPS
15 Tier I and Tier II, would that cause any problems with, you
16 know, the PUC or with, you know, PJM or anybody? Because I
17 realize they're not really regulated by the PUC like the
18 other companies are. But would it have any appreciable
19 reduction in pollution and would it create any kind of
20 difficult, you know, administrative duties if we brought them
21 into AEPS?

22 MS. DUTRIEUILLE: Generally, that's an
23 interesting question. The general response is that it's
24 difficult to have jurisdiction over someone you don't have
25 jurisdiction over.

1 So it would be my personal opinion -- we'd
2 need to see how you're drafting the language -- but I think
3 it would be problematic in some sense. It's just difficult
4 to answer that question when we don't currently have
5 jurisdiction over co-ops. And I don't know that co-ops would
6 want us to have jurisdiction over them.

7 MAJORITY CHAIRMAN ROAE: Okay. Well, thank
8 you so much.

9 Next we have Chairman Matzie.

10 MINORITY CHAIRMAN MATZIE: Thank you. Thank
11 you, Mr. Chairman. Thank you, again.

12 For both the DEP and PUC, what roles would you
13 play if, in fact, we had a decommissioning of a nuclear plant
14 in Pennsylvania, that you're aware of?

15 MS. DUTRIEUILLE: That I'm aware of? You
16 know, that's a difficult question, because most of it would
17 come through the Nuclear Regulatory Commission and all that,
18 but we can get back to you on that.

19 MINORITY CHAIRMAN MATZIE: Okay.

20 MR. ALTHOFF: Yeah, same answer.

21 We have a Bureau of Radiation Protection that
22 does all of the inspections and involvement with the NRC
23 relative to our nuclear assets in Pennsylvania. So we have a
24 bureau that's in charge of that. It's not a part of my
25 office.

1 MAJORITY CHAIRMAN ROAE: That kind of goes
2 back to what my statement earlier was. A lot of this stuff
3 that we're dealing with isn't normally dealt with in the
4 state Houses. It's dealt with in Washington, D.C.

5 For the Consumer Advocate, in looking at what
6 other states have done to this point, has there been any
7 implementation in any of the other states in regards to
8 assisting or aiding those in the low-income territory? I
9 know you mentioned that in your testimony about, using some
10 percentages as to who may or may not be affected by House
11 Bill 11 if passed in its current form.

12 But is there an increase -- like LIHEAP, has
13 LIHEAP been raised in some of these other states or other
14 programs?

15 MS. McCLOSKEY: As far as I know, there's been
16 no direct, no direct support for low-income customers as part
17 of any of the other bills.

18 The other bills that have been passed, though,
19 have supported things such as energy efficiency programs,
20 further energy efficiency programs, that often can be used to
21 serve low-income households and help them to reduce their
22 bills. So they have been partnered with support of other
23 types of renewable energy efficiency demand responses.

24 But I'm not aware of whether or not they have
25 a specific low-income carve-out.

1 MAJORITY CHAIRMAN ROAE: Same thing for the
2 Small Business Advocate. Anything for small businesses to
3 maybe take advantage of, a different type of program for
4 individual businesses, that you're aware of?

5 MS. LINTON-KEDDIE: Nothing specifically comes
6 to mind.

7 You know, to piggyback on what Tanya was
8 saying, I mean, my understanding of AEPS is that it would not
9 impact the currently available universal programs that all of
10 the electric distribution companies have. You know,
11 sometimes there are specific grants that a small business
12 could get, but I mean, the amounts are expanded a little bit
13 more.

14 But I mean, I do want to say, just as a
15 reminder, electric distribution company customers -- again,
16 those 5.8 million -- already pay \$244 million annually for
17 energy efficiency and conservation. So I mean, if we're
18 going to delve into that and open that up, I think that's
19 going to be a whole host of other conversations we should be
20 having.

21 MINORITY CHAIRMAN MATZIE: Sure. I think it
22 was worth asking the question.

23 And then my last question, which is the basic
24 question -- and I know everyone has given their opinion of
25 whether they're for, against, or neutral on this bill in all

1 the hearings that we've had. And I've asked this question
2 privately to a lot of people, as well. What's the cost to
3 consumers if nothing happens, if we do nothing? Are prices
4 going to go up? Are they going to stay the same?

5 I mean, I know we've had sort of similar
6 answers to questions asked like that, but I think it's just a
7 pretty basic question.

