AN ACT

Amending the act of November 30, 2004 (P.L.1672, No.213), entitled, "An act providing for the sale of electric energy 2 generated from renewable and environmentally beneficial 3 sources, for the acquisition of electric energy generated 4 from renewable and environmentally beneficial sources by 5 electric distribution and supply companies and for the powers 6 and duties of the Pennsylvania Public Utility Commission," 7 further providing for definitions and for alternative energy 9 portfolio standards, providing for solar photovoltaic technology requirements, for contract requirements for solar 10 photovoltaic energy system sources, for renewable energy 11 storage report, for energy storage deployment targets and for 12 contracts for solar photovoltaic technologies by Commonwealth 13 agencies and further providing for portfolio requirements in 14 other states; and making a related repeal. 15

- 16 The General Assembly of the Commonwealth of Pennsylvania
- 17 hereby enacts as follows:
- 18 Section 1. The definition of "reporting period" in section 2
- 19 of the act of November 30, 2004 (P.L.1672, No.213), known as the
- 20 Alternative Energy Portfolio Standards Act, is amended and the
- 21 section is amended by adding definitions to read:
- 22 Section 2. Definitions.
- 23 The following words and phrases when used in this act shall
- 24 have the meanings given to them in this section unless the

- 1 context clearly indicates otherwise:
- 2 * * *
- 3 "Deploy" or "deployment." To install a renewable energy
- 4 storage system through a variety of mechanisms, including
- 5 utility procurement, customer installation methods or other
- 6 processes.
- 7 * * *
- 8 "Renewable energy storage system." A commercially available
- 9 technology, including, but not limited to, any electrochemical,
- 10 thermal and electromechanical technology, that is capable of
- 11 absorbing and storing electrical energy for a period of time for
- 12 use at a later time, with all of the following characteristics:
- 13 (1) The system is co-located behind the meter with a
- 14 Tier I alternative energy source or behind the point of
- interconnection of a Tier I alternative energy source.
- 16 (2) The system is owned or operated by any of the
- 17 following:
- 18 <u>(i) A customer-generator.</u>
- 19 (ii) An electric generation supplier.
- 20 (iii) An electric distribution company.
- 21 (iv) A third party that is jointly owned by two or
- 22 more entities specified under subparagraphs (i), (ii) and
- 23 <u>(iii)</u>.
- 24 (3) The system is able to demonstrate that the energy
- 25 the system discharges at all hours in a given reporting year
- 26 comes from the storage of electrical energy produced by the
- 27 co-located Tier I alternative energy source.
- 28 ["Reporting period."] "Reporting period or reporting year."
- 29 The 12-month period from June 1 through May 31. A reporting year
- 30 shall be numbered according to the calendar year in which it

- 1 begins and ends.
- 2 * * *
- 3 Section 2. Section 3(a)(3), (b), (f) and (g)(2) of the act
- 4 are amended and the section is amended by adding a subsection to
 - 5 read:

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- 6 Section 3. Alternative energy portfolio standards.
- 7 (a) General compliance and cost recovery.--
- 8 * * *
- 9 (3) All costs for:
 - (i) the purchase of electricity generated from alternative energy sources, including the costs of the regional transmission organization, in excess of the regional transmission organization real-time locational marginal pricing, or its successor, at the delivery point of the alternative energy source for the electrical production of the alternative energy sources; and
- 17 (ii) payments for alternative energy credits, in both cases that are voluntarily acquired by an electric 18 distribution company during the cost recovery period on 19 20 behalf of its customers shall be deferred as a regulatory 21 asset by the electric distribution company and fully 22 recovered, with a return on the unamortized balance, 23 pursuant to an automatic energy adjustment clause under 66 Pa.C.S. § 1307 (relating to sliding scale of rates; 24 25 adjustments) as a cost of generation supply under 66 26 Pa.C.S. § 2807 (relating to duties of electric 27 distribution companies) in the first year after the expiration of its cost-recovery period. After the cost-28 29 recovery period, any direct or indirect costs for the 30 purchase by electric distribution companies of resources

