

SENATE COMMITTEE SUBSTITUTE FOR  
**SENATE, No. 877**

**STATE OF NEW JERSEY**  
**218th LEGISLATURE**

ADOPTED FEBRUARY 22, 2018

**Sponsored by:**

**Senator STEPHEN M. SWEENEY**

**District 3 (Cumberland, Gloucester and Salem)**

**Senator BOB SMITH**

**District 17 (Middlesex and Somerset)**

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**District 1 (Atlantic, Cape May and Cumberland)**

**SYNOPSIS**

Establishes and modifies clean energy and energy efficiency programs; establishes zero emission certificate program; modifies State's solar renewable energy portfolio standards.

**CURRENT VERSION OF TEXT**

Substitute as adopted by the Senate Budget and Appropriations Committee.



1 AN ACT concerning energy, and amending and supplementing  
2 various parts of the statutory law.

3

4 **BE IT ENACTED** by the Senate and General Assembly of the State  
5 of New Jersey:

6

7 1. (New section) a. The Legislature finds and declares that:

8 (1) Climate change is one of the greatest threats facing the State  
9 today and in the future. Reducing emissions of carbon dioxide,  
10 other greenhouse gases, and other pollutants by preserving and  
11 expanding zero-emission electricity generation within and outside  
12 the State is critical to mitigating the impacts of climate change.

13 (2) Reducing emissions of carbon dioxide, other greenhouse  
14 gases, and other pollutants by preserving and expanding zero-  
15 emission electricity generation within and outside the State is  
16 critical to mitigating the impacts of climate change.

17 (3) Nuclear power is a reliable, zero-emission source of energy  
18 that has supplied New Jersey's energy demands for decades.

19 (4) New Jersey has historically relied on a diverse mix of energy  
20 supply sources, including nuclear power, to meet the needs of its  
21 residents and businesses.

22 (5) Reducing emissions of carbon dioxide, other greenhouse  
23 gases, and other pollutants, and preserving and developing zero-  
24 emission electricity generation sources within and outside the State  
25 that currently provide electricity to customers in New Jersey, are  
26 critical to improving air quality for New Jersey residents.

27 (6) The Energy Master Plan of New Jersey, last updated in 2015,  
28 requires significant revisions to ensure that 100 percent of the  
29 State's electric energy needs are generated by clean energy sources  
30 by 2050, and any update to the Energy Master Plan by the State  
31 must include a focus on the expansion of renewable and zero-  
32 emission sources of energy.

33 (7) The existing renewable energy portfolio standard has been  
34 successful in promoting the growth of renewable energy generation  
35 to reduce air pollution in New Jersey; however, to achieve its near  
36 term environmental goals, New Jersey must expand its commitment  
37 to zero-emission energy generation and value the environmental  
38 attributes of zero-emission generation sources that currently fall  
39 outside the scope of the existing renewable energy portfolio  
40 standard, including but not limited to nuclear power.

41 (8) Nuclear power generation is a critical component of the  
42 State's clean energy portfolio because nuclear power plants do not  
43 emit carbon dioxide, other greenhouse gases, and other pollutants;  
44 in addition, nuclear power is an important element of a diverse

**EXPLANATION – Matter enclosed in bold-faced brackets [thus] in the above bill is not enacted and is intended to be omitted in the law.**

**Matter underlined thus is new matter.**

1 energy generation portfolio that currently meets approximately 40  
2 percent of New Jersey's electric power needs.

3 (9) Several of the existing, licensed, and operating nuclear power  
4 plants within and outside the State that currently provide electricity  
5 to customers in New Jersey are at risk of abrupt retirement due to a  
6 variety of factors.

7 (10) The retirement of nuclear power generation will inevitably  
8 result in an immediate increase in air emissions within New Jersey  
9 due to increased reliance on natural gas-fired generation and coal-  
10 fired generation.

11 (11) Poor air quality has a disproportionate impact on the most  
12 vulnerable citizens of New Jersey including children, the elderly,  
13 and people living in poverty. Fossil-fuel power plants drive  
14 increases in pollutants like ground-level ozone, which aggravates  
15 respiratory illnesses for individuals with decreased lung function.  
16 Public health and environmental justice necessitate a reduction in  
17 these pollutants to protect the most vulnerable of our citizenry.

18 (12) As a coastal state, New Jersey is particularly exposed to  
19 many of the effects of global climate change, such as rising sea  
20 levels and more extreme storms. Many of New Jersey's most  
21 important commercial and tourism assets are located in coastal  
22 areas, and events like Superstorm Sandy have demonstrated the  
23 imminent and tangible threats that intense storms pose to New  
24 Jersey's economy and environment.

25 (13) Given the overwhelming scientific consensus that fossil fuel  
26 use is causing potentially irreversible global climate change and the  
27 attendant environmental catastrophes, it is a moral imperative that  
28 the State invest in energy infrastructure within and outside the State  
29 that does not produce greenhouse gases.

30 b. The Legislature therefore determines that:

31 (1) The abrupt retirement of existing, licensed, and operating  
32 nuclear power plants within and outside the State that provide  
33 electricity to customers in New Jersey, and any concomitant  
34 increase in the proportion of New Jersey's electricity demand met  
35 by natural gas and coal, will result in a substantial increase in  
36 emissions of several serious pollutants, and associated adverse  
37 public health and environmental impacts. The pollutants resulting  
38 from increased fossil-fuel generation and drilling include emissions  
39 of carbon dioxide, methane, carbon monoxide, sulfur dioxide,  
40 particulate matter, volatile organic compounds, mercury, and  
41 nitrous oxides, and the creation of ozone.

42 (2) New Jersey is currently not projected to meet certain federal  
43 and State air quality standards and emissions level requirements,  
44 counties of the State are currently designated as nonattainment for  
45 the federal 8-hour Ozone National Ambient Air Quality Standard,  
46 and the abrupt retirement of nuclear power plants that serve New  
47 Jersey combined with increased reliance on natural gas-fired and  
48 coal-fired generation will substantially impede the State's ability to

1 meet those federal and State air quality and emissions standards and  
2 requirements.

3 (3) In light of the primacy of natural gas use for heating in New  
4 Jersey, increased reliance on natural gas-fired generation will  
5 render the electric generation and delivery systems less resilient and  
6 more vulnerable to the impacts of extreme winter weather events,  
7 natural gas pipeline accidents, and other factors affecting the  
8 deliverability of natural gas to electric generating stations in and  
9 around the State.

10 (4) The model of providing credits to zero- or low-emission  
11 energy generation sources as compensation for their environmental  
12 attributes has proven successful for Class I and Class II renewable  
13 energy sources, which receive renewable energy certificates, and  
14 solar electric power generators, which receive solar renewable  
15 energy certificates.

16 (5) A program that recognizes and compensates nuclear energy  
17 generators in a manner similar to other non-emitting energy  
18 generation resources to the extent required to prevent the loss of  
19 nuclear energy, subject to independent review as provided in  
20 section 3 of P.L. , c. (C. ) (pending before the Legislature as this  
21 bill), which the State's residents and businesses rely on for  
22 approximately 40 percent of their electricity needs, could, in the  
23 absence of equally or more cost-effective clean energy alternatives,  
24 further the State's interest in environmental protection and  
25 maintaining a diverse mix of energy sources.

26 (6) While recognizing the importance of nuclear energy  
27 generation, the State must also commit to the deployment of  
28 renewable and zero-emission energy to address climate change,  
29 drive economic development, and create new employment  
30 opportunities.

31 (7) In order to meet the goals under the "Global Warming  
32 Response Act," P.L.2007, c.112 (C.26:2C-37 et seq.), to reduce  
33 greenhouse gas emissions 80 percent by 2050, it will be necessary  
34 to significantly reduce emissions from the electric power generation  
35 sector. This will require reducing the State's heavy reliance on  
36 natural gas for electric power generation, the primary source of  
37 emissions from the electric power generation sector.

38 (8) The zero emission certificate program set forth in sections 1  
39 through 4 of P.L. , c. (C. ) (pending before the Legislature as  
40 this bill) is structured such that its costs are guaranteed to be  
41 significantly less than the social cost of carbon emissions avoided  
42 by the continued operation of selected nuclear power plants,  
43 ensuring that the program does not place an undue financial burden  
44 on retail customers. The social cost of carbon, as calculated by the  
45 U.S. Interagency Working Group on the Social Cost of Carbon in  
46 its August 2016 Technical Update, is an accepted measure of the  
47 cost of carbon emissions. Carbon emissions avoided by selected

1 nuclear power plants are but one component of their emissions  
2 avoidance benefits.

3

4 2. (New section) As used in sections 1 through 4 of P.L. , c.  
5 (C. ) (pending before the Legislature as this bill):

6 "Board" shall have the same meaning as provided in section 3 of  
7 P.L.1999, c.23 (C.48:3-51).

8 "Electric public utility" shall have the same meaning as provided  
9 in section 3 of P.L.1999, c.23 (C.48:3-51).

10 "Eligibility period" means the period of time, measured in  
11 energy years, during which a selected nuclear power plant may  
12 receive zero emission certificates pursuant to section 3 of P.L. , c.  
13 (C. ) (pending before the Legislature as this bill).

14 "Eligible nuclear power plant" means a nuclear power plant  
15 certified by the board to allow it to be selected to participate in the  
16 program established pursuant to section 3 of P.L. , c. (C. )  
17 (pending before the Legislature as this bill).

18 "Emissions avoidance benefits" means the benefits associated  
19 with the preservation of better air quality and other environmental  
20 attributes caused by the production of electric energy from a  
21 selected nuclear power plant, as well as the reduction in damage  
22 that would otherwise be caused by carbon dioxide or other  
23 greenhouse gases or other pollutants emitted but for the production  
24 of electric energy from a selected nuclear power plant. Such  
25 damage threatens massive economic and lifestyle disruption, and  
26 includes but is not limited to a contribution to sea level rise, heat  
27 waves, more frequent and severe occurrence of extreme weather  
28 events, and damage to agriculture, water resources, public health,  
29 energy and communication systems, and the natural ecosystems that  
30 define and support communities.

31 "Energy year" or "EY" shall have the same meaning as provided  
32 in section 3 of P.L.1999, c.23 (C.48:3-51).

33 "Nuclear power plant" means an individual electric generating  
34 unit utilizing nuclear fuel to produce electric power.

35 "Selected nuclear power plant" means an eligible nuclear power  
36 plant selected by the board to participate in the program established  
37 pursuant to section 3 of P.L. , c. (C. ) (pending before the  
38 Legislature as this bill).

39 "Zero emission certificate" or "ZEC" means a certificate, issued  
40 by the board or its designee, representing the fuel diversity, air  
41 quality, and environmental attributes of one megawatt-hour of  
42 electricity generated by an eligible nuclear power plant selected by  
43 the board to participate in the program established pursuant to  
44 section 3 of P.L. , c. (C. ) (pending before the Legislature as this  
45 bill).

46

47 3. (New section) a. As part of an application submitted to the  
48 board pursuant to subsection c. of this section, a nuclear power

1 plant seeking to participate in the program established by sections 1  
2 through 4 of P.L. , c. (C. ) (pending before the Legislature as this  
3 bill) shall provide to the board any financial information requested  
4 by the board pertaining to the nuclear power plant, including, but  
5 not limited to, certified cost projections over the next three energy  
6 years, including operation and maintenance expenses, fuel  
7 expenses, including spent fuel expenses, non-fuel capital expenses,  
8 fully allocated overhead costs, the cost of operational risks and  
9 market risks that would be avoided by ceasing operations, and any  
10 other information, financial or otherwise, to demonstrate that the  
11 nuclear power plant's fuel diversity, air quality, and environmental  
12 attributes are at risk of loss because the nuclear power plant is  
13 projected to not fully cover its costs and risks, or alternatively is  
14 projected to not fully cover its costs and risks including its risk-  
15 adjusted cost of capital. For purposes of this subsection,  
16 operational risks shall include, but need not be limited to, the risk  
17 that operating costs will be higher than anticipated because of new  
18 regulatory mandates or equipment failures and the risk that per  
19 megawatt hour costs will be higher than anticipated because of a  
20 lower than expected capacity factor, and market risks shall include,  
21 but need not be limited to, the risk of a forced outage and the  
22 associated costs arising from contractual obligations, and the risk  
23 that output from the nuclear power plant may not be able to be sold  
24 at projected levels. An application submitted to the board pursuant  
25 to subsection c. of this section, shall also include a certification that  
26 the nuclear power plant will cease operations within three years  
27 unless the nuclear power plant experiences a material financial  
28 change, and the certification shall specify the necessary steps  
29 required to be completed to cease the nuclear power plant's  
30 operations.

31 The financial and other information required pursuant to this  
32 subsection may be submitted on a confidential basis and shall be  
33 treated and maintained as confidential by the board and shall not be  
34 subject to public disclosure, notwithstanding any law to the  
35 contrary, including the common law. The board and the Attorney  
36 General shall jointly approve the disclosure of such confidential  
37 information to a party that they deem essential to aid the board in  
38 making the determinations required under this subsection, provided  
39 that the party is not in a position such that disclosure could harm  
40 competition and the party agrees in writing to maintain the  
41 confidentiality of the confidential information.