8 MS. LINTON-KEDDIE: I'm going to go out on a
9 ledge. And you know, I've been thinking about this since
10 last Monday, when a lot of the questions were asked
11 particularly about, you know, we can't predict the future of
12 nuclear, we can't predict the future of gas prices. But I
13 mean, the only thing I know with certainty, Representative,
14 is that if you pass this bill, it's going to cost consumers
15 \$3 billion. I do know that.

16 MINORITY CHAIRMAN MATZIE: That's fair.

17 MS. McCLOSKEY: I agree with OSBA.

18 I would say that we do know that energy prices
19 are going to go up because PJM already has some initiatives
20 in place that are raising our energy prices, which again will
21 flow to the benefit of the nuclear units. I think PJM is
22 probably best positioned to analyze for us what would happen
23 if TMI closed.

24 MINORITY CHAIRMAN MATZIE: Sure.

25 MR. ALTHOFF: I'm going to take it from a

1 little bit of a different perspective and say that, you know,
2 our nuclear generation fleet in Pennsylvania is a zero carbon
3 emitting generating source. And losing a portion of that
4 will cause the market to react and backfill.

5 Depending upon what we would like to see from
6 an environment attribute standpoint depends on the policy
7 choices that we make at this point in time. So what we do
8 know is that closing of a nuclear asset will, in fact, reduce
9 our progress towards meeting our climate change goals.

10 And so these policy decisions related to the
11 attributes of energy generation and what we would like to
12 have is that the future relative to the environmental
13 benefits we get from those generations sources are certainly
14 a part of this discussion.

15 MS. DUTRIEUILLE: I think the way I would
16 answer the question is really piggybacking on some of the
17 things that Tanya had mentioned about -- and I think I've
18 mentioned also in my testimony that this issue is so complex.
19 And I've tried to -- in the testimony, we as a commission,
20 tried to delve in a little bit in terms of, if certain plants
21 would close -- we mentioned TMI and Beaver Valley, which I
22 know is in your district -- and if there were no replacement,
23 we gave some of those figures.

24 In terms of trying to address if all nuclear
25 plants would close, which I've heard from previous testimony

1 and others, for us as a commission, that's just too hard to
2 try to delve into. It's something that we would look to PJM
3 to try to give us more information about.

4 MR. BRESLER: Yeah. Thanks.

5 Let me just start out by reiterating that PJM
6 is neither a proponent nor an opponent of this bill or any
7 other bill in front of this committee or this general
8 assembly. But I'll say a couple of things.

9 Like I said, Pennsylvania has chosen to
10 embrace competitive markets. And I think the track record of
11 competitive markets is that they have worked to ensure
12 liability at low costs over time.

13 It seems to me contrary to the whole notion of
14 competitive markets that it would end up reducing or
15 minimizing the price outcomes to provide an otherwise
16 uncompetitive resource and out-of-market subsidy in order to
17 remain in the market. What I think you look for from
18 competitive markets is that competition drives entry and exit
19 decisions, and therefore, results in, again, the lowest cost
20 and the lowest cost mix and resources in the long-term.

21 I think some of the competitiveness --
22 competitiveness is the wrong word. But some of the
23 shortcomings, if you will, of some of the studies that have
24 been done in the past is they tend to isolate only one aspect
25 of the overall market results, that typically being the

1 energy market. And it shouldn't surprise anybody that all
2 other things being equal, if you take an uneconomic resource
3 that is injecting energy almost around the clock and you
4 remove those injections, that the energy price in and of
5 itself would go up. That's common sense, right?

6 But again, I think when you try to step back
7 and look at the big picture, again, that's only one piece of
8 the overall economics that we're talking about here. So
9 again, it's like I said, contrary to the whole notion of
10 these competitive markets that are subsidizing resources that
11 would otherwise exit the market to keep them around would
12 wind up somehow being cheaper in the long run.

13 I'll stop there, but just some thoughts,
14 again, for your consideration.

15 Again, from PJM's perspective, what we've been
16 trying to come up with is a way that we can accommodate these
17 decisions should they be made and still let the wholesale
18 markets continue to function as they have been.

19 MINORITY CHAIRMAN MATZIE: Well, I think the
20 word of the day, and if I was a copy editor of a newspaper
21 and I was writing a headline for today's hearing, the
22 headline would be "complex," because I really think that's
23 something that has continually come up in all of the hearings
24 we've had. You know, those in favor of House Bill 11 have
25 had to prove that nuclear generation in Pennsylvania is, in

1 fact, in dire straits, and without a policy change in state
2 government, plants will close. And that was part of the
3 reason we had these hearings.

4 And when we started the bipartisan, bicameral
5 nuclear caucus a couple of years ago, two and a half years
6 ago, efforts were to provide education about the nuclear
7 industry in Pennsylvania and really give us that information
8 for everybody to consider, as a fact, that would decide to do
9 something from a policy perspective.