1 to comply with this section, including, but not limited 2 to, the purchase of electricity generated from 3 alternative energy sources, payments for alternative 4 energy credits, cost of credits banked, payments to any 5 third party administrators for performance under this act 6 and costs levied by a regional transmission organization 7 to ensure that alternative energy sources are reliable, 8 shall be recovered on a full and current basis pursuant 9 to an automatic energy adjustment clause under 66 Pa.C.S. 10 § 1307 as a cost of generation supply under 66 Pa.C.S. § 11 2807.

- 12 (b) Tier I and solar photovoltaic shares <u>through the 15th</u>
 13 <u>reporting year.--</u>
- 14 Two years after the effective date of this act, at 15 least 1.5% of the electric energy sold by an electric 16 distribution company or electric generation supplier to retail electric customers in this Commonwealth shall be 17 18 generated from Tier I alternative energy sources. Except as 19 provided in this section, the minimum percentage of electric 20 energy required to be sold to retail electric customers from 21 alternative energy sources shall increase to 2% three years 22 after the effective date of this act. The minimum percentage of electric energy required to be sold to retail electric 2.3 24 customers from alternative energy sources shall increase by 25 at least 0.5% each year so that at least 8% of the electric 26 energy sold by an electric distribution company or electric 27 generation supplier to retail electric customers in that 28 certificated territory in the 15th reporting year after the 29 effective date of this subsection is sold from Tier I 30 alternative energy resources.

1	(2) [The] Through the 15th reporting year ending May 31,
2	2021, the total percentage of the electric energy sold by an
3	electric distribution company or electric generation supplier
4	to retail electric customers in this Commonwealth that must
5	be sold from solar photovoltaic technologies is:
6	(i) 0.0013% for June 1, 2006, through May 31, 2007.
7	(ii) 0.0030% for June 1, 2007, through May 31, 2008.
8	(iii) 0.0063% for June 1, 2008, through May 31,
9	2009.
10	(iv) 0.0120% for June 1, 2009, through May 31, 2010.
11	(v) 0.0203% for June 1, 2010, through May 31, 2011.
12	(vi) 0.0325% for June 1, 2011, through May 31, 2012.
13	(vii) 0.0510% for June 1, 2012, through May 31,
14	2013.
15	(viii) 0.0840% for June 1, 2013, through May 31,
16	2014.
17	(ix) 0.1440% for June 1, 2014, through May 31, 2015.
18	(x) 0.2500% for June 1, 2015, through May 31, 2016.
19	(xi) 0.2933% for June 1, 2016, through May 31, 2017.
20	(xii) 0.3400% for June 1, 2017, through May 31,
21	2018.
22	(xiii) 0.3900% for June 1, 2018, through May 31,
23	2019.
24	(xiv) 0.4433% for June 1, 2019, through May 31,
25	2020.
26	(xv) 0.5000% for June 1, 2020, [and thereafter.]
27	through May 31, 2021.
28	(3) Upon commencement of the beginning of the 6th
29	reporting year, the commission shall undertake a review of
30	the compliance by electric distribution companies and

Т	electric generation suppliers with the requirements of this
2	act. The review shall also include the status of alternative
3	energy technologies within this Commonwealth and the capacity
4	to add additional alternative energy resources. [The
5	commission shall use the results of this review to recommend
6	to the General Assembly additional compliance goals beyond
7	year [15.] The commission shall work with the department in
8	evaluating the future alternative energy resource potential.
9	(b.1) Tier I and solar photovoltaic shares beginning in the
LO	16th reporting year
1	(1) Each electric distribution company and electric
12	generation supplier shall purchase, at a minimum, an amount
L3	of Tier I alternative energy credits equal to the percentage
4	of electric energy required to be sold by an electric
-5	distribution company or electric generation supplier to
.6	retail electric customers from Tier I alternative energy
.7	sources for that reporting year and as provided under this
-8	subsection. Beginning in the 16th reporting year commencing
_9	on June 1, 2021, the minimum percentage of electric energy
20	required to be sold by an electric distribution company or
21	electric generation supplier to retail electric customers in
22	this Commonwealth from Tier I alternative energy sources for
23	<pre>each reporting year is:</pre>
24	(i) 10.444% for June 1, 2021, through May 31, 2022.
25	(ii) 12.888% for June 1, 2022, through May 31, 2023.
26	(iii) 15.332% for June 1, 2023, through May 31,
27	<u>2024.</u>
82	(iv) 17.776% for June 1, 2024, through May 31, 2025.
29	(v) 20.220% for June 1, 2025, through May 31, 2026.
2 ((wi) 22 664% for Tune 1 2026 through May 21 2027