42 b. Notwithstanding any law, regulation, rule, or order to the  
43 contrary, the board shall complete a proceeding no later than 180  
44 days after the date of enactment of P.L. , c. (C. ) (pending  
45 before the Legislature as this bill), to allow for the commencement  
46 of a program allowing for the issuance by the board of a zero  
47 emission certificate. In this proceeding, the board shall adopt, after  
48 notice, the opportunity for comment, and public hearing, an order

1 establishing a ZEC program for selected nuclear power plants  
2 which shall include, but need not be limited to:

3 (1) a method and application process for determination of the  
4 eligibility and selection of nuclear power plants; and

5 (2) establishment of a mechanism for each electric public utility  
6 to purchase ZECs from selected nuclear power plants and a  
7 mechanism for the board to effectuate the provisions of subsection  
8 i. of this section.

9 c. No later than 210 days after the date of enactment of P.L. ,  
10 c. (C. ) (pending before the Legislature as this bill), a nuclear  
11 power plant seeking to participate in the program established by  
12 sections 1 through 4 of P.L. , c. (C. ) (pending before the  
13 Legislature as this bill) shall submit its application to the board.

14 d. Notwithstanding any law, rule, regulation, or order to the  
15 contrary, the board shall complete a proceeding no later than 330  
16 days after the date of enactment of P.L. , c. (C. ) (pending  
17 before the Legislature as this bill) and shall adopt, after notice, the  
18 opportunity for comment, and public hearing, an order establishing  
19 a rank-ordered list of the nuclear power plants eligible to be  
20 selected to receive ZECs, and establishing which eligible nuclear  
21 power plants have been selected to receive ZECs pursuant to this  
22 section. If the board determines, in its discretion, that no nuclear  
23 plant that applies pursuant to subsection c. of this section satisfies  
24 the objectives of sections 1 through 4 of P.L. , c. (C. ) (pending  
25 before the Legislature as this bill), then the board shall be under no  
26 obligation to certify any nuclear power plant as an eligible nuclear  
27 power plant.

28 e. To be certified by the board as an eligible nuclear power  
29 plant, a nuclear power plant shall:

30 (1) be licensed to operate by the United States Nuclear  
31 Regulatory Commission by the date of enactment of P.L. , c.  
32 (C. ) (pending before the Legislature as this bill) and through  
33 2030 or later;

34 (2) demonstrate to the satisfaction of the board that it makes a  
35 significant and material contribution to the air quality in the State  
36 by minimizing emissions that result from electricity consumed in  
37 New Jersey, it minimizes harmful emissions that adversely affect  
38 the citizens of the State, and if the nuclear power plant were to  
39 retire, that that retirement would significantly and negatively impact  
40 New Jersey's ability to comply with State air emissions reduction  
41 requirements;

42 (3) demonstrate to the satisfaction of the board, through the  
43 financial and other confidential information submitted to the board  
44 pursuant to subsection a. of this section, and any other information  
45 required by the board, which information may be submitted on a  
46 confidential basis and shall be treated and maintained as  
47 confidential by the board and shall not be subject to public  
48 disclosure, notwithstanding any law to the contrary, including the

1 common law, that the nuclear power plant's fuel diversity, air  
2 quality, and environmental attributes are at risk of loss because the  
3 nuclear power plant is projected not to fully cover its costs and  
4 risks, or alternatively is projected not to cover its costs including its  
5 risk-adjusted cost of capital, and that the nuclear power plant will  
6 cease operations within three years unless the nuclear power plant  
7 experiences a material financial change;

8 (4) certify annually that the nuclear power plant does not receive  
9 any direct or indirect payment or credit under a law, rule,  
10 regulation, order, tariff, or other action of this State or any other  
11 state, or a federal law, regulation, order, tariff, or other action, or a  
12 regional compact, despite its reasonable best efforts to obtain any  
13 such payment or credit, for its fuel diversity, resilience, air quality  
14 or other environmental attributes that will eliminate the need for the  
15 nuclear power plant to retire, except for any payment or credit  
16 received under the provisions of sections 1 through 4 of P.L. , c.  
17 (C. ) (pending before the Legislature as this bill); and

18 (5) submit an application fee to the board in an amount to be  
19 determined by the board, but which shall not exceed \$250,000, to be  
20 used to defray the costs incurred by the board to administer the ZEC  
21 program.

22 f. In ranking eligible nuclear power plants from first to last, the  
23 board shall consider how well the nuclear power plants satisfy the  
24 criteria set forth under the provisions of sections 1 through 4 of  
25 P.L., c. (C. ) (pending before the Legislature as this bill), and  
26 shall also consider other relevant factors such as sustainability or  
27 long-term commitment to nuclear energy production in a manner  
28 that supports New Jersey' cost-effective transition to a zero carbon  
29 energy supply. Two or more eligible nuclear power plants shall not  
30 have the same ranking.

31 g. (1) The board shall select eligible nuclear power plants to  
32 receive ZECs according to their ranking. Beginning with the top-  
33 ranked eligible nuclear power plant and continuing in rank order,  
34 the board shall continue to select nuclear power plants but not  
35 beyond the point at which the combined number of megawatt-hours  
36 of electricity produced in the energy year immediately prior to the  
37 date of enactment of P.L. , c. (C. ) (pending before the  
38 Legislature as this bill) by all selected nuclear power plants equals  
39 40 percent of the total number of megawatt-hours of electricity  
40 distributed by electric public utilities in the State in the energy year  
41 immediately prior to the date of enactment of P.L. , c. (C. )  
42 (pending before the Legislature as this bill). The board shall not  
43 select an eligible nuclear power plant to receive ZECs if the  
44 addition of the electricity produced by that nuclear power plant in  
45 the energy year immediately prior to the date of enactment of P.L. ,  
46 c. (C. ) (pending before the Legislature as this bill) to the  
47 electricity produced in the energy year immediately prior to the date  
48 of enactment of P.L. , c. (C. ) (pending before the Legislature as



1 this bill) by the selected plants ranked ahead of that plant on the  
2 rank-ordered list exceeds 40 percent of the total number of  
3 megawatt-hours of electricity distributed by electric public utilities  
4 in the State in the energy year immediately prior to the date of  
5 enactment of P.L. , c. (C. ) (pending before the Legislature as  
6 this bill).

7 (2) A selected nuclear power plant shall be eligible to receive  
8 ZECs 330 days after the date of enactment of P.L. , c. (C. )  
9 (pending before the Legislature as this bill). In the first energy year  
10 in which an eligible nuclear power plant is selected, the selected  
11 nuclear power plant shall receive a number of ZECs equal to the  
12 number of megawatt-hours of electricity it produced in that energy  
13 year starting on the date of the eligible nuclear power plant's  
14 selection. In each energy year thereafter, each selected nuclear  
15 power plant shall receive a number of ZECs equal to the number of  
16 megawatt-hours of electricity that it produced in that energy year.

17 h. (1) Selected nuclear power plants shall initially receive  
18 ZECs for an eligibility period that shall run through the end of the  
19 first energy year in which the nuclear power plant is selected, plus  
20 an additional three energy years.

21 (2) No later than 13 months prior to the conclusion of the initial  
22 eligibility period established pursuant to paragraph (1) of this  
23 subsection, and no later than 13 months prior to the conclusion of  
24 each three energy year eligibility period thereafter, a nuclear power  
25 plant may demonstrate its eligibility to the board and the board may  
26 certify the nuclear power plant's eligibility to receive ZECs for  
27 additional eligibility periods of three energy years, consistent with  
28 the provisions of sections 1 through 4 of P.L. , c. (C. ) (pending  
29 before the Legislature as this bill).

30 (3) A selected nuclear power plant shall annually certify to the  
31 board that it will continue operations at full or near full capacity for  
32 the duration of the period of its eligibility to receive ZECs, except  
33 with respect to nuclear power plant shutdowns for necessary  
34 maintenance and refueling.

35 i. (1) The board shall determine the price of a ZEC each  
36 energy year by dividing the total number of dollars held by electric  
37 public utilities in the accounts established pursuant to paragraph (1)  
38 of subsection j. of this section at the end of the prior energy year by  
39 the greater of: 40 percent of the total number of megawatt-hours of  
40 electricity distributed by the electric public utilities in the State in  
41 the prior energy year, or the number of megawatt-hours of  
42 electricity generated in the prior energy year by the selected nuclear  
43 power plants.

44 (2) Each electric public utility in the State shall be required to  
45 begin to purchase ZECs on a monthly basis from each selected  
46 nuclear power plant with payment to follow within 90 days after the  
47 conclusion of the first energy year in which selected nuclear power  
48 plants receive ZECs and within 90 days after the conclusion of each

1 subsequent energy year. The number of ZECs an electric public  
2 utility shall be required to purchase shall equal the total number of  
3 ZECs received by the selected nuclear power plants for the prior  
4 energy year pursuant to paragraph (2) of subsection g. of this  
5 section multiplied by the percentage of electricity distributed in the  
6 State by the electric public utility as compared to other electric  
7 public utilities in the State.

8 (3) To ensure that a selected nuclear power plant shall not  
9 receive double-payment for its fuel diversity, resilience, air quality  
10 or other environmental attributes, the board shall annually  
11 determine the dollar amount received by the selected nuclear power  
12 plant in an energy year pursuant to a law, rule, regulation, order,  
13 tariff, or other action of the State or any other state, or a federal  
14 law, regulation, order, tariff, or other action, or regional compact  
15 referenced in paragraph (4) of subsection e. of this section.  
16 Notwithstanding paragraph (2) of this subsection, the number of  
17 ZECs purchased by each electric public utility from a selected  
18 nuclear power plant for an energy year shall be reduced by the  
19 number of ZECs equal in value to the dollar amount determined by  
20 the board in this paragraph, multiplied by the percentage of  
21 electricity distributed in the State by the electric public utility as  
22 compared to other electric public utilities in the State. To the extent  
23 that the board determines that a selected nuclear plant receives  
24 revenues for its fuel diversity, resilience, air quality, or other  
25 environmental attributes, the board shall immediately reduce the  
26 number of ZECs on a prospective basis consistent with the level of  
27 such revenues.

28 j. (1) The board shall order the full recovery of all costs  
29 associated with the electric public utility's required procurement of  
30 ZECs, and with the board's implementation of the ZEC program  
31 under sections 1 through 4 of P.L. , c. (C. ) (pending before the  
32 Legislature as this bill), through a non-bypassable, irrevocable  
33 charge imposed on the electric public utility's retail distribution  
34 customers. Within 150 days after the date of enactment of P.L. ,  
35 c. (C. ) (pending before the Legislature as this bill), each electric  
36 public utility shall file with the board a tariff to recover from its  
37 retail distribution customers a charge in the amount of \$0.004 per  
38 kilowatt-hour which reflects the emissions avoidance benefits  
39 associated with the continued operation of selected nuclear power  
40 plants. Within 60 days after the tariff filing required pursuant to  
41 this paragraph, after notice, the opportunity for comment, and  
42 public hearing, the board shall approve the tariff, provided that it is  
43 consistent with the provisions of this subsection. No later than the  
44 date of the board's order establishing the initial selected nuclear  
45 power plants to receive ZECs, each electric public utility shall  
46 implement the tariff and begin collecting from its customers the  
47 approved charge. Revenues collected by the electric public utility  
48 from the non-bypassable, irrevocable charge shall be placed in a

1 separate, interest-bearing account and shall be used solely to  
2 purchase ZECs, and to reimburse the board for reasonable,  
3 verifiable costs the board incurs to implement the ZEC program  
4 pursuant to sections 1 through 4 of P.L. , c. (C. ) (pending  
5 before the Legislature as this bill) to the extent the board's costs  
6 exceed the application fees collected by the board pursuant to  
7 paragraph (5) of subsection e. of this section.

8 (2) Notwithstanding any provision of sections 1 through 4 of  
9 P.L. , c. (C. ) (pending before the Legislature as this bill) to the  
10 contrary, an electric public utility shall not be required to purchase  
11 any additional number of ZECs if the cost of the additional number  
12 of ZECs exceeds the revenues deposited in the electric public  
13 utility's separate, interest-bearing account, created pursuant to  
14 paragraph (1) of this subsection, for that energy year, after  
15 subtracting the reasonable, verifiable costs incurred by the board  
16 during that energy year to implement the ZEC program pursuant to  
17 this section, which costs shall be remitted to the board from the  
18 ZEC fund each energy year in a manner to be determined by the  
19 board. Excess monies in an electric public utility's separate,  
20 interest-bearing account shall be refunded to its retail distribution  
21 customers at the end of each energy year.

22 (3) (a) Notwithstanding the provisions of paragraph (1) of this  
23 subsection, and to ensure that the ZEC program remains affordable to  
24 New Jersey customers, the board may, in its discretion, reduce the per  
25 kilowatt-hour charge imposed by paragraph (1) of this subsection  
26 starting in the second three year eligibility period and for each  
27 subsequent three year eligibility period thereafter, provided that the  
28 board determines that a reduced charge will nonetheless be  
29 sufficient to achieve the State's air quality and other environmental  
30 objectives by preventing the retirement of the nuclear power plants  
31 that meet the eligibility criteria established pursuant to subsections  
32 d. and e. of this section.

33 (b) If the board reduces the per kilowatt-hour charge imposed by  
34 paragraph (1) of this subsection pursuant to subparagraph (a) of this  
35 paragraph, the reduction shall be applicable to the next eligibility  
36 period only and the board shall make its determination no later than 13  
37 months prior to the start of that eligibility period. Within 30 days  
38 thereafter, each electric public utility shall file, in lieu of the tariff  
39 described in paragraph (1) of this subsection, a tariff consistent with  
40 the board's determination. Within 60 days after filing of the tariff,  
41 after notice, the opportunity for comment, and public hearing, the  
42 board shall approve the revised tariff, provided that it is consistent  
43 with the board's determination. The revised tariff will take effect  
44 starting in the next eligibility period.