10 The goal in my judgment was to preserve jobs,
11 impress upon, not only policymakers, but the public, that
12 nuclear energy was clean and that in order to have a
13 diversified energy portfolio, nuclear generation needs to
14 remain in Pennsylvania.

15 I've said many times in public and private
16 that it was important for us to have a dialogue regarding
17 nuclear energy generation in Pennsylvania in these four
18 hearings. And I thank you again, Mr. Chairman, for having
19 these four hearings. We held the informational hearings also
20 that we had and individual discussions proved it to be very
21 important and crucial for us as policymakers to make an
22 informed decision.

23 Furthermore, I have also raised the point
24 about how Pennsylvania is different than other states that
25 have entered into policy to the benefit of nuclear energy.

1 We have a diversified energy generation portfolio. We export
2 24 percent of all energy that is generated in Pennsylvania.
3 We heard from experts that said if one plant or two plants
4 would go offline, Pennsylvania would still be able to provide
5 more than 100 percent of its needs and still be an exporter
6 of energy. Again, important stuff that we heard.

7 Whether or not we decide to run this bill,
8 whether or not we decide to, you know, entertain an amendment
9 to this bill remains to be seen. And, you know, I'm a
10 minority chairman. That's your corner, Mr. Majority
11 Chairman, and obviously to the majority party. But I'm just
12 thankful again publicly.

13 Mr. Chairman, I wanted to thank you for doing
14 this. I think it was important. Very complex, and I've said
15 it many, many times before, that I'm from an all energy area.
16 I've got it all in southwestern Pennsylvania, so this is a
17 very difficult decision from a policy perspective because, as
18 the chairman said earlier, we have to consider everything --
19 jobs, economy, what it does to our communities, et cetera, et
20 cetera, as well as energy prices.

21 So again, I thank you, Mr. Chairman.

22 MAJORITY CHAIRMAN ROAE: Thank you. And we're
23 going to sneak in a couple more here. Real quickly,
24 Representative Nelson.

25 REPRESENTATIVE NELSON: Thank you, Mr.

1 Chairman.

2 My question initially was -- I'm following up
3 from a PCN interview they had. And you know, we represent
4 Pennsylvanians and we had a caller kind of remind us that
5 plutonium is also traded, I guess, on the global market. And
6 in a scenario where we would mandate that 50 percent of our
7 energy purchased through NUCs -- if plutonium prices went up,
8 what would happen in that regard to Pennsylvania's power?

9 MR. BRESLER: I have to admit I am not an
10 expert on plutonium prices and the relative cost of plutonium
11 compared to other fuels. Hypothetically, right? It's just
12 like the question you were asked before, if natural gas
13 prices go up, what would happen? Well, one of the benefits
14 of competitive markets is they very quickly and transparently
15 show the movement of the underlying fuel costs, right?

16 So I guess, hypothetically, plutonium prices
17 could increase to the point where those resources would no
18 longer be marginal, like they are today. In other words,
19 their costs would go so far below the typical marginal cost
20 of energy, in which case they would no longer be in the
21 dispatch stack where they are today. And they would become
22 more the marginal resource, I guess. That seems like it
23 would be unlikely.

24 So from a wholesale market price, I can't
25 imagine it making really any difference. However, it would

1 certainly increase the cost of operation of these facilities,
2 in which case, I would think that the amount the subsidy
3 necessary to keep an uneconomic resource around would go up,
4 if their fuel costs went up.

5 I guess that's about all I can say about it.

6 REPRESENTATIVE NELSON: Yes. And then the --

7 MAJORITY CHAIRMAN ROAE: Thank you,
8 Representative Nelson.

9 REPRESENTATIVE NELSON: Thank you.

10 Thank you, Mr. Chairman.

11 MAJORITY CHAIRMAN ROAE: Representative
12 Neilson.

13 REPRESENTATIVE NEILSON: Thank you, Chairman.

14 And I just want to echo, no real question,
15 Chairman Matzie's appreciation for having these hearings.
16 And "complicated" is definitely the word.

17 We're talking about tens of thousands of jobs,
18 consumers, and how our environment is protected, as well,
19 going into the future. And I just wanted to thank you for
20 having these hearings and look forward to the further
21 discussion so we can get a good bill.

22 And people ask me sometimes what a good bill
23 is. A good bill is when you have four interested parties,
24 five interested parties, at the table like we have here today
25 testifying before us. And when we get a final piece of

1 legislation, you're all walking outside with a frown on your
2 face. To me, that's a good bill.