Т		(V11) 25.108% for June 1, 2027, through May 31,
2		2028.
3		(viii) 27.552% for June 1, 2028, through May 31,
4		<u>2029.</u>
5		(ix) 30% for June 1, 2029, through May 31, 2030, and
6		thereafter.
7		(2) (i) Beginning in the 16th reporting year commencing
8		on June 1, 2021, the minimum percentage of the electric
9	•	energy sold by an electric distribution company or
10		electric generation supplier to retail electric customers
11		in this Commonwealth that must be sold from solar
12		photovoltaic technologies that are owned and operated by
13		<pre>customer-qenerators is:</pre>
14		(A) 0.65% for June 1, 2021, through May 31,
15		<u>2022.</u>
16		(B) 0.82% for June 1, 2022, through May 31,
17		<u>2023.</u>
18		(C) 0.98% for June 1, 2023, through May 31,
19		<u>2024.</u>
20		(D) 1.13% for June 1, 2024, through May 31,
21		<u>2025.</u>
22		(E) 1.30% for June 1, 2025, through May 31,
23		<u>2026.</u>
24		(F) 1.5% for June 1, 2026, through May 31, 2027.
25		(G) 1.78% for June 1, 2027, through May 31,
26		<u>2028.</u>
27	/	(H) 2.11% for June 1, 2028, through May 31,
28		<u>2029.</u>
29		(I) 2.5% for June 1, 2029, through May 31, 2030,
30		and thereafter.

1	(ii) For purposes of the requirements under
2	subparagraph (i), solar photovoltaic technologies that
3	are owned and operated by customer-generators shall
4	include any of the following:
5	(A) Solar photovoltaic technologies that were
6	certified before or on May 31, 2021, under subsection
7	(b)(2) and qualify to generate solar alternative
8	energy credits in accordance with section 3.1.
9	(B) Solar photovoltaic technologies that qualify
10	as customer-generators certified under subsection (b)
11	<u>(2).</u>
12	(3) Beginning in the 16th reporting year commencing on
13	June 1, 2021, and each reporting year thereafter, a solar
14	photovoltaic system that is certified before or on May 31,
15	2021, provided the system meets the requirements under
16	section 3.1, shall be included in the percentage of the
17	required solar photovoltaic energy systems owned and operated
1.8	by customer-generators under paragraph (2).
19	(4) A solar photovoltaic energy system owned and
20	operated by a customer-generator in accordance with paragraph
21	(2) shall remain eligible to receive solar alternative energy
22	credits for no more than 15 years beginning on June 1, 2021,
23	or 15 years beginning on the date of the solar photovoltaic
24	energy system's certification if the certification occurs
25	after June 1, 2021. Upon expiration of the 15-year period
26	specified under this paragraph, the solar photovoltaic energy
27	system shall be eligible for alternative energy credits
28	provided for Tier I alternative energy sources under
29	paragraph (1).
30	(5) Beginning in the 16th reporting year commencing on