45 (c) If the board does not certify any nuclear power plants for a  
46 subsequent eligibility period pursuant to sections 1 through 4 of  
47 P.L. , c. (C. ) (pending before the Legislature as this bill), the  
48 board may, in its discretion, reduce the per kilowatt-hour charge  
49 imposed pursuant to paragraph (1) of this subsection to ensure that

1 the ZEC program remains affordable to New Jersey customers in  
2 the final year of the first eligibility period, provided that the board  
3 determines that a reduced charge will nonetheless be sufficient to  
4 achieve the State's air quality and environmental objectives by  
5 preventing the retirement of the nuclear power plants that meet the  
6 eligibility criteria established pursuant to subsections d. and e. of  
7 this section.

8 (d) For the second three energy year eligibility period, and every  
9 subsequent eligibility period thereafter, a selected nuclear power  
10 plant shall pay a renewal fee to the board in an amount to be  
11 determined by the board, but which shall not exceed \$250,000, to be  
12 used to defray the costs incurred by the board to administer the ZEC  
13 program.

14 k. (1) A selected nuclear power plant shall be excused from  
15 performance, including but not limited to the sale of ZECs, and a  
16 payment from an electric public utility shall not be due to the  
17 selected nuclear power plant, if:

18 (a) a selected nuclear power suspends or ceases operations,  
19 despite the selected nuclear power plant's reasonable efforts to  
20 continue operations, due to an event beyond its control, including  
21 but not limited to acts of God, flood, drought, earthquake, storm,  
22 fire, lightning, epidemic, war, riot, labor dispute, labor or material  
23 shortage, sabotage, or explosion. The selected nuclear power plant  
24 shall no longer be excused from performance, and a payment from a  
25 public utility shall be due, after conclusion of the event;

26 (b) a State law is enacted imposing a significant new tax, special  
27 assessment, or fee on the generation of electricity, the ownership or  
28 leasehold of a generating unit, or the privilege or occupation of the  
29 generation, ownership, or leasehold of generation units by a  
30 selected nuclear power plant;

31 (c) a State or federal law is enacted that materially reduces the  
32 value of a ZEC, or the board exercises its discretion to reduce the  
33 amount of the per kilowatt-hour charge pursuant to paragraph (3) of  
34 subsection j. of this section;

35 (d) the selected nuclear power plant requires capital  
36 expenditures in excess of \$40,000,000 that were neither known nor  
37 reasonably foreseeable at the time it was selected to receive ZECs,  
38 and the capital expenditures are expenditures that a prudent owner  
39 or operator of a selected nuclear power plant would not undertake;  
40 or

41 (e) The United States Nuclear Regulatory Commission  
42 terminates the selected nuclear power plant's license.

43 (2) If a selected nuclear power plant ceases operations during an  
44 eligibility period for any reason other than those specified in this  
45 subsection, the selected nuclear power plant shall pay a charge to  
46 the electric public utilities that purchased ZECs from the selected  
47 nuclear power plant in an amount equal to the compensation  
48 received for the sale of ZECs since the board's last determination of

1 the selected nuclear power plant's eligibility to receive ZECs. An  
2 electric public utility shall provide a refund to its retail distribution  
3 customers in an amount equal to the charge paid by a selected  
4 nuclear power plant to the electric public utility pursuant to the  
5 provisions of this paragraph.

6 (3) The owner of a selected nuclear power plant shall, within  
7 two years after receiving ZECs, submit a plan to the board to retain,  
8 retrain, or compensate personnel whose employment would be  
9 eliminated as a direct result of the cessation of the selected nuclear  
10 power plant's operations, including an alternative economic  
11 development plan for communities that rely on the selected nuclear  
12 power plant for a substantial portion of their tax revenues.

13 1. A selected nuclear power plant shall not lay off any  
14 personnel unless the lay-off is due to employee misconduct or  
15 underperformance issues, or due to the suspension or cessation of  
16 the selected nuclear power plant's operations as provided in  
17 subsection k. of this section.

18 m. The owner of a selected nuclear power plant shall, within  
19 two years after receiving ZECs, conduct a study and prepare a  
20 written report in cooperation with selected experts, to determine the  
21 optimal use of dry cask storage of spent nuclear fuel at its site,  
22 considering environmental impacts, worker safety, and cost  
23 impacts.

24  
25 4. (New section) a. No later than 10 years after the date of  
26 enactment of P.L. , c. (C. ) (pending before the Legislature as  
27 this bill), the Board of Public Utilities shall conduct a study to  
28 evaluate the efficacy of the zero emission certificate program and  
29 submit a written report thereon to the Governor and, pursuant to  
30 section 2 of P.L.1991, c.164 (C.52:14-19.1), to the Legislature. In  
31 conducting the study, the board shall evaluate the program's effect  
32 on the premature retirement of nuclear power plants, its effect on  
33 the environment and air quality in the State, and its contribution to a  
34 more reliable energy supply by assuring fuel diversity. The study  
35 shall also evaluate the program's benefits and costs to ratepayers.

36 b. The written report shall: (1) summarize the analysis  
37 conducted pursuant to subsection a. of this section; (2) discuss and  
38 quantify the potential benefits and costs associated with the  
39 program; (3) recommend any changes to the program or whether it  
40 should continue; and (4) recommend whether the program should  
41 be expanded to include other technologies.

42  
43 5. (New section) a. No later than one year after the date of  
44 enactment of P.L. , c. (C. ) (pending before the Legislature as  
45 this bill), the Board of Public Utilities, in consultation with PJM  
46 Interconnection, L.L.C., the independent system operator, shall,  
47 together with stakeholders including but not limited to third party  
48 suppliers and electric public utilities, conduct an energy storage

1 analysis and submit a written report to the Governor and, pursuant  
2 to section 2 of P.L.1991, c.164 (C.52:14-19.1), to the Legislature  
3 concerning energy storage needs and opportunities in the State. In  
4 conducting this analysis, the board shall:

5 (1) consider how implementation of renewable electric energy  
6 storage systems may benefit ratepayers by providing emergency  
7 back-up power for essential services, offsetting peak loads, and  
8 stabilizing the electric distribution system;

9 (2) consider whether implementation of renewable electric  
10 energy storage systems would promote the use of electric vehicles  
11 in the State, and the potential impact on renewable energy  
12 production in the State;

13 (3) study the types of energy storage technologies currently  
14 being implemented in the State and elsewhere;

15 (4) consider the benefits and costs to ratepayers, local  
16 governments, and electric public utilities associated with the  
17 development and implementation of additional energy storage  
18 technologies;

19 (5) determine the optimal amount of energy storage to be added  
20 in the State over the next five years in order to provide the  
21 maximum benefit to ratepayers;

22 (6) determine the optimum points of entry into the electric  
23 distribution system for distributed energy resources; and

24 (7) calculate the cost to the State's ratepayers of adding the  
25 optimal amount of energy storage.

26 In conducting the analysis required by this subsection, the board  
27 shall also consider the need for integration of distributed energy  
28 resources into the electric distribution system and how distributed  
29 energy resources may be incorporated into the electric distribution  
30 system in the most efficient and cost-effective manner.

31 b. In conducting the energy storage analysis required by this  
32 section, the board shall consult with the Laboratory for Energy  
33 Smart Systems in the Center for Advanced Infrastructure and  
34 Transportation at Rutgers, The State University, and public and  
35 private entities in the State and in other states that have conducted  
36 studies concerning, or are implementing technologies for, energy  
37 storage and distributed energy resources.

38 c. The written report shall: (1) summarize the analysis  
39 conducted pursuant to subsection a. of this section; (2) discuss and  
40 quantify the potential benefits and costs associated with increasing  
41 opportunities for energy storage and distributed energy resources in  
42 the State; and (3) recommend ways to increase opportunities for  
43 energy storage and distributed energy resources in the State,  
44 including any recommendations for financial incentives to aid in the  
45 development and implementation of these technologies by public  
46 and private entities in the State.

47 d. No later than six months after completion of the report, the  
48 board shall initiate a proceeding to establish a process and

1 mechanism for achieving the goal of 600 megawatts of energy  
2 storage by 2021 and 2,000 megawatts of energy storage by 2030.

3

4 6. Section 38 of P.L.1999, c.23 (C.48:3-87) is amended to read  
5 as follows:

6 38. a. The board shall require an electric power supplier or  
7 basic generation service provider to disclose on a customer's bill or  
8 on customer contracts or marketing materials, a uniform, common  
9 set of information about the environmental characteristics of the  
10 energy purchased by the customer, including, but not limited to:

11 (1) Its fuel mix, including categories for oil, gas, nuclear, coal,  
12 solar, hydroelectric, wind and biomass, or a regional average  
13 determined by the board;

14 (2) Its emissions, in pounds per megawatt hour, of sulfur  
15 dioxide, carbon dioxide, oxides of nitrogen, and any other pollutant  
16 that the board may determine to pose an environmental or health  
17 hazard, or an emissions default to be determined by the board; and

18 (3) Any discrete emission reduction retired pursuant to rules and  
19 regulations adopted pursuant to P.L.1995, c.188.

20 b. Notwithstanding any provisions of the "Administrative  
21 Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.) to the  
22 contrary, the board shall initiate a proceeding and shall adopt, in  
23 consultation with the Department of Environmental Protection, after  
24 notice and opportunity for public comment and public hearing,  
25 interim standards to implement this disclosure requirement,  
26 including, but not limited to:

27 (1) A methodology for disclosure of emissions based on output  
28 pounds per megawatt hour;

29 (2) Benchmarks for all suppliers and basic generation service  
30 providers to use in disclosing emissions that will enable consumers  
31 to perform a meaningful comparison with a supplier's or basic  
32 generation service provider's emission levels; and

33 (3) A uniform emissions disclosure format that is graphic in  
34 nature and easily understandable by consumers. The board shall  
35 periodically review the disclosure requirements to determine if  
36 revisions to the environmental disclosure system as implemented  
37 are necessary.

38 Such standards shall be effective as regulations immediately  
39 upon filing with the Office of Administrative Law and shall be  
40 effective for a period not to exceed 18 months, and may, thereafter,  
41 be amended, adopted or readopted by the board in accordance with  
42 the provisions of the "Administrative Procedure Act."

43 c. (1) The board may adopt, in consultation with the  
44 Department of Environmental Protection, after notice and  
45 opportunity for public comment, an emissions portfolio standard  
46 applicable to all electric power suppliers and basic generation  
47 service providers, upon a finding that:

1 (a) The standard is necessary as part of a plan to enable the  
2 State to meet federal Clean Air Act or State ambient air quality  
3 standards; and

4 (b) Actions at the regional or federal level cannot reasonably be  
5 expected to achieve the compliance with the federal standards.

6 (2) By July 1, 2009, the board shall adopt, pursuant to the  
7 "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et  
8 seq.), a greenhouse gas emissions portfolio standard to mitigate  
9 leakage or another regulatory mechanism to mitigate leakage  
10 applicable to all electric power suppliers and basic generation  
11 service providers that provide electricity to customers within the  
12 State. The greenhouse gas emissions portfolio standard or any other  
13 regulatory mechanism to mitigate leakage shall:

14 (a) Allow a transition period, either before or after the effective  
15 date of the regulation to mitigate leakage, for a basic generation  
16 service provider or electric power supplier to either meet the  
17 emissions portfolio standard or other regulatory mechanism to  
18 mitigate leakage, or to transfer any customer to a basic generation  
19 service provider or electric power supplier that meets the emissions  
20 portfolio standard or other regulatory mechanism to mitigate  
21 leakage. If the transition period allowed pursuant to this  
22 subparagraph occurs after the implementation of an emissions  
23 portfolio standard or other regulatory mechanism to mitigate  
24 leakage, the transition period shall be no longer than three years;  
25 and

26 (b) Exempt the provision of basic generation service pursuant to  
27 a basic generation service purchase and sale agreement effective  
28 prior to the date of the regulation.

29 Unless the Attorney General or the Attorney General's designee  
30 determines that a greenhouse gas emissions portfolio standard  
31 would unconstitutionally burden interstate commerce or would be  
32 preempted by federal law, the adoption by the board of an electric  
33 energy efficiency portfolio standard pursuant to subsection g. of this  
34 section, a gas energy efficiency portfolio standard pursuant to  
35 subsection h. of this section, or any other enhanced energy  
36 efficiency policies to mitigate leakage shall not be considered  
37 sufficient to fulfill the requirement of this subsection for the  
38 adoption of a greenhouse gas emissions portfolio standard or any  
39 other regulatory mechanism to mitigate leakage.