3 So I look forward to working with the other
4 members of the committee and both chairmen to making a bill,
5 piece of legislation, that makes sense for Pennsylvania to
6 move forward.

7 Thank you again, Chairman.

8 MAJORITY CHAIRMAN ROAE: And we have
9 Representative Mackenzie.

10 REPRESENTATIVE MACKENZIE: Thank you, Mr.
11 Chairman.

12 I just want to ask another clarifying
13 question. This one of the Consumer Advocate.

14 So it was page 9 of your testimony. You had a
15 list a key principles and projections that you would include.
16 Just specifically, if you can hit on, it looks like bullet
17 point number four is about true-up reconciliation or
18 reconciliation, five is about a cap or a limitation, and then
19 the final bullet point about a sunset provision. If you can
20 just specifically expand on those and how you would see those
21 working in practice.

22 MS. McCLOSKEY: Sure.

23 Just quickly, the term of a true-up
24 reconciliation mechanism, we're looking at today's market
25 prices. And in fact, when this discussion began in 2016,

1 energy prices had increased by 30 percent, and as I
2 mentioned, they're going to go up again based on PJM
3 initiative. So the amount of subsidy that we're looking at
4 today may not be necessary into the future.

5 We already know that all of the other plants
6 are profitable. So I think you always have to keep in mind
7 if we award a subsidy of any kind, that it should be covering
8 a gap and you have to know throughout time what that gap is
9 and make sure that you're only providing a subsidy needed for
10 that gap.

11 In terms of a cap or limitation on monthly
12 bill impact, for example, Illinois has a 1.65 percent cap on
13 the monthly bill. So the subsidy cannot increase a
14 customer's bill, any customer's bill, by more than 1.65
15 percent.

16 And then on a more definitive sunset
17 provision, the bill is unending. It could go on indefinitely
18 for 20 or 30 years. So it doesn't have a sunset provision or
19 an opportunity to come back and take a second look at whether
20 or not these subsidies are needed or make any sense in the
21 evolving PJM markets.

22 REPRESENTATIVE MACKENZIE: And you mentioned
23 other states in your last example there. So in sunset
24 provisions, have other states that have taken this up, have
25 they included sunset provisions?

1 MS. McCLOSKEY: Other states have shorter
2 terms. New Jersey has a three-year term, then it's looked at
3 again, in terms of there's another filing to look at the
4 need. And I believe Illinois has a provision, a term
5 provision, but I don't have it, exactly what it is.

6 REPRESENTATIVE MACKENZIE: Okay. Great.
7 Thank you.

8 MAJORITY CHAIRMAN ROAE: All right. I guess
9 I'm last here.

10 But I wanted to thank all the testifiers for
11 testifying today, and all the testifiers and committee
12 members who participated, you know, over all four of the
13 hearings.

14 I would encourage all the committee members to
15 continue to, you know, reach out to all the testifiers from
16 all the hearings if you want clarification on anything.

17 You know, as we look ahead, as most people
18 know, most major pieces of legislation that we deal with
19 involve being amended along the way. Sometimes it means
20 significant amendments, sometimes little tweaks. Sometimes a
21 bill might be completely, you know -- basically start over
22 and take that approach. It's been interesting.

23 And I agree with the Democratic Chair that
24 this is very complex. I've said that a million times, but
25 it's true.

1 And one thing that is kind of disappointing
2 from all these hearings is it seems like, based on several
3 people that have testified, is that even if we did do this,
4 it doesn't seem like Three Mile Island is economically
5 viable. And if we did this, it would close; if we don't do
6 this, it would close. So maybe we have to take a bigger look
7 and look at, you know, overall, kind of balance the pollution
8 aspect of things with our economic, you know, points of view
9 we have to consider to make sure that we maintain that
10 cost-effective, you know, electricity mix that we have in
11 Pennsylvania.

12 We want to be good for our economy. A lot of
13 employers, they like the low price of Pennsylvania's
14 electricity, and we have to make sure we don't mess that up.
15 But we also have to balance that with making sure that we
16 continue to have good air quality in Pennsylvania.

17 So, again, this is a very, very complex, very
18 technical issue. And I'd like to thank everybody again.

19 And it's getting close to time here. It's
20 12:57, so I'm going to close this hearing out so members can
21 get to the floor.

22 Thank you.

23 (The hearing concluded at 12:57 p.m.)

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

I hereby certify that the proceedings are contained fully and accurately in the notes taken by me on the within proceedings, and that this copy is a correct transcript of the same.

Summer A. Miller, Court Reporter
Notary Public