4	oune 1, 2021, the minimum percentage of the electric energy
2	sold by an electric distribution company or electric
3	generation supplier to retail electric customers in this
4	Commonwealth that must be sold from solar photovoltaic
5	technologies from non-customer-generators is:
6	(i) 0.94% for June 1, 2021, through May 31, 2022.
7	(ii) 1.88% for June 1, 2022, through May 31, 2023.
8	(iii) 2.81% for June 1, 2023, through May 31, 2024.
9	(iv) 3.75% for June 1, 2024, through May 31, 2025.
10	(v) 4.50% for June 1, 2025, through May 31, 2026.
11	(vi) 5.25% for June 1, 2026, through May 31, 2027.
12	(vii) 6.00% for June 1, 2027, through May 31, 2028.
13	(viii) 6.75% for June 1, 2028, through May 31, 2029.
14	(ix) 7.5% for June 1, 2029, through May 31, 2030,
15	and thereafter.
16	(6) No later than one year after the effective date of
17	this subsection, the commission shall establish regulations
18	to ensure diversification across all customer-generators
19	under paragraph (2), including, but not limited to, solar
20	photovoltaic systems that are interconnected at residential
21	or commercial locations or customer-qenerators whose systems
22	are for virtual meter aggregation.
23	(7) This subsection shall not apply to the certification
24	of a solar photovoltaic energy system with a contract for the
25	sale and purchase of alternative energy credits derived from
26	solar photovoltaic energy sources entered into before or on
27	May 31, 2021, provided that the system meets the requirements
28	under section 3.1.
29	(8) This subsection shall apply to a contract for the
30	sale and purchase of alternative energy credits derived from

- solar photovoltaic energy sources entered into or renewed for
- 2 reporting years commencing after May 31, 2021.
- 3 * * *

- 4 (f) Alternative compliance payment.--
 - (1) At the end of each program reporting year, the program administrator shall provide a report to the commission and to each covered electric distribution company showing their status level of alternative energy acquisition.
 - (2) The commission shall conduct a review of each determination made under subsections (b), (b.1) and (c). If, after notice and hearing, the commission determines that an electric distribution company or electric generation supplier has failed to comply with subsections (b), (b.1) and (c), the commission shall impose an alternative compliance payment on that electric distribution company or electric generation supplier.
 - (3) [The] Through May 31, 2021, the alternative compliance payment, with the exception of the solar photovoltaic share compliance requirement set forth in subsection (b)(2), shall be \$45 times the number of additional alternative energy credits needed in order to comply with subsection (b) or (c).
 - (4) [The] Through May 31, 2021, the alternative compliance payment for the solar photovoltaic share required under subsection (b)(2) shall be 200% of the average market value of solar renewable energy credits sold during the reporting period within the service region of the regional transmission organization, including, where applicable, the levelized up-front rebates received by sellers of solar [renewable] alternative energy credits in other jurisdictions

Τ	in the PJM Interconnection, L.L.C. transmission organization
2	(PJM) or its successor.
3	(4.1) Beginning June 1, 2021, the alternative compliance
4	payment, with the exception of the customer-generator solar
.5	photovoltaic share compliance requirement specified under
6	subsection (b.1)(2), shall be \$45 multiplied by the number of
7	additional alternative energy credits needed in order to
8	comply with subsection (b.1) or (c).
9	(4.2) Beginning June 1, 2021, the alternative compliance
10	payment for the customer-generator solar photovoltaic share
11	compliance requirement specified under subsection (b.1)(2)
12	shall be as follows:
13	(i) An amount equal to the product of \$125
. 14	multiplied by the number of additional alternative energy
15	credits required to comply with subsection (b.1)(2) from
16	June 1, 2021, through May 31, 2026.
17	(ii) An amount equal to the product of \$100
18	multiplied by the number of additional alternative energy
19	credits required to comply with subsection (b.1)(2) from
20	June 1, 2026, through May 31, 2030.
21	(iii) Beginning with the reporting year commencing
22	on June 1, 2030, and each reporting year thereafter, the
23	alternative compliance payment required for solar
24	photovoltaic energy systems under subsection (b.1)(2)
25	shall decrease by \$5 from the previous reporting year
26	until the alternative compliance payment is
27	<u>\$45.</u>
28	(5) The commission shall establish a process to provide
29	for, at least annually, a review of the alternative energy
30	market within this Commonwealth and the service territories