40 d. Notwithstanding any provisions of the "Administrative  
41 Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.) to the  
42 contrary, the board shall initiate a proceeding and shall adopt, after  
43 notice, provision of the opportunity for comment, and public  
44 hearing, renewable energy portfolio standards that shall require:

45 (1) that two and one-half percent of the kilowatt hours sold in  
46 this State by each electric power supplier and each basic generation  
47 service provider be from **【Class I or】** Class II renewable energy  
48 sources;



1 (2) beginning on January 1, ~~【2001】~~ 2020, that ~~【one-half of~~  
2 ~~one】~~ 21 percent of the kilowatt hours sold in this State by each  
3 electric power supplier and each basic generation service provider  
4 be from Class I renewable energy sources. The board shall increase  
5 the required percentage for Class I renewable energy sources so that  
6 by January 1, ~~【2006, one percent】~~ 2025, 35 percent of the kilowatt  
7 hours sold in this State by each electric power supplier and each  
8 basic generation service provider shall be from Class I renewable  
9 energy sources ~~【and shall additionally increase the required~~  
10 ~~percentage for Class I renewable energy sources by one-half of one~~  
11 ~~percent each year until January 1, 2012, when four percent】~~ , and  
12 by January 1, 2030, 50 percent of the kilowatt hours sold in this  
13 State by each electric power supplier and each basic generation  
14 service provider shall be from Class I renewable energy sources.  
15 Notwithstanding the requirements of this paragraph, the board shall  
16 ensure that the cost to ratepayers of the Class I renewable energy  
17 requirement imposed pursuant to this subsection, shall be capped so  
18 that the cost to customers of satisfying the requirement shall not  
19 exceed seven percent of the Statewide average residential customer  
20 bill for energy year 2019, energy year 2020, and energy year 2021,  
21 respectively, and shall not exceed five percent of the Statewide  
22 average residential customer bill in any year thereafter. The board  
23 shall take any steps necessary to meet the cap on the cost to  
24 customers including, but not limited to, adjusting the Class I  
25 renewable portfolio standard requirement pursuant to this  
26 subsection.

27 An electric power supplier or basic generation service provider  
28 may satisfy the requirements of this subsection by participating in a  
29 renewable energy trading program approved by the board in  
30 consultation with the Department of Environmental Protection;

31 (3) that the board establish a multi-year schedule, applicable to  
32 each electric power supplier or basic generation service provider in  
33 this State, beginning with the one-year period commencing on June  
34 1, 2010, and continuing for each subsequent one-year period up to  
35 and including, the one-year period commencing on June 1, ~~【2028】~~  
36 2033, that requires the following number or percentage, as the case  
37 may be, of kilowatt-hours sold in this State by each electric power  
38 supplier and each basic generation service provider to be from solar  
39 electric power generators connected to the distribution system in  
40 this State:

41	EY 2011	306 Gigawatthours (Gwhrs)
42	EY 2012	442 Gwhrs
43	EY 2013	596 Gwhrs
44	EY 2014	2.050%
45	EY 2015	2.450%
46	EY 2016	2.750%
47	EY 2017	3.000%

1	EY 2018	3.200%
2	EY 2019	<b>【3.290%】</b> <u>4.300%</u>
3	EY 2020	<b>【3.380%】</b> <u>4.900%</u>
4	EY 2021	<b>【3.470%】</b> <u>5.100%</u>
5	<b>【EY 2022</b>	3.560%
6	EY 2023	3.650%
7	EY 2024	3.740%
8	EY 2025	3.830%
9	EY 2026	3.920%
10	EY 2027	4.010%

11 EY 2028 4.100 percent, and for every energy year thereafter, at  
 12 least 4.100% per energy year to reflect an increasing number of  
 13 kilowatt-hours to be purchased by suppliers or providers from solar  
 14 electric power generators connected to the distribution system in  
 15 this State, and to establish a framework within which, of the  
 16 electricity that the generators sell in this State, suppliers and  
 17 providers shall each obtain at least 3.470 percent in the energy year  
 18 2021 and 4.100 percent in the energy year 2028 from solar electric  
 19 power generators connected to the distribution system in this State,  
 20 provided, however, that: **】**

21	<u>EY 2022</u>	<u>5.100%</u>
22	<u>EY 2023</u>	<u>5.100%</u>
23	<u>EY 2024</u>	<u>4.900%</u>
24	<u>EY 2025</u>	<u>4.800%</u>
25	<u>EY 2026</u>	<u>4.500%</u>
26	<u>EY 2027</u>	<u>4.350%</u>
27	<u>EY 2028</u>	<u>3.740%</u>
28	<u>EY 2029</u>	<u>3.070%</u>
29	<u>EY 2030</u>	<u>2.210%</u>
30	<u>EY 2031</u>	<u>1.580%</u>
31	<u>EY 2032</u>	<u>1.400%</u>
32	<u>EY 2033</u>	<u>1.100%</u>

33 No later than 24 months after the date of enactment of P.L. \_\_\_\_\_, c.  
 34 (C. \_\_\_\_\_) (pending before the Legislature as this bill), the board shall  
 35 complete a study that evaluates how to modify or replace the SREC  
 36 program to encourage the continued efficient and orderly development  
 37 of solar renewable energy generating sources throughout the State.  
 38 The board shall submit the written report thereon to the Governor  
 39 and, pursuant to section 2 of P.L.1991, c.164 (C.52:14-19.1), to the  
 40 Legislature. The board shall consult with public utilities, industry  
 41 experts, regional grid operators, solar power providers and financiers,  
 42 and other State agencies to determine whether the board can modify  
 43 the SREC program such that the program will:

44 (1) continually reduce, where feasible, the cost of achieving the  
 45 solar energy goals set forth above;

46 (2) provide an orderly transition from the SREC program to a new  
 47 or modified program;

1       (3) develop megawatt targets for grid connected and distribution  
2 systems, including residential and small commercial rooftop systems,  
3 community solar systems, and large scale behind the meter systems, as  
4 a share of the overall solar requirement, which targets the board may  
5 modify periodically based on the cost, feasibility, or social impacts of  
6 different types of projects;

7       (4) establish and update market-based maximum incentive  
8 payment caps periodically for each of the above categories of solar  
9 electric power generation facilities;

10       (5) encourage and facilitate market-based cost recovery through  
11 long-term contracts and energy market sales; and

12       (6) where cost recovery is needed for any portion of an efficient  
13 solar electric power generation facility when costs are not recoverable  
14 through wholesale market sales and direct payments from customers,  
15 utilize competitive processes such as competitive procurement and  
16 long-term contracts where possible to assure such recovery, without  
17 exceeding the maximum incentive payment cap for that category of  
18 facility.

19       The board shall approve, conditionally approve, or disapprove  
20 any application for designation as connected to the distribution  
21 system of a solar electric power generation facility filed with the  
22 board after the date of enactment of P.L. , c. (pending before the  
23 Legislature as this bill), no more than 90 days after receipt by the  
24 board of a completed application. For any such application for a  
25 project greater than 25 kilowatts, the board shall require the  
26 applicant to post a notice escrow with the board in an amount of  
27 \$40 per kilowatt of DC nameplate capacity of the facility, not to  
28 exceed \$40,000. The notice escrow amount shall be reimbursed to  
29 the applicant in full upon either denial of the application by the  
30 board or upon commencement of commercial operation of the solar  
31 electric power generation facility. The escrow amount shall be  
32 forfeited to the State if the facility is designated as connected to the  
33 distribution system pursuant to this subsection but does not  
34 commence commercial operation within two years following the  
35 date of the designation by the board.

36       For all applications for designation as connected to the  
37 distribution system of a solar electric power generation facility filed  
38 with the board after the date of enactment of P.L. , c. (pending  
39 before the Legislature as this bill), the SREC term shall be 10 years.

40       (a) The board shall determine an appropriate period of no less  
41 than 120 days following the end of an energy year prior to which a  
42 provider or supplier must demonstrate compliance for that energy  
43 year with the annual renewable portfolio standard;

44       (b) No more than 24 months following the date of enactment of  
45 P.L.2012, c.24, the board shall complete a proceeding to investigate  
46 approaches to mitigate solar development volatility and prepare and  
47 submit, pursuant to section 2 of P.L.1991, c.164 (C.52:14-19.1), a  
48 report to the Legislature, detailing its findings and

1 recommendations. As part of the proceeding, the board shall  
2 evaluate other techniques used nationally and internationally;

3 (c) The solar renewable portfolio standards requirements in this  
4 paragraph shall exempt those existing supply contracts which are  
5 effective prior to the date of enactment of **[P.L.2012, c.24]** P.L. ,  
6 c. (C. ) (pending before the Legislature as this bill) from any  
7 increase beyond the number of SRECs mandated by the solar  
8 renewable portfolio standards requirements that were in effect on  
9 the date that the providers executed their existing supply contracts.  
10 This limited exemption for providers' existing supply contracts shall  
11 not be construed to lower the Statewide solar sourcing requirements  
12 set forth in this paragraph. Such incremental requirements that  
13 would have otherwise been imposed on exempt providers shall be  
14 distributed over the providers not subject to the existing supply  
15 contract exemption until such time as existing supply contracts  
16 expire and all providers are subject to the new requirement in a  
17 manner that is competitively neutral among all providers and  
18 suppliers. **[The board shall]** Notwithstanding any rule or  
19 regulation to the contrary, the board shall recognize these new solar  
20 purchase obligations as a change required by operation of law and  
21 implement the provisions of this subsection in a manner so as to  
22 prevent any subsidies between suppliers and providers and to  
23 promote competition in the electricity supply industry.

24 An electric power supplier or basic generation service provider  
25 may satisfy the requirements of this subsection by participating in a  
26 renewable energy trading program approved by the board in  
27 consultation with the Department of Environmental Protection, or  
28 compliance with the requirements of this subsection may be  
29 demonstrated to the board by suppliers or providers through the  
30 purchase of SRECs.

31 The renewable energy portfolio standards adopted by the board  
32 pursuant to paragraphs (1) and (2) of this subsection shall be  
33 effective as regulations immediately upon filing with the Office of  
34 Administrative Law and shall be effective for a period not to exceed  
35 18 months, and may, thereafter, be amended, adopted or readopted  
36 by the board in accordance with the provisions of the  
37 "Administrative Procedure Act."

38 The renewable energy portfolio standards adopted by the board  
39 pursuant to this paragraph shall be effective as regulations  
40 immediately upon filing with the Office of Administrative Law and  
41 shall be effective for a period not to exceed 30 months after such  
42 filing, and shall, thereafter, be amended, adopted or readopted by  
43 the board in accordance with the "Administrative Procedure Act";  
44 and

45 (4) within 180 days after the date of enactment of P.L.2010,  
46 c.57 (C.48:3-87.1 et al.), that the board establish an offshore wind  
47 renewable energy certificate program to require that a percentage of  
48 the kilowatt hours sold in this State by each electric power supplier

1 and each basic generation service provider be from offshore wind  
2 energy in order to support at least **【1,100】** 3,500 megawatts of  
3 generation from qualified offshore wind projects.

4 The percentage established by the board pursuant to this  
5 paragraph shall serve as an offset to the renewable energy portfolio  
6 standard established pursuant to paragraphs (1) and (2) of this  
7 subsection and shall reduce the corresponding Class I renewable  
8 energy requirement.

9 The percentage established by the board pursuant to this  
10 paragraph shall reflect the projected OREC production of each  
11 qualified offshore wind project, approved by the board pursuant to  
12 section 3 of P.L.2010, c.57 (C.48:3-87.1), for **【twenty】** 20 years  
13 from the commercial operation start date of the qualified offshore  
14 wind project which production projection and OREC purchase  
15 requirement, once approved by the board, shall not be subject to  
16 reduction.

17 An electric power supplier or basic generation service provider  
18 shall comply with the OREC program established pursuant to this  
19 paragraph through the purchase of offshore wind renewable energy  
20 certificates at a price and for the time period required by the board.  
21 In the event there are insufficient offshore wind renewable energy  
22 certificates available, the electric power supplier or basic generation  
23 service provider shall pay an offshore wind alternative compliance  
24 payment established by the board. Any offshore wind alternative  
25 compliance payments collected shall be refunded directly to the  
26 ratepayers by the electric public utilities.

27 The rules established by the board pursuant to this paragraph  
28 shall be effective as regulations immediately upon filing with the  
29 Office of Administrative Law and shall be effective for a period not  
30 to exceed 18 months, and may, thereafter, be amended, adopted or  
31 readopted by the board in accordance with the provisions of the  
32 "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et  
33 seq.).

34 e. Notwithstanding any provisions of the "Administrative  
35 Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.) to the  
36 contrary, the board shall initiate a proceeding and shall adopt, after  
37 notice, provision of the opportunity for comment, and public  
38 hearing:

39 (1) net metering standards for electric power suppliers and basic  
40 generation service providers. The standards shall require electric  
41 power suppliers and basic generation service providers to offer net  
42 metering at non-discriminatory rates to industrial, large  
43 commercial, residential and small commercial customers, as those  
44 customers are classified or defined by the board, that generate  
45 electricity, on the customer's side of the meter, using a Class I  
46 renewable energy source, for the net amount of electricity supplied  
47 by the electric power supplier or basic generation service provider  
48 over an annualized period. Systems of any sized capacity, as

1 measured in watts, are eligible for net metering. If the amount of  
2 electricity generated by the customer-generator, plus any kilowatt  
3 hour credits held over from the previous billing periods, exceeds the  
4 electricity supplied by the electric power supplier or basic  
5 generation service provider, then the electric power supplier or  
6 basic generation service provider, as the case may be, shall credit  
7 the customer-generator for the excess kilowatt hours until the end of  
8 the annualized period at which point the customer-generator will be  
9 compensated for any remaining credits or, if the customer-generator  
10 chooses, credit the customer-generator on a real-time basis, at the  
11 electric power supplier's or basic generation service provider's  
12 avoided cost of wholesale power or the PJM electric power pool's  
13 real-time locational marginal pricing rate, adjusted for losses, for  
14 the respective zone in the PJM electric power pool. Alternatively,  
15 the customer-generator may execute a bilateral agreement with an  
16 electric power supplier or basic generation service provider for the  
17 sale and purchase of the customer-generator's excess generation.  
18 The customer-generator may be credited on a real-time basis, so  
19 long as the customer-generator follows applicable rules prescribed  
20 by the PJM electric power pool for its capacity requirements for the  
21 net amount of electricity supplied by the electric power supplier or  
22 basic generation service provider. The board may authorize an  
23 electric power supplier or basic generation service provider to cease  
24 offering net metering to customers that are not already net metered  
25 whenever the total rated generating capacity owned and operated by  
26 net metering customer-generators Statewide equals **[2.9]** 5.8  
27 percent of the total annual kilowatt-hours sold in this State by each  
28 electric power supplier and each basic generation service provider  
29 during the prior one-year period;

30 (2) safety and power quality interconnection standards for Class  
31 I renewable energy source systems used by a customer-generator  
32 that shall be eligible for net metering.