1 of the regional transmission organizations that manage the 2 transmission system in any part of this Commonwealth. The commission will use the results of this study to identify any 3 4 needed changes to the cost associated with the alternative 5 compliance payment program. If the commission finds that the 6 costs associated with the alternative compliance payment program must be changed, the commission shall present these 7 8 findings to the General Assembly for legislative enactment. 9 Transfer [to sustainable development funds] of 10 alternative compliance payments .--11 * * * 12 The alternative compliance payments shall be (2) utilized solely for [projects] any of the following: 13 (i) Projects that will increase the amount of 14 15 electric energy generated from alternative energy 16 resources for purposes of compliance with subsections 17 (b), (b.1) and (c). 18 (ii) Workforce development programs to train workers 19 in renewable energy industries. 20 Section 3. The act is amended by adding sections to read: 21 22 Section 3.1. Solar photovoltaic technology requirements. (a) System requirements. -- Notwithstanding section 4, in 23 24 order to qualify as an alternative energy source eligible to 25 meet the solar photovoltaic share of the compliance requirements under section 3, a solar photovoltaic system must do one of the 26 27 following: 28 (1) Directly deliver the electricity that the solar 29 photovoltaic system generates to a retail customer of an electric distribution company or to the distribution system 30

-	operated by an electric distribution company operating in
2	this Commonwealth and currently obligated to meet the
3	compliance requirements specified under section 3.
4	
5	electric cooperative or municipal electric system operating
6	in this Commonwealth.
7	(3) Directly connect to the electric transmission system
8	at a location within the service territory of an electric
9	distribution company operating in this Commonwealth.
10	(b) Construction
11	(1) Nothing under this section or section 4 shall be
12	construed to affect any of the following:
13	(i) A certification originating in this Commonwealth
14	and granted before the effective date of this section of
15	a solar photovoltaic energy generator as a qualifying
16	alternative energy source eligible to meet the solar
17	photovoltaic share of this Commonwealth's alternative
18	energy portfolio compliance requirements under section 3.
19	(ii) A certification of a solar photovoltaic system
20	with a binding written contract for the sale and purchase
21	of alternative energy credits derived from solar
22	photovoltaic energy sources entered into before October
23	30, 2017.
24	(2) This section shall apply to contracts entered into
25	or renewed on or after October 30, 2017.
26	Section 3.2. Contract requirements for solar photovoltaic
27	energy system sources.
28	(a) Low-cost procurement for non-customer-generators
29	(1) To assure the lowest-cost procurement, two-thirds of
30	the annual total percentage requirement from solar

T	photovoltaic sources as specified under section 3(b.1)(5)
2	shall be procured through contracts of no less than 12 years
3	and no more than 20 years for both energy and alternative
4	energy credits required under this subsection. Energy
5	procured to satisfy the requirements of this subsection may
6	not be used to satisfy the procurement requirement under
7	subsection (b).
8	(2) An electric distribution company with more than one
9	million annual megawatt hours of retail load shall:
10	(i) procure energy and alternative energy credits
11	based on the total electric energy sold to all customers
12	in the electric distribution company's service territory,
13	without regard to whether the supplier of the retail
14	sales is the electric distribution company or an electric
15	<pre>generation supplier;</pre>
16	(ii) issue annual requests for proposals for
17	competitive long-term procurement of solar energy and
18	alternative energy credits and enter into contracts in
19	compliance with this subsection in accordance with
20	regulations established by the commission; and
21	(iii) be entitled to a presumption of prudency and
22	full cost recovery in distribution rates of payments for
23	competitive procurements made under this subsection at a
24	levelized price over the term of the contract of less
25	than one-half of the applicable alternative compliance
26	payment.
27	(3) For purposes of any true-up required under this
28	subsection, the following apply:
29	(i) If contracts executed to meet the requirements
30	of this section fail to deliver the quantities required

±	in any given year, the electric distribution company
2	shall procure alternative energy credits during the true-
3	up period established under section 3(e)(5).
4	(ii) Electric generation suppliers in the territory
5	of the electric distribution company shall not have an
6	obligation to purchase alternative energy credits for the
7	share of the requirements under this section and shall
8	not be responsible for true-up or the payment of any
9	penalty for failure to comply with this section.
10	(4) No later than December 1, 2020, the commission shall
11	establish regulations to implement the requirements under
12	this subsection and provide for the issuance and execution of
13	the first competitive procurement contracts for the supply of
14	alternative energy credits beginning with the reporting year
15	commencing on June 1, 2021. The regulations shall address,
16	but not be limited to, all of the following:
17	(i) Competitive contract procurement.
18	(ii) Alternative energy credit retirement.
19	(iii) Guidance on the prudency of proposed
20	purchases, including a presumption of prudence if the
21	
. — •	annualized cost of alternative energy credits is less
22	
•	annualized cost of alternative energy credits is less
22	annualized cost of alternative energy credits is less than one-half of the applicable alternative compliance
22	annualized cost of alternative energy credits is less than one-half of the applicable alternative compliance payment.
22 23 24	annualized cost of alternative energy credits is less than one-half of the applicable alternative compliance payment. (iv) Competitiveness review using standard industry
22 23 24 25	annualized cost of alternative energy credits is less than one-half of the applicable alternative compliance payment. (iv) Competitiveness review using standard industry practices to ensure that each solicitation is competitive
22 23 24 25 26	annualized cost of alternative energy credits is less than one-half of the applicable alternative compliance payment. (iv) Competitiveness review using standard industry practices to ensure that each solicitation is competitive and providing for the prompt re-issuance of a
22 23 24 25 26 27	annualized cost of alternative energy credits is less than one-half of the applicable alternative compliance payment. (iv) Competitiveness review using standard industry practices to ensure that each solicitation is competitive and providing for the prompt re-issuance of a solicitation deemed to be uncompetitive.

1	procurement shortraits in subsequent year contract
2	procurements.
3	(b) Low-cost procurement for Tier I resources
4	(1) No later than December 1, 2020, the commission shall
5	establish regulations providing for competitive procurement
6	of at least one-sixth of the Tier I alternative energy
7	required under section 3(b.1)(1), except for energy procured
8	under subsection (a), under contracts with a term of no less
9	than 10 years and no more than 15 years beginning with the
10	reporting year commencing on June 1, 2021. The competitive
11	procurements under this subsection shall result in contracts
12	for both energy and alternative energy credits for Tier I
13	alternative energy resources for the purpose of satisfying
14	the requirements under section
15	(3) (b.1) (1). The requirements under this paragraph shall not
16	apply to the solar photovoltaic share requirements under
17	section 3(b.1)(2) or (5).
18	(2) In establishing regulations under paragraph (1), the
L9	commission shall collaborate with stakeholders, including,
20	but not limited to, the department, energy generation
21	suppliers, renewable energy developers and electric
22	distribution companies, and determine the benefit to electric
23	customers in this Commonwealth based on the following
24	factors:
25	(i) The savings to electric customers resulting from
26	the procurement of alternative energy credits under this
27	section.
28	(ii) The preference for new generation resources
29	with reduced emissions as determined by the department.
30	(iii) The parties to the contracts.