33 Such standards or rules shall take into consideration the goals of  
34 the New Jersey Energy Master Plan, applicable industry standards,  
35 and the standards of other states and the Institute of Electrical and  
36 Electronics Engineers. The board shall allow electric public  
37 utilities to recover the costs of any new net meters, upgraded net  
38 meters, system reinforcements or upgrades, and interconnection  
39 costs through either their regulated rates or from the net metering  
40 customer-generator;

41 (3) credit or other incentive rules for generators using Class I  
42 renewable energy generation systems that connect to New Jersey's  
43 electric public utilities' distribution system but who do not net  
44 meter; and

45 (4) net metering aggregation standards to require electric public  
46 utilities to provide net metering aggregation to single electric public  
47 utility customers that operate a solar electric power generation  
48 system installed at one of the customer's facilities or on property

1 owned by the customer, provided that any such customer is a State  
2 entity, school district, county, county agency, county authority,  
3 municipality, municipal agency, or municipal authority. The  
4 standards shall provide that, in order to qualify for net metering  
5 aggregation, the customer must operate a solar electric power  
6 generation system using a net metering billing account, which  
7 system is located on property owned by the customer, provided that:  
8 (a) the property is not land that has been actively devoted to  
9 agricultural or horticultural use and that is valued, assessed, and  
10 taxed pursuant to the "Farmland Assessment Act of 1964,"  
11 P.L.1964, c.48 (C.54:4-23.1 et seq.) at any time within the 10-year  
12 period prior to the effective date of P.L.2012, c.24, provided,  
13 however, that the municipal planning board of a municipality in  
14 which a solar electric power generation system is located may  
15 waive the requirement of this subparagraph (a), (b) the system is not  
16 an on-site generation facility, (c) all of the facilities of the single  
17 customer combined for the purpose of net metering aggregation are  
18 facilities owned or operated by the single customer and are located  
19 within its territorial jurisdiction except that all of the facilities of a  
20 State entity engaged in net metering aggregation shall be located  
21 within five miles of one another, and (d) all of those facilities are  
22 within the service territory of a single electric public utility and are  
23 all served by the same basic generation service provider or by the  
24 same electric power supplier. The standards shall provide that in  
25 order to qualify for net metering aggregation, the customer's solar  
26 electric power generation system shall be sized so that its annual  
27 generation does not exceed the combined metered annual energy  
28 usage of the qualified customer facilities, and the qualified  
29 customer facilities shall all be in the same customer rate class under  
30 the applicable electric public utility tariff. For the customer's  
31 facility or property on which the solar electric generation system is  
32 installed, the electricity generated from the customer's solar electric  
33 generation system shall be accounted for pursuant to the provisions  
34 of paragraph (1) of this subsection to provide that the electricity  
35 generated in excess of the electricity supplied by the electric power  
36 supplier or the basic generation service provider, as the case may  
37 be, for the customer's facility on which the solar electric generation  
38 system is installed, over the annualized period, is credited at the  
39 electric power supplier's or the basic generation service provider's  
40 avoided cost of wholesale power or the PJM electric power pool  
41 real-time locational marginal pricing rate. All electricity used by  
42 the customer's qualified facilities, with the exception of the facility  
43 or property on which the solar electric power generation system is  
44 installed, shall be billed at the full retail rate pursuant to the electric  
45 public utility tariff applicable to the customer class of the customer  
46 using the electricity. A customer may contract with a third party to  
47 operate a solar electric power generation system, for the purpose of  
48 net metering aggregation. Any contractual relationship entered into

1 for operation of a solar electric power generation system related to  
2 net metering aggregation shall include contractual protections that  
3 provide for adequate performance and provision for construction  
4 and operation for the term of the contract, including any appropriate  
5 bonding or escrow requirements. Any incremental cost to an  
6 electric public utility for net metering aggregation shall be fully and  
7 timely recovered in a manner to be determined by the board. The  
8 board shall adopt net metering aggregation standards within 270  
9 days after the effective date of P.L.2012, c.24.

10 Such rules shall require the board or its designee to issue a credit  
11 or other incentive to those generators that do not use a net meter but  
12 otherwise generate electricity derived from a Class I renewable  
13 energy source and to issue an enhanced credit or other incentive,  
14 including, but not limited to, a solar renewable energy credit, to  
15 those generators that generate electricity derived from solar  
16 technologies.

17 Such standards or rules shall be effective as regulations  
18 immediately upon filing with the Office of Administrative Law and  
19 shall be effective for a period not to exceed 18 months, and may,  
20 thereafter, be amended, adopted or readopted by the board in  
21 accordance with the provisions of the "Administrative Procedure  
22 Act."

23 f. The board may assess, by written order and after notice and  
24 opportunity for comment, a separate fee to cover the cost of  
25 implementing and overseeing an emission disclosure system or  
26 emission portfolio standard, which fee shall be assessed based on an  
27 electric power supplier's or basic generation service provider's share  
28 of the retail electricity supply market. The board shall not impose a  
29 fee for the cost of implementing and overseeing a greenhouse gas  
30 emissions portfolio standard adopted pursuant to paragraph (2) of  
31 subsection c. of this section **],** the electric energy efficiency  
32 portfolio standard adopted pursuant to subsection g. of this section,  
33 or the gas energy efficiency portfolio standard adopted pursuant to  
34 subsection h. of this section **].**

35 g. The board **[may]** shall adopt, pursuant to the  
36 "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et  
37 seq.), an electric energy efficiency **[portfolio standard]** program in  
38 order to ensure investment in cost-effective energy efficiency  
39 measures, ensure universal access to energy efficiency measures,  
40 and serve the needs of low-income communities that **[may]** shall  
41 require each electric public utility to implement energy efficiency  
42 measures that reduce electricity usage in the State **[by 2020 to a**  
43 **level that is 20 percent below the usage projected by the board in**  
44 **the absence of such a standard]** pursuant to section 7 of P.L. , c.  
45 (C. ) (pending before the Legislature as this bill). Nothing in this  
46 section shall be construed to prevent an electric public utility from



1 meeting the requirements of this section by contracting with another  
2 entity for the performance of the requirements.

3 h. The board **【may】** shall adopt, pursuant to the  
4 "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et  
5 seq.), a gas energy efficiency **【portfolio standard】** program in order  
6 to ensure investment in cost-effective energy efficiency measures,  
7 ensure universal access to energy efficiency measures, and serve the  
8 needs of low-income communities that **【may】** shall require each gas  
9 public utility to implement energy efficiency measures that reduce  
10 natural gas usage **【for heating】** in the State **【by 2020 to a level that**  
11 **is 20 percent below the usage projected by the board in the absence**  
12 **of such a standard】** pursuant to section 7 of P.L.     , c. (C. )  
13 (pending before the Legislature as this bill). Nothing in this section  
14 shall be construed to prevent a gas public utility from meeting the  
15 requirements of this section by contracting with another entity for  
16 the performance of the requirements.

17 i. After the board establishes a schedule of solar kilowatt-hour  
18 sale or purchase requirements pursuant to paragraph (3) of  
19 subsection d. of this section, the board may initiate subsequent  
20 proceedings and adopt, after appropriate notice and opportunity for  
21 public comment and public hearing, increased minimum solar  
22 kilowatt-hour sale or purchase requirements, provided that the  
23 board shall not reduce previously established minimum solar  
24 kilowatt-hour sale or purchase requirements, or otherwise impose  
25 constraints that reduce the requirements by any means.

26 j. The board shall determine an appropriate level of solar  
27 alternative compliance payment, and permit each supplier or  
28 provider to submit an SACP to comply with the solar electric  
29 generation requirements of paragraph (3) of subsection d. of this  
30 section. The value of the SACP for each Energy Year, for Energy  
31 Years 2014 through **【2028】** 2033 per megawatt hour from solar  
32 electric generation required pursuant to this section, shall be:

33	EY 2014	\$339
34	EY 2015	\$331
35	EY 2016	\$323
36	EY 2017	\$315
37	EY 2018	\$308
38	EY 2019	<b>【\$300】</b> <u>\$268</u>
39	EY 2020	<b>【\$293】</b> <u>\$258</u>
40	EY 2021	<b>【\$286】</b> <u>\$248</u>
41	EY 2022	<b>【\$279】</b> <u>\$238</u>
42	EY 2023	<b>【\$272】</b> <u>\$228</u>
43	EY 2024	<b>【\$266】</b> <u>\$218</u>
44	EY 2025	<b>【\$260】</b> <u>\$208</u>
45	EY 2026	<b>【\$253】</b> <u>\$198</u>
46	EY 2027	<b>【\$250】</b> <u>\$188</u>

1	EY 2028	<del>[\$239]</del> <u>\$178</u>
2	<u>EY 2029</u>	<u>\$168</u>
3	<u>EY 2030</u>	<u>\$158</u>
4	<u>EY 2031</u>	<u>\$148</u>
5	<u>EY 2032</u>	<u>\$138</u>
6	<u>EY 2033</u>	<u>\$128.</u>

7 The board may initiate subsequent proceedings and adopt, after  
8 appropriate notice and opportunity for public comment and public  
9 hearing, an increase in solar alternative compliance payments,  
10 provided that the board shall not reduce previously established  
11 levels of solar alternative compliance payments, nor shall the board  
12 provide relief from the obligation of payment of the SACP by the  
13 electric power suppliers or basic generation service providers in any  
14 form. Any SACP payments collected shall be refunded directly to  
15 the ratepayers by the electric public utilities.

16 k. The board may allow electric public utilities to offer long-  
17 term contracts through a competitive process, direct electric public  
18 utility investment and other means of financing, including but not  
19 limited to loans, for the purchase of SRECs and the resale of SRECs  
20 to suppliers or providers or others, provided that after such  
21 contracts have been approved by the board, the board's approvals  
22 shall not be modified by subsequent board orders. If the board  
23 allows the offering of contracts pursuant to this subsection, the  
24 board may establish a process, after hearing, and opportunity for  
25 public comment, to provide that a designated segment of the  
26 contracts approved pursuant to this subsection shall be contracts  
27 involving solar electric power generation facility projects with a  
28 capacity of up to 250 kilowatts.

29 1. The board shall implement its responsibilities under the  
30 provisions of this section in such a manner as to:

31 (1) place greater reliance on competitive markets, with the  
32 explicit goal of encouraging and ensuring the emergence of new  
33 entrants that can foster innovations and price competition;

34 (2) maintain adequate regulatory authority over non-competitive  
35 public utility services;

36 (3) consider alternative forms of regulation in order to address  
37 changes in the technology and structure of electric public utilities;

38 (4) promote energy efficiency and Class I renewable energy  
39 market development, taking into consideration environmental  
40 benefits and market barriers;

41 (5) make energy services more affordable for low and moderate  
42 income customers;

43 (6) attempt to transform the renewable energy market into one  
44 that can move forward without subsidies from the State or public  
45 utilities;

46 (7) achieve the goals put forth under the renewable energy  
47 portfolio standards;

48 (8) promote the lowest cost to ratepayers; and

1 (9) allow all market segments to participate.

2 m. The board shall ensure the availability of financial incentives  
3 under its jurisdiction, including, but not limited to, long-term  
4 contracts, loans, SRECs, or other financial support, to ensure  
5 market diversity, competition, and appropriate coverage across all  
6 ratepayer segments, including, but not limited to, residential,  
7 commercial, industrial, non-profit, farms, schools, and public entity  
8 customers.

9 n. For projects which are owned, or directly invested in, by a  
10 public utility pursuant to section 13 of P.L.2007, c.340 (C.48:3-  
11 98.1), the board shall determine the number of SRECs with which  
12 such projects shall be credited; and in determining such number the  
13 board shall ensure that the market for SRECs does not detrimentally  
14 affect the development of non-utility solar projects and shall  
15 consider how its determination may impact the ratepayers.

16 o. The board, in consultation with the Department of  
17 Environmental Protection, electric public utilities, the Division of  
18 Rate Counsel in, but not of, the Department of the Treasury,  
19 affected members of the solar energy industry, and relevant  
20 stakeholders, shall periodically consider increasing the renewable  
21 energy portfolio standards beyond the minimum amounts set forth  
22 in subsection d. of this section, taking into account the cost impacts  
23 and public benefits of such increases including, but not limited to:

24 (1) reductions in air pollution, water pollution, land disturbance,  
25 and greenhouse gas emissions;

26 (2) reductions in peak demand for electricity and natural gas,  
27 and the overall impact on the costs to customers of electricity and  
28 natural gas;

29 (3) increases in renewable energy development, manufacturing,  
30 investment, and job creation opportunities in this State; and

31 (4) reductions in State and national dependence on the use of  
32 fossil fuels.