	(IV) The design of the competitive procurement
2	process.
. 3	(v) The terms to be included in the contracts based
. 4	on commercial reasonableness for the parties to the
5	contracts.
. 6	Section 3.3. Renewable energy storage report.
7	(a) Report No later than one year after the effective date
8	of this section, the commission, in consultation with the PJM
9	Interconnection, L.L.C. transmission organization (PJM) or its
10	successor and stakeholders, including, but not limited to,
11	third-party electric generation suppliers and electric
12	utilities, shall conduct a renewable energy storage analysis and
13	submit a report to the Governor and General Assembly concerning
14	renewable energy storage needs and opportunities and costs and
15	benefits in this Commonwealth.
16	(b) Contract The commission shall contract with an
17	independent consultant selected through a competitive request
18	for proposal process to produce the report under this section.
19	(c) Report At a minimum, the commission shall compile the
20	report in the following manner:
21	(1) Use 2,000 megawatt hours of renewable energy storage
22	as a benchmark target qoal.
23	(2) Identify and measure the potential costs and
24	benefits of deployment based on all of the following factors:
25	(i) Deferred investments in generation, transmission
26	and distribution facilities.
27	(ii) Reduced ancillary services costs.
28	(iii) Reduced transmission and distribution
29	congestion.
30	(iv) Reduced peak power costs and capacity costs.

	(v) Reduced costs for emergency power supplies
	during outages.
	(vi) Curtailment of nonrenewable energy generators
	to meet peak demand.
	(vii) Reduced greenhouse gas emissions.
	(3) Analyze and estimate all of the following:
	(i) The ability to integrate renewable energy
	resources with energy storage systems.
	(ii) The benefits of coupling the storage to meet
	peak demand.
	(iii) The impact of renewable energy storage on grid
	reliability and power quality.
	(iv) The impact on retail electric rates over the
	useful life of a renewable energy storage system compared
	to the same services using other facilities or resources.
	(4) Consider whether the implementation of renewable
<u>ele</u>	ectric energy storage systems would promote the use of
<u>el</u>	ectric vehicles in this Commonwealth and the potential
<u>i.mr</u>	pact on renewable energy production in this Commonwealth.
	(5) Analyze the types of renewable energy storage
tec	chnologies currently being implemented in this Commonwealth
and	d other states.
	(6) Consider the benefits and costs to retail electric
cus	stomers in this Commonwealth, political subdivisions and
ele	ectric public utilities associated with the development and
<u>im</u> r	olementation of additional renewable energy storage
tec	chnologies.
	(7) Determine the optimal amount of renewable energy
sto	orage that should be added in this Commonwealth during the
nes	kt five years to provide the maximum benefit to retail

_	Grocere Cubecomers in this Commonwealth.
2	(8) Determine the optimum points of entry into the
3	electric distribution system for distributed energy
4	resources.
5	(9) Calculate the cost to retail electric customers in
6	this Commonwealth of adding the optimal amount of renewable
7	energy storage.
8	Section 3.4. Energy storage deployment targets.
9	(a) Determination No later than 90 days after completion
10	of the report under section 3.3, the commission shall determine
11	appropriate energy storage deployment targets that each electric
12	distribution company needs to achieve by December 31, 2025,
13	including any interim targets. In making the determination, the
14	commission shall consider all of the following:
15	(1) The contents of the report under section 3.3.
16	(2) Adopting specific subcategories of deployment by
17	point of interconnection.
18	(3) Adopting requirements or processes for all of the
19	<pre>following:</pre>
20	(i) The competitive deployment of energy storage
21	services from third parties.
22	(ii) The direct purchase of storage devices.
23	(4) Appropriate accountability mechanisms, including
24	reporting requirements, for investor-owned electric utilities
25	to procure energy storage in sufficient quantities to meet
26	the targets established by the commission.
27	(5) If advised by the report under section 3.3, creating
28	a renewable peak standard that would set targets for meeting
29	peak demand with renewable energy co-located with storage,
30	including all of the following:

	(1) Demand response technology or energy storage
2	that is paired solely with a Tier I alternative energy
3	source that generates, dispatches or discharges energy to
4	an electric distribution system during seasonal peak
5	periods as determined by the commission or reduce load on
6	the system.
7	(ii) Renewable energy storage systems that can be
8	co-located with the Tier I alternative energy sources or
9	paired virtually, as long as the storage facility is
10	within the boundaries of the same electric distribution
11	company's service territory and specifically located to
12	reduce peak demand.
13	(b) Definitions As used in this section, the term
14	"procure" shall mean to acquire by ownership a renewable
15	energy storage system or a contractual right to use the energy
16	from, or the capacity of, a renewable energy storage system.
17	Section 3.5. Contracts for solar photovoltaic technologies by
18	Commonwealth agencies.
19	(a) Public works Except as provided under subsection (b),
20	a Commonwealth agency shall require that a contract for the
21	construction, reconstruction, alteration, repair, improvement or
22	maintenance of public works contain a provision that, if any
23	solar photovoltaic technologies to be used or supplied in the
24	performance of the contract, only solar photovoltaic
25	technologies manufactured in the United States shall be used or
26	supplied in the performance of the contract or any subcontracts
27	under the contract.
28	(b) Exception The requirement under subsection (a) shall
29	not apply if the head of the Commonwealth agency, in writing,
30	determines that the solar photovoltaic technologies are not

- 1 manufactured in the United States in sufficient quantities to
- 2 meet the requirements of the contract.
- 3 (c) Definitions. -- As used in this section, the term "public
- 4 work" shall have the same meaning given to it in section 2(5) of
- 5 the act of August 15, 1961 (P.L.987, No.442), known as the
- 6 Pennsylvania Prevailing Wage Act.
- 7 Section 4. Section 4 of the act is amended to read:
- 8 Section 4. Portfolio requirements in other states.
- 9 If an electric distribution [supplier] company or electric
- 10 generation [company] supplier provider sells electricity in any
- 11 other state and is subject to [renewable] alternative energy
- 12 portfolio requirements in that state, they shall list any such
- 13 requirement and shall indicate how it satisfied those
- 14 [renewable] <u>alternative</u> energy portfolio requirements. To
- 15 prevent double-counting, the electric distribution [supplier]
- 16 <u>company</u> or electric generation [company] <u>supplier</u> shall not
- 17 satisfy Pennsylvania's alternative energy portfolio requirements
- 18 using alternative energy used to satisfy another state's
- 19 portfolio requirements or alternative energy credits already
- 20 purchased by individuals, businesses or government bodies that
- 21 do not have a compliance obligation under this act unless the
- 22 individual, business or government body sells those credits to
- 23 the electric distribution company or electric generation
- 24 supplier. Energy derived from alternative energy sources inside
- 25 the geographical boundaries of this Commonwealth shall be
- 26 eligible to meet the compliance requirements under this act.
- 27 Energy derived from alternative energy sources located outside
- 28 the geographical boundaries of this Commonwealth but within the
- 29 service territory of a regional transmission organization that
- 30 manages the transmission system in any part of this Commonwealth

- 1 shall only be eligible to meet the compliance requirements of
- 2 electric distribution companies or electric generation suppliers
- 3 located within the service territory of the same regional
- 4 transmission organization. For purposes of compliance with this
- 5 act, alternative energy sources located in the PJM
- 6 Interconnection, L.L.C. regional transmission organization (PJM)
- 7 or its successor service territory shall be eligible to fulfill
- 8 compliance obligations of all Pennsylvania electric distribution
- 9 companies and electric generation suppliers. Energy derived from
- 10 alternative energy sources located outside the service territory
- 11 of a regional transmission organization that manages the
- 12 transmission system in any part of this Commonwealth shall not
- 13 be eligible to meet the compliance requirements of this act.
- 14 Electric distribution companies and electric generation
- 15 suppliers shall document that this energy was not used to
- 16 satisfy another state's [renewable] alternative energy portfolio
- 17 standards.
- 18 Section 5. Repeals are as follows:
- 19 (1) The General Assembly declares that the repeal under
- 20 paragraph (2) is necessary to effectuate the addition of
- 21 section 3.1 of the act.
- 22 (2) Section 2804 of the act of April 9, 1929 (P.L.177,
- No.175), known as The Administrative Code of 1929, is
- 24 repealed.
- 25 Section 6. This act shall take effect immediately.