33 p. Class I RECs and ORECs shall be eligible for use in  
34 renewable energy portfolio standards compliance in the energy year  
35 in which they are generated, and for the following two energy years.  
36 SRECs shall be eligible for use in renewable energy portfolio  
37 standards compliance in the energy year in which they are  
38 generated, and for the following four energy years.

39 q. (1) During the energy years of 2014, 2015, and 2016, a solar  
40 electric power generation facility project that is not: (a) net  
41 metered; (b) an on-site generation facility; (c) qualified for net  
42 metering aggregation; or (d) certified as being located on a  
43 brownfield, on an area of historic fill or on a properly closed  
44 sanitary landfill facility, as provided pursuant to subsection t. of this  
45 section may file an application with the board for approval of a  
46 designation pursuant to this subsection that the facility is connected  
47 to the distribution system. An application filed pursuant to this  
48 subsection shall include a notice escrow of \$40,000 per megawatt of

1 the proposed capacity of the facility. The board shall approve the  
2 designation if: the facility has filed a notice in writing with the  
3 board applying for designation pursuant to this subsection, together  
4 with the notice escrow; and the capacity of the facility, when added  
5 to the capacity of other facilities that have been previously  
6 approved for designation prior to the facility's filing under this  
7 subsection, does not exceed 80 megawatts in the aggregate for each  
8 year. The capacity of any one solar electric power supply project  
9 approved pursuant to this subsection shall not exceed 10 megawatts.  
10 No more than 90 days after its receipt of a completed application  
11 for designation pursuant to this subsection, the board shall approve,  
12 conditionally approve, or disapprove the application. The notice  
13 escrow shall be reimbursed to the facility in full upon either  
14 rejection by the board or the facility entering commercial operation,  
15 or shall be forfeited to the State if the facility is designated pursuant  
16 to this subsection but does not enter commercial operation pursuant  
17 to paragraph (2) of this subsection.

18 (2) If the proposed solar electric power generation facility does  
19 not commence commercial operations within two years following  
20 the date of the designation by the board pursuant to this subsection,  
21 the designation of the facility shall be deemed to be null and void,  
22 and the facility shall not be considered connected to the distribution  
23 system thereafter.

24 (3) Notwithstanding the provisions of paragraph (2) of this  
25 subsection, a solar electric power generation facility project that as  
26 of May 31, 2017 was designated as "connected to the distribution  
27 system," but failed to commence commercial operations as of that  
28 date, shall maintain that designation if it commences commercial  
29 operations by May 31, 2018.

30 r. (1) For all proposed solar electric power generation facility  
31 projects except for those solar electric power generation facility  
32 projects approved pursuant to subsection q. of this section, and for  
33 all projects proposed in each energy year following energy year  
34 2016, a] energy year 2019 and energy year 2020, the board may  
35 approve projects for up to 50 megawatts annually in auctioned  
36 capacity in two auctions per year as long as the board is accepting  
37 applications. If the board approves projects for less than 50  
38 megawatts in energy year 2019 or less than 50 megawatts in energy  
39 year 2020, the difference in each year shall be carried over into the  
40 successive energy year until 100 megawatts of auctioned capacity  
41 has been approved by the board pursuant to this subsection. A  
42 proposed solar electric power generation facility that is neither net  
43 metered nor an on-site generation facility, may be considered  
44 "connected to the distribution system" only upon designation as  
45 such by the board, after notice to the public and opportunity for  
46 public comment or hearing. A proposed solar power electric  
47 generation facility seeking board designation as "connected to the  
48 distribution system" shall submit an application to the board that

1 includes for the proposed facility: the nameplate capacity; the  
2 estimated energy and number of SRECs to be produced and sold per  
3 year; the estimated annual rate impact on ratepayers; the estimated  
4 capacity of the generator as defined by PJM for sale in the PJM  
5 capacity market; the point of interconnection; the total project  
6 acreage and location; the current land use designation of the  
7 property; the type of solar technology to be used; and such other  
8 information as the board shall require.

9 (2) The board shall approve the designation of the proposed  
10 solar power electric generation facility as "connected to the  
11 distribution system" if the board determines that:

12 (a) the SRECs forecasted to be produced by the facility do not  
13 have a detrimental impact on the SREC market or on the  
14 appropriate development of solar power in the State;

15 (b) the approval of the designation of the proposed facility  
16 would not significantly impact the preservation of open space in  
17 this State;

18 (c) the impact of the designation on electric rates and economic  
19 development is beneficial; and

20 (d) there will be no impingement on the ability of an electric  
21 public utility to maintain its property and equipment in such a  
22 condition as to enable it to provide safe, adequate, and proper  
23 service to each of its customers.

24 (3) The board shall act within 90 days of its receipt of a  
25 completed application for designation of a solar power electric  
26 generation facility as "connected to the distribution system," to  
27 either approve, conditionally approve, or disapprove the  
28 application. If the proposed solar electric power generation facility  
29 does not commence commercial operations within two years  
30 following the date of the designation by the board pursuant to this  
31 subsection, the designation of the facility as "connected to the  
32 distribution system" shall be deemed to be null and void, and the  
33 facility shall thereafter be considered not "connected to the  
34 distribution system."

35 s. In addition to any other requirements of P.L.1999, c.23 or  
36 any other law, rule, regulation or order, a solar electric power  
37 generation facility that is not net metered or an on-site generation  
38 facility and which is located on land that has been actively devoted  
39 to agricultural or horticultural use that is valued, assessed, and  
40 taxed pursuant to the "Farmland Assessment Act of 1964,"  
41 P.L.1964, c.48 (C.54:4-23.1 et seq.) at any time within the 10-year  
42 period prior to the effective date of P.L.2012, c.24, shall only be  
43 considered "connected to the distribution system" if (1) the board  
44 approves the facility's designation pursuant to subsection q. of this  
45 section; or (2) (a) PJM issued a System Impact Study for the facility  
46 on or before June 30, 2011, (b) the facility files a notice with the  
47 board within 60 days of the effective date of P.L.2012, c.24,  
48 indicating its intent to qualify under this subsection, and (c) the

1 facility has been approved as "connected to the distribution system"  
2 by the board. Nothing in this subsection shall limit the board's  
3 authority concerning the review and oversight of facilities, unless  
4 such facilities are exempt from such review as a result of having  
5 been approved pursuant to subsection q. of this section.

6 t. (1) No more than 180 days after the date of enactment of  
7 P.L.2012, c.24, the board shall, in consultation with the Department  
8 of Environmental Protection and the New Jersey Economic  
9 Development Authority, and, after notice and opportunity for public  
10 comment and public hearing, complete a proceeding to establish a  
11 program to provide SRECs to owners of solar electric power  
12 generation facility projects certified by the board, in consultation  
13 with the Department of Environmental Protection, as being located  
14 on a brownfield, on an area of historic fill or on a properly closed  
15 sanitary landfill facility, including those owned or operated by an  
16 electric public utility and approved pursuant to section 13 of  
17 P.L.2007, c.340 (C.48:3-98.1). Projects certified under this  
18 subsection shall be considered "connected to the distribution  
19 system", shall not require such designation by the board, and shall  
20 not be subject to board review required pursuant to subsections q.  
21 and r. of this section. Notwithstanding the provisions of section 3  
22 of P.L.1999, c.23 (C.48:3-51) or any other law, rule, regulation, or  
23 order to the contrary, for projects certified under this subsection, the  
24 board shall establish a financial incentive that is designed to  
25 supplement the SRECs generated by the facility in order to cover  
26 the additional cost of constructing and operating a solar electric  
27 power generation facility on a brownfield, on an area of historic fill  
28 or on a properly closed sanitary landfill facility. Any financial  
29 benefit realized in relation to a project owned or operated by an  
30 electric public utility and approved by the board pursuant to section  
31 13 of P.L.2007, c.340 (C.48:3-98.1), as a result of the provision of a  
32 financial incentive established by the board pursuant to this  
33 subsection, shall be credited to ratepayers. The issuance of SRECs  
34 for all solar electric power generation facility projects pursuant to  
35 this subsection shall be deemed "Board of Public Utilities financial  
36 assistance" as provided under section 1 of P.L.2009, c.89 (C.48:2-  
37 29.47).

38 (2) Notwithstanding the provisions of the "Spill Compensation  
39 and Control Act," P.L.1976, c.141 (C.58:10-23.11 et seq.) or any  
40 other law, rule, regulation, or order to the contrary, the board, in  
41 consultation with the Department of Environmental Protection, may  
42 find that a person who operates a solar electric power generation  
43 facility project that has commenced operation on or after the  
44 effective date of P.L.2012, c.24, which project is certified by the  
45 board, in consultation with the Department of Environmental  
46 Protection pursuant to paragraph (1) of this subsection, as being  
47 located on a brownfield for which a final remediation document has  
48 been issued, on an area of historic fill or on a properly closed

1 sanitary landfill facility, which projects shall include, but not be  
2 limited to projects located on a brownfield for which a final  
3 remediation document has been issued, on an area of historic fill or  
4 on a properly closed sanitary landfill facility owned or operated by  
5 an electric public utility and approved pursuant to section 13 of  
6 P.L.2007, c.340 (C.48:3-98.1), or a person who owns property  
7 acquired on or after the effective date of P.L.2012, c.24 on which  
8 such a solar electric power generation facility project is constructed  
9 and operated, shall not be liable for cleanup and removal costs to  
10 the Department of Environmental Protection or to any other person  
11 for the discharge of a hazardous substance provided that:

12 (a) the person acquired or leased the real property after the  
13 discharge of that hazardous substance at the real property;

14 (b) the person did not discharge the hazardous substance, is not  
15 in any way responsible for the hazardous substance, and is not a  
16 successor to the discharger or to any person in any way responsible  
17 for the hazardous substance or to anyone liable for cleanup and  
18 removal costs pursuant to section 8 of P.L.1976, c.141 (C.58:10-  
19 23.11g);

20 (c) the person, within 30 days after acquisition of the property,  
21 gave notice of the discharge to the Department of Environmental  
22 Protection in a manner the Department of Environmental Protection  
23 prescribes;

24 (d) the person does not disrupt or change, without prior written  
25 permission from the Department of Environmental Protection, any  
26 engineering or institutional control that is part of a remedial action  
27 for the contaminated site or any landfill closure or post-closure  
28 requirement;

29 (e) the person does not exacerbate the contamination at the  
30 property;

31 (f) the person does not interfere with any necessary remediation  
32 of the property;

33 (g) the person complies with any regulations and any permit the  
34 Department of Environmental Protection issues pursuant to section  
35 19 of P.L.2009, c.60 (C.58:10C-19) or paragraph (2) of subsection  
36 a. of section 6 of P.L.1970, c.39 (C.13:1E-6);

37 (h) with respect to an area of historic fill, the person has  
38 demonstrated pursuant to a preliminary assessment and site  
39 investigation, that hazardous substances have not been discharged;  
40 and

41 (i) with respect to a properly closed sanitary landfill facility, no  
42 person who owns or controls the facility receives, has received, or  
43 will receive, with respect to such facility, any funds from any post-  
44 closure escrow account established pursuant to section 10 of  
45 P.L.1981, c.306 (C.13:1E-109) for the closure and monitoring of  
46 the facility.

47 Only the person who is liable to clean up and remove the  
48 contamination pursuant to section 8 of P.L.1976, c.141 (C.58:10-

- 1 23.11g) and who does not have a defense to liability pursuant to  
2 subsection d. of that section shall be liable for cleanup and removal  
3 costs.
- 4 u. No more than 180 days after the date of enactment of  
5 P.L.2012, c.24, the board shall complete a proceeding to establish a  
6 registration program. The registration program shall require the  
7 owners of solar electric power generation facility projects  
8 connected to the distribution system to make periodic milestone  
9 filings with the board in a manner and at such times as determined  
10 by the board to provide full disclosure and transparency regarding  
11 the overall level of development and construction activity of those  
12 projects Statewide.
- 13 v. The issuance of SRECs for all solar electric power  
14 generation facility projects pursuant to this section, for projects  
15 connected to the distribution system with a capacity of one  
16 megawatt or greater, shall be deemed "Board of Public Utilities  
17 financial assistance" as provided pursuant to section 1 of P.L.2009,  
18 c.89 (C.48:2-29.47).
- 19 w. No more than 270 days after the date of enactment of  
20 P.L.2012, c.24, the board shall, after notice and opportunity for  
21 public comment and public hearing, complete a proceeding to  
22 consider whether to establish a program to provide, to owners of  
23 solar electric power generation facility projects certified by the  
24 board as being three megawatts or greater in capacity and being net  
25 metered, including facilities which are owned or operated by an  
26 electric public utility and approved by the board pursuant to section  
27 13 of P.L.2007, c.340 (C.48:3-98.1), a financial incentive that is  
28 designed to supplement the SRECs generated by the facility to  
29 further the goal of improving the economic competitiveness of  
30 commercial and industrial customers taking power from such  
31 projects. If the board determines to establish such a program  
32 pursuant to this subsection, the board may establish a financial  
33 incentive to provide that the board shall issue one SREC for no less  
34 than every 750 kilowatt-hours of solar energy generated by the  
35 certified projects. Any financial benefit realized in relation to a  
36 project owned or operated by an electric public utility and approved  
37 by the board pursuant to section 13 of P.L.2007, c.340 (C.48:3-  
38 98.1), as a result of the provisions of a financial incentive  
39 established by the board pursuant to this subsection, shall be  
40 credited to ratepayers.
- 41 x. Solar electric power generation facility projects that are  
42 located on an existing or proposed commercial, retail, industrial,  
43 municipal, professional, recreational, transit, commuter,  
44 entertainment complex, multi-use, or mixed-use parking lot with a  
45 capacity to park 350 or more vehicles where the area to be utilized  
46 for the facility is paved, or an impervious surface may be owned or  
47 operated by an electric public utility and may be approved by the



1 board pursuant to section 13 of P.L.2007, c.340 (C.48:3-98.1).  
2 (cf: P.L.2017, c.139, s.1)

3  
4 7. (New section) a. No later than one year after the date of  
5 enactment of P.L. , c. (C. ) (pending before the Legislature as  
6 this bill), the board shall require each electric public utility and gas  
7 public utility to reduce the use of electricity, or natural gas, as  
8 appropriate, within its territory, by its customers, below what would  
9 have otherwise been used. For the purposes of this section, gas  
10 public utilities shall reduce the use of natural gas for residential,  
11 commercial, and industrial uses, but shall not be required to include  
12 a reduction in natural gas used for distributed energy resources such  
13 as combined heat and power.

14 Each electric public utility shall be required to achieve annual  
15 reductions in the use of electricity of two percent of the average  
16 annual usage in the prior three years within five years of  
17 implementation of the electric energy efficiency programs. Each  
18 natural gas public utility shall be required to achieve annual  
19 reductions in the use of natural gas of 0.75 percent of the average  
20 annual usage in the prior three years within five years of  
21 implementation of the gas energy efficiency programs. The amount  
22 of reduction mandated by the board that exceeds two percent of the  
23 average annual usage for electricity and 0.75 percent of the average  
24 annual usage for natural gas for the prior three years shall be  
25 determined pursuant to the study conducted pursuant to subsection  
26 b. of this section until the reduction in energy usage reaches the full  
27 economic, cost-effective potential in each service territory, as  
28 determined by the board.

29 b. No later than one year after the date of enactment of P.L. ,  
30 c. (C. ) (pending before the Legislature as this bill), the board  
31 shall conduct and complete a study to determine the energy savings  
32 targets for full economic, cost-effective potential for electricity  
33 usage reduction or natural gas usage reduction as well as the  
34 potential for peak demand reduction by the customers of each  
35 electric public utility and gas public utility and the timeframe for  
36 achieving the reductions. The energy savings targets for each  
37 electric public utility and gas public utility shall be reviewed every  
38 three years to determine if the targets should be adjusted. The  
39 board, in conducting the study, shall accept comments and  
40 suggestions from interested parties.

41 c. No later than one year after the date of enactment of P.L. ,  
42 c. (C. ) (pending before the Legislature as this bill), the board  
43 shall adopt quantitative performance indicators pursuant to the  
44 "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et  
45 seq.) for each electric public utility and gas public utility, which  
46 shall establish reasonably achievable targets for energy reductions  
47 and peak demand reductions and take into account the public  
48 utility's energy efficiency measures and other non-utility energy

1 efficiency measures including measures to support the development  
2 and implementation of building code changes, appliance efficiency  
3 standards, the Clean Energy program, and any other State-  
4 sponsored energy efficiency or peak reduction programs, and public  
5 utility energy efficiency programs that exist on the date of  
6 enactment of P.L. , c. (C. ) (pending before the Legislature as  
7 this bill). In establishing quantitative performance indicators, the  
8 board shall use a methodology that incorporates weather, economic  
9 factors, customer growth, outage-adjusted efficiency factors, and  
10 any other factors to ensure that the public utility's incentives or  
11 penalties determined pursuant to subsection e. of this section and  
12 section 13 of P.L.2007, c.340 (C.48:3-98.1) are based upon  
13 performance, and take into account the growth in the use of electric  
14 vehicles, microgrids, and distributed energy resources. In  
15 establishing quantitative performance indicators, the board shall  
16 also consider each public utility's customer class mix and potential  
17 for adoption by each of those customer classes of energy efficiency  
18 programs offered by the public utility or that are otherwise  
19 available. The board shall review each quantitative performance  
20 indicator every three years. A public utility may apply all energy  
21 savings attributable to programs available to its customers,  
22 including demand side management programs, other measures  
23 implemented by the public utility, non-utility programs, including  
24 those available under energy efficiency programs in existence on  
25 the date of enactment of P.L. c. (C. ) (pending before the  
26 Legislature as this bill), building codes, and other efficiency  
27 standards in effect, to achieve the targets established in this section.

28 d. (1) Each electric public utility and gas public utility shall  
29 establish energy efficiency programs and peak demand reduction  
30 programs to be approved by the board no later than 30 days prior to  
31 the start of the energy year in order to comply with the requirements  
32 of this section. The energy efficiency programs and peak demand  
33 reduction programs adopted by each public utility shall comply with  
34 quantitative performance indicators adopted by the board pursuant  
35 to subsection c. of this section.

36 (2) The energy efficiency programs and peak demand reduction  
37 programs shall have a benefit-to-cost ratio greater than or equal to  
38 1.0 at the portfolio level, considering both economic and  
39 environmental factors, and shall be subject to review during the  
40 stakeholder process established by the board pursuant to subsection  
41 f. of this section. The methodology, assumptions, and data used to  
42 perform the benefit-to-cost analysis shall be based upon publicly  
43 available sources and shall be subject to stakeholder review and  
44 comment. A program may have a benefit-to-cost ratio of less than  
45 1.0 but may be appropriate to include within the portfolio if the  
46 implementation of the program is in the public interest, including,  
47 but not limited to, benefitting low-income customers or promoting  
48 emerging energy efficiency technologies.

1 (3) Each electric public utility and gas public utility shall file  
2 with the board implementation and reporting plans as well as  
3 evaluation, measurement, and verification strategies to determine  
4 the energy reductions and peak demand reductions achieved by the  
5 energy efficiency programs and peak demand reduction programs  
6 approved pursuant to this section. The filings shall include details  
7 of expenditures made by the public utility and the resultant  
8 reduction in energy usage and peak demand. The board shall  
9 determine the appropriate level of reasonable and prudent costs for  
10 each energy efficiency and peak demand reduction program.

11 e. (1) Each electric public utility and gas public utility shall  
12 file an annual petition with the board to demonstrate compliance  
13 with the energy efficiency and peak demand reduction programs,  
14 compliance with the targets established pursuant to the quantitative  
15 performance indicators, and for cost recovery of the programs,  
16 including any performance incentives or penalties, pursuant to  
17 section 13 of P.L.2007, c.340 (C.48:3-98.1). Each electric public  
18 utility and gas public utility shall file annually with the board a  
19 petition to recover on a full and current basis through a surcharge  
20 all reasonable and prudent costs incurred as a result of energy  
21 efficiency programs and peak demand reduction programs required  
22 pursuant to this section, including but not limited to recovery of and  
23 on capital investment, and the revenue impact of sales losses  
24 resulting from implementation of the energy efficiency and peak  
25 demand reduction schedules, which shall be determined by the  
26 board pursuant to section 13 of P.L. 2007, c. 340 (C.48:3-98.1).

27 (2) If an electric public utility or gas public utility achieves the  
28 performance targets established in the quantitative performance  
29 indicator, the public utility shall receive an incentive as determined  
30 by the board through an accounting mechanism established pursuant  
31 to section 13 of P.L.2007, c.340 (C.48:3-98.1) for its energy  
32 efficiency measures and peak demand reduction measures for the  
33 following year. The incentive shall scale in a linear fashion to a  
34 maximum established by the board that reflects the extra value of  
35 achieving greater savings.

36 (3) If an electric public utility or gas public utility fails to  
37 achieve the reductions in its performance target established in the  
38 quantitative performance indicators, the public utility shall receive a  
39 penalty as determined by the board through an accounting  
40 mechanism established pursuant to section 13 of P.L.2007, c.340  
41 (C.48:3-98.1) for its energy efficiency measures and peak demand  
42 reduction measures for the following year. The penalty shall scale  
43 in a linear fashion to a maximum established by the board that  
44 reflects the extent of the failure to achieve the required savings.

45 (4) The adjustments made pursuant to this subsection may be  
46 made through adjustments of the electric public utility's or gas  
47 public utility's return on equity related to the energy efficiency or  
48 peak demand reduction programs only, or a specified dollar amount,

1 reflecting the incentive structure as established in this subsection.  
2 The adjustments shall not be included in a revenue or cost in any  
3 base rate filing and shall be adopted by the board pursuant to the  
4 "Administrative Procedure Act."

5 f. (1) The board shall establish a stakeholder process to  
6 evaluate the economically achievable energy efficiency and peak  
7 demand reduction requirements, rate adjustments, quantitative  
8 performance indicators, and the process for evaluating, measuring,  
9 and verifying energy reductions and peak demand reduction by the  
10 public utilities. As part of the stakeholder process, the board shall  
11 establish an independent advisory group to study the evaluation,  
12 measurement, and verification process for energy efficiency and  
13 peak demand reduction programs, which shall include  
14 representatives from the public utilities, the Division of Rate  
15 Counsel, and environmental and consumer organizations, to provide  
16 recommendations to the board for improvements to the programs.

17 (2) Each electric public utility and gas public utility shall  
18 conduct a demographic analysis as part of the stakeholder process  
19 to determine if all of its customers are able to participate fully in  
20 implementing energy efficiency measures, to identify market  
21 barriers that prevent such participation, and to make  
22 recommendations for measures to overcome such barriers. The  
23 public utility shall be entitled to full and timely recovery of the  
24 costs associated with this analysis.

25 g. For the purposes of this section, the board shall only  
26 consider usage for which public utility energy efficiency programs  
27 are applicable.

28

29 8. (New section) a. No later than one year after the date of  
30 enactment of P.L. , c. (C. ) (pending before the Legislature as  
31 this bill), the Board of Public Utilities shall direct each electric  
32 public utility in the State to undertake a study to determine the  
33 optimal voltage for use in their respective distribution systems,  
34 including a consideration of voltage optimization. An electric  
35 public utility shall be entitled to full and timely recovery of the  
36 costs associated with this analysis.

37 b. No later than five years after the date of enactment of P.L. ,  
38 c. (C. ) (pending before the Legislature as this bill), the board  
39 shall require the owner or operator of each commercial building  
40 over 25,000 square feet in the State to benchmark energy and water  
41 use for the prior calendar year using the United States  
42 Environmental Protection Agency's Portfolio Manager tool.

43

44 9. (New section) a. No later than 210 days after the date of  
45 enactment of P.L. , c. (C. ) (pending before the Legislature as  
46 this bill), the Board of Public Utilities shall adopt, pursuant to the  
47 "Administrative Procedure Act," P.L.1968, c.410 (C.52:14B-1 et  
48 seq.), rules and regulations establishing a "Community Solar

1 Energy Pilot Program” to permit customers of an electric public  
2 utility to participate in a solar energy project that is remotely  
3 located from their properties but is within their electric public  
4 utility service territory to allow for a credit to the customer's utility  
5 bill equal to the electricity generated that is attributed to the  
6 customer's participation in the solar energy project.

7 b. The rules and regulations developed by the board shall  
8 establish:

9 (1) a capacity limit for individual solar energy projects to a  
10 maximum of five megawatts per project;

11 (2) an annual capacity limit for all solar energy projects under  
12 the pilot program;

13 (3) geographic limitations for solar energy projects and  
14 participating customers;

15 (4) a minimum number of participating customers for each solar  
16 energy project;

17 (5) the value of the credit on each participating customer's bill;

18 (6) standards to limit the land use impact of a solar energy  
19 project as required in subsection r. of section 38 of P.L.1999, c.23  
20 (C.48:3-87);

21 (7) the provision of access to solar energy projects for low and  
22 moderate income customers;

23 (8) standards to ensure the ability of residential and commercial  
24 customers to participate in solar energy projects, including  
25 residential customers in multifamily housing;

26 (9) standards for connection to the distribution system of an  
27 electric public utility; and

28 (10) provisions to minimize impacts to the distribution system  
29 of an electric public utility.

30 c. The board shall make available on its Internet website  
31 information on solar energy projects whose owners are seeking  
32 participants.

33 d. The board shall establish standards and an application  
34 process for owners of solar energy projects who wish to be included  
35 in the Community Solar Energy Pilot Program. The standards for  
36 the Community Solar Energy Pilot Program shall include, but need  
37 not be limited to, a verification process to ensure that solar energy  
38 projects are producing an amount of energy that is greater than or  
39 equal to the amount of energy that is being credited to its  
40 participating customer's electric utility bills pursuant to subsection  
41 b. of this section, and consumer protection measures. Projects  
42 approved by the board shall have at least two participating  
43 customers.

44 The board may restrict qualified solar energy projects to those  
45 located on brownfields, landfills, areas designated in need of  
46 redevelopment, in underserved communities, or on commercial  
47 rooftops.

1 e. Subject to review by the board, an electric public utility shall  
2 be entitled to full and timely cost recovery for all costs incurred in  
3 implementation and compliance with this section.

4 f. No later than 36 months after the adoption of rules and  
5 regulations pursuant to subsection b. of this section, the board shall  
6 adopt rules and regulations, pursuant to the "Administrative  
7 Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.), to convert  
8 the Community Solar Energy Pilot Program to a permanent  
9 program. The board shall adopt rules and regulations for the  
10 permanent program that set forth standards for projects owned by  
11 electric public utilities, special purpose entities, and nonprofit  
12 entities. The rules and regulations shall also:

13 (1) limit the capacity of each solar energy project to a maximum  
14 of five megawatts;

15 (2) establish a goal for the development of at least 50 megawatts  
16 of solar energy projects per year, taking into account any changes to  
17 the SREC program;

18 (3) set geographic limitations for solar energy projects and  
19 participating customers;

20 (4) provide for a minimum number of participating customers  
21 for each solar energy project;

22 (5) require the provision of access to solar energy projects for  
23 low and moderate income customers;

24 (6) establish standards to ensure the ability of residential and  
25 commercial customers to participate in solar energy projects,  
26 including residential customers in multifamily housing;

27 (7) establish a method for determining the value of the credit on  
28 each participating customer's bill;

29 (8) establish timeframes for the credit available to the customer;

30 (9) establish standards and methods to verify solar electric  
31 energy generation on a monthly basis for a solar energy project;

32 (10) standards consistent with the land use provisions for solar  
33 energy projects as provided in subsections r., s., and t. of section 38  
34 of P.L.1999, c.23 (C.48:3-87);

35 (11) establish standards, fees, and uniform procedures for solar  
36 energy projects to be connected to the distribution system of an  
37 electric public utility;

38 (12) minimize impacts to the distribution system of an electric  
39 public utility;

40 (13) require monthly reporting requirements for the operators of  
41 solar energy projects to the electric public utility, project customers,  
42 and the board;

43 (14) require reporting by the electric public utility to the  
44 operator of a solar energy project on the value of credits to the  
45 participating customer's bills; and

46 (15) require transferability, portability, and buy-out provisions  
47 for customers who participate in community solar energy projects.

48 g. As used in this section:

1       “Solar energy project” means a system containing one or more  
2 solar panels and associated equipment.

3       “Solar panel” means an elevated panel or plate, or a canopy or  
4 array thereof, that captures and converts solar radiation to produce  
5 electric power, and is approved by the board to be included in the  
6 Community Solar Energy Pilot Program. “Solar power includes flat  
7 plate, focusing solar collectors, or photovoltaic solar cells and  
8 excludes the base or foundation of the panel, plate, canopy, or  
9 array.

10

11       10. (New section) a. No later than 120 days after the date of  
12 enactment of P.L. , c. (C. ) (pending before the Legislature as  
13 this bill), the board shall establish an application and approval  
14 process to certify public entities to act as a host customer for remote  
15 net metering generating capacity. A public entity certified to act as  
16 a host customer may allocate credits to other public entities within  
17 the same electric public utility service territory. A copy of the  
18 agreement between the public entity certified to act as a host  
19 customer and other public entities designated to receive credits shall  
20 be provided to the electric public utility before remote net metering  
21 credits may be applied to a customer bill. A public entity certified  
22 to act as a host customer may host a solar energy project with a  
23 capacity up to the total average usage of the electric public utility  
24 accounts for the host public entity customer.

25       b. The board shall establish a remote net metering application  
26 process to approve as the primary account holder a certified public  
27 entity that is the host customer and the other public entities  
28 designated to receive credits.

29       c. The board shall require the owner of a solar energy project  
30 to pay a certified public entity a pro-rated public sponsor fee of  
31 \$10,000 per megawatt, up to a 10-megawatt allowance for each  
32 public entity. The board shall require each participating customer  
33 to pay at least 50 percent of the societal benefits charge established  
34 pursuant to section 12 of P.L.1999, c.23 (C.48:3-60).

35

36       11. Section 6 of P.L.2010, c.57 (C.34:1B-209.4) is amended to  
37 read as follows:

38       6. a. (1) A business, upon application to and approval from the  
39 authority, shall be allowed a credit of 100 percent of its capital  
40 investment, made after the effective date of P.L.2010, c.57 (C.48:3-  
41 87.1 et al.) but prior to its submission of documentation pursuant to  
42 subsection c. of this section, in a qualified wind energy facility  
43 located within an eligible wind energy zone, pursuant to the  
44 restrictions and requirements of this section. To be eligible for any  
45 tax credits authorized under this section, a business shall  
46 demonstrate to the authority, at the time of application, that the  
47 State's financial support of the proposed capital investment in a  
48 qualified wind energy facility will yield a net positive benefit to the

1 State. The value of all credits approved by the authority pursuant to  
2 this section may be up to \$100,000,000, except as may be increased  
3 by the authority if the chief executive officer of the authority judges  
4 certain qualified offshore wind projects to be meritorious. Credits  
5 provided pursuant to this section shall not be applicable to the cap  
6 on the credits provided in section 3 of P.L.2007, c.346 (C.34:1B-  
7 209).

8 (2) (a) A business, other than a tenant eligible pursuant to  
9 subparagraph (b) of this paragraph, shall make or acquire capital  
10 investments totaling not less than \$50,000,000 in a qualified wind  
11 energy facility, at which the business, including tenants at the  
12 qualified wind energy facility, shall employ at least 300 new, full-  
13 time employees, to be eligible for a credit under this section. A  
14 business that acquires a qualified wind energy facility after the  
15 effective date of P.L.2010, c.57 (C.48:3-87.1 et al.) shall also be  
16 deemed to have acquired the capital investment made or acquired  
17 by the seller.

18 (b) A business that is a tenant in the qualified wind energy  
19 facility, the owner of which has made or acquired capital  
20 investments in the facility totaling more than \$50,000,000, shall  
21 occupy a leased area of the qualified wind energy facility that  
22 represents at least \$17,500,000 of the capital investment in the  
23 qualified wind energy facility at which at least 300 new, full-time  
24 employees in the aggregate are employed, to be eligible for a credit  
25 under this section. The amount of capital investment in a facility  
26 that a leased area represents shall be equal to that percentage of the  
27 owner's total capital investment in the facility that the percentage of  
28 net leasable area leased by the tenant is of the total net leasable area  
29 of the qualified business facility. Capital investments made by a  
30 tenant shall be deemed to be included in the calculation of the  
31 capital investment made or acquired by the owner, but only to the  
32 extent necessary to meet the owner's minimum capital investment of  
33 \$50,000,000. Capital investments made by a tenant and not  
34 allocated to meet the owner's minimum capital investment threshold  
35 of \$50,000,000 shall be added to the amount of capital investment  
36 represented by the tenant's leased area in the qualified wind energy  
37 facility.

38 (c) The calculation of the number of new, full-time employees  
39 required pursuant to subparagraphs (a) and (b) of this paragraph  
40 may include the number of new, full-time positions resulting from  
41 an equipment supply coordination agreement with equipment  
42 manufacturers, suppliers, installers and operators associated with  
43 the supply chain required to support the qualified wind energy  
44 facility.

45 For the purposes of this paragraph, "full time employee" shall  
46 not include an employee who is a resident of another state and  
47 whose income is not subject to the "New Jersey Gross Income Tax  
48 Act," N.J.S.54A:1-1 et seq., unless that state has entered into a



1 reciprocity agreement with the State of New Jersey, provided that  
2 any employee whose work is provided pursuant to a collective  
3 bargaining agreement with **the port district** a business in the wind  
4 energy zone may be included.

5 (3) A business shall not be allowed a tax credit pursuant to this  
6 section if the business **participates in** receives a business  
7 employment incentive grant pursuant to the "Business Employment  
8 Incentive Program Act," P.L.1996, c.26 (C.34:1B-124 et al.),  
9 relating to the same capital and employees that qualify the business  
10 for this credit, or if the business receives assistance pursuant to the  
11 "Business Retention and Relocation Assistance Act," P.L.1996, c.25  
12 (C.34:1B-112 et seq.). A business that is allowed a tax credit under  
13 this section shall not be eligible for incentives authorized pursuant  
14 to the "Municipal Rehabilitation and Economic Recovery Act,"  
15 P.L.2002, c.43 (C.52:27BBB-1 et al.).

16 (4) Full-time employment for an accounting or privilege period  
17 shall be determined as the average of the monthly full-time  
18 employment for the period.

19 b. A business shall apply for the credit by **August 1, 2016**  
20 July 1, 2024, and a business shall submit its documentation for  
21 approval of its credit amount by **August 1, 2019** July 1, 2027.

22 c. The credit allowed pursuant to this section shall be  
23 administered in accordance with the provisions of subsection c. of  
24 section 3 of P.L.2007, c.346 (C.34:1B-209) and section 33 of  
25 P.L.2009, c.90 (C.34:1B-209.1), except that all references therein to  
26 "qualified business facility" shall be deemed to refer to "qualified  
27 wind energy facility," as that term is defined in subsection f. of this  
28 section.

29 d. The amount of the credit allowed pursuant to this section  
30 shall, except as otherwise provided, be equal to the capital  
31 investment made by the business, or the capital investment  
32 represented by the **business'** business's leased area, and shall be  
33 taken over a 10-year period, at the rate of one-tenth of the total  
34 amount of the **business'** business's credit for each tax accounting  
35 or privilege period of the business, beginning with the tax period in  
36 which the business is first approved by the authority as having met  
37 the investment capital and employment qualifications, subject to  
38 any disqualification as determined by annual review by the  
39 authority. In conducting its annual review, the authority may  
40 require a business to submit any information determined by the  
41 authority to be necessary and relevant to its review. The credit  
42 amount for any tax period ending after the date **eight** 18 years  
43 after the effective date of P.L.2007, c.346 (C.34:1B-207 et seq.)  
44 during which the documentation of a **business'** business's credit  
45 amount remains unapproved shall be forfeited, although credit  
46 amounts for the remainder of the years of the 10-year credit period  
47 shall remain available. The amount of the credit allowed for a tax

1 period to a business that is a tenant in a qualified wind energy  
2 facility shall not exceed the **business'** business's total lease  
3 payments for occupancy of the qualified wind energy facility for the  
4 tax period.

5 e. The authority shall adopt rules **[in accordance with]** and  
6 regulations pursuant to the "Administrative Procedure Act,"  
7 P.L.1968, c.410 (C.52:14B-1 et seq.) as are necessary to implement  
8 this section, including, but not limited to: examples of and the  
9 determination of capital investment; the nature of businesses and  
10 employment positions constituting and participating in an  
11 equipment supply coordination agreement; a determination of the  
12 types of businesses that may be eligible and expenses that may  
13 constitute capital improvements; the promulgation of procedures  
14 and forms necessary to apply for a credit; and provisions for  
15 applicants to be charged an initial application fee, and ongoing  
16 service fees, to cover the administrative costs related to the credit.

17 The rules and regulations established by the authority pursuant to  
18 this subsection shall be effective immediately upon filing with the  
19 Office of Administrative Law and shall be effective for a period not  
20 to exceed 12 months and may, thereafter, be amended, adopted or  
21 readopted in accordance with the provisions of the "Administrative  
22 Procedure Act," P.L.1968, c.410 (C.52:14B-1 et seq.).

23 f. As used in this section: the terms "authority," "business,"  
24 and "capital investment" shall have the same meanings as defined in  
25 section 2 of the "Urban Transit Hub Tax Credit Act," P.L.2007,  
26 c.346 (C.34:1B-208), except that all references therein to "qualified  
27 business facility" shall be deemed to refer to "qualified wind energy  
28 facility" as defined in this subsection.

29 In addition, as used in this section:

30 "Equipment supply coordination agreement" means an agreement  
31 between a business and equipment manufacturer, supplier, installer,  
32 and operator that supports a qualified offshore wind project, or  
33 other wind energy project as determined by the authority, and that  
34 indicates the number of new, full-time jobs to be created by the  
35 agreement participants towards the employment requirement as set  
36 forth in paragraph (2) of subsection a. of this section.

37 "Qualified offshore wind project" **[means]** shall have the same  
38 meaning as **[the term is defined]** provided in section 3 of P.L.1999,  
39 c.23 (C.48:3-51).

40 "Qualified wind energy facility" means any building, complex of  
41 buildings, or structural components of buildings, including water  
42 access infrastructure, and all machinery and equipment used in the  
43 manufacturing, assembly, development or administration of  
44 component parts that support the development and operation of a  
45 qualified offshore wind project, or other wind energy project as  
46 determined by the authority, and that are located in a wind energy  
47 zone.

1 "Wind energy zone" means property located in the South Jersey  
2 Port District established pursuant to "The South Jersey Port  
3 Corporation Act," P.L.1968, c.60 (C.12:11A-1 et seq.).  
4 (cf: P.L.2013, c.161, s.25)

5  
6 12. (New section) The Department of Labor and Workforce  
7 Development shall establish job training programs for those who  
8 work in manufacturing and servicing of offshore wind energy  
9 equipment through Workforce Investment Boards, county colleges,  
10 and other appropriate institutions. The department shall develop  
11 training curricula in consultation with the equipment manufacturers.

12  
13 13. (New section) If any provision of P.L. , c. (C. )  
14 (pending before the Legislature as this bill) or its application to any  
15 person or circumstance is held invalid or unconstitutional, that  
16 judgment or decision shall not affect other provisions or  
17 applications of P.L. , c. (C. ) (pending before the Legislature as  
18 this bill) which can be given effect without the invalid or  
19 unconstitutional provision or application, and to this end the  
20 provisions of this act are severable.

21  
22 14. This act shall take effect immediately.