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HOUSE BILL NO. 895  
AMENDMENT IN THE NATURE OF A SUBSTITUTE  
(Proposed by the Senate Committee on Commerce and Labor  
on \_\_\_\_\_)  
(Patron Prior to Substitute—Delegate Sullivan)

*A BILL to amend and reenact §§ 56-580 and 56-585.5 of the Code of Virginia and to amend the Code of Virginia by adding in Title 45.2 a chapter numbered 22, consisting of a section numbered 45.2-2200, relating to electric utilities; energy storage resources; Department of Energy to develop model ordinances; work groups; reports.*

**Be it enacted by the General Assembly of Virginia:**

**1. That §§ 56-580 and 56-585.5 of the Code of Virginia are amended and reenacted and that the Code of Virginia is amended by adding in Title 45.2 a chapter numbered 22, consisting of a section numbered 45.2-2200, as follows:**

CHAPTER 22.

ENERGY STORAGE.

**§ 45.2-2200. Model ordinances for energy storage resources.**

*A. By December 1, 2026, the Department, in consultation with the Department of Environmental Quality and the Department of Fire Programs, shall develop model ordinances suggested for use by localities in their regulation of energy storage projects, as described in subsection E of § 56-585.5, and shall update such model ordinances every three years thereafter. Such model ordinances shall include (i) minimum safety standards in accordance with the most recently published edition of the National Fire Protection Association 855 Standard for the Installation of Stationary Energy Storage Systems, (ii) consideration of the varying characteristics of different energy storage technologies, and (iii) any other factors the Department deems relevant to support the development of energy storage in the Commonwealth. In developing such model ordinances, the Department shall develop and publish a guideline document that advises localities on best practices for reviewing energy storage projects.*

*B. The Department shall convene a work group to advise the Department on the development or update of model ordinances conducted pursuant to subsection A. Such work group shall include representatives from the Department of Environmental Quality, the Department of Fire Programs, an association representing localities, a nonprofit agricultural advocacy organization, an environmental organization, trade associations related to solar, energy storage, and clean energy, storage project engineers, electric utilities, and any other stakeholders deemed relevant by the Department. The Department shall make available online any resources*

33 *or studies developed by the work group and shall develop and maintain online resources to educate*  
34 *localities, developers, contractors, residents, businesses, researchers, and other stakeholders about energy*  
35 *storage.*

36 **§ 56-580. Transmission and distribution of electric energy.**

37 A. Subject to the provisions of § 56-585.1, the Commission shall continue to regulate pursuant to this title  
38 the distribution of retail electric energy to retail customers in the Commonwealth and, to the extent not  
39 prohibited by federal law, the transmission of electric energy in the Commonwealth.

40 B. The Commission shall continue to regulate, to the extent not prohibited by federal law, the reliability,  
41 quality and maintenance by transmitters and distributors of their transmission and retail distribution systems.

42 C. The Commission shall develop codes of conduct governing the conduct of incumbent electric utilities  
43 and affiliates thereof when any such affiliates provide, or control any entity that provides, generation,  
44 distribution, or transmission services, to the extent necessary to prevent impairment of competition. Nothing  
45 in this chapter shall prevent an incumbent electric utility from offering metering options to its customers.

46 D. The Commission shall permit the construction and operation of ~~electrical~~ *electric* generating facilities  
47 *and energy storage resource facilities in Virginia the Commonwealth* upon a finding that such generating  
48 facility and associated facilities *or such energy storage resource facility and associated facilities* (i) will have  
49 no material adverse effect upon reliability of electric service provided by any regulated public utility, (ii) are  
50 required by the public convenience and necessity, if a petition for such permit is filed after July 1, 2007, and  
51 if they are to be constructed and operated by any regulated utility whose rates are regulated pursuant to  
52 § 56-585.1, and (iii) are not otherwise contrary to the public interest. In review of a petition for a certificate to  
53 construct and operate a generating facility described in this subsection, the Commission shall give  
54 consideration to the effect of the facility and associated facilities on the environment and establish such  
55 conditions as may be desirable or necessary to minimize adverse environmental impact as provided in  
56 § 56-46.1, unless exempt as a small renewable energy project for which the Department of Environmental  
57 Quality has issued a permit by rule pursuant to Article 5 (§ 10.1-1197.5 et seq.) of Chapter 11.1 of Title 10.1.  
58 In order to avoid duplication of governmental activities, any valid permit or approval required for an electric  
59 generating ~~plant~~ *facility* and associated facilities, *or for an energy storage resource facility and associated*  
60 *facilities*, issued or granted by a federal, state or local governmental entity charged by law with responsibility  
61 for issuing permits or approvals regulating environmental impact and mitigation of adverse environmental  
62 impact or for other specific public interest issues such as building codes, transportation plans, and public  
63 safety, whether such permit or approval is prior to or after the Commission's decision, shall be deemed to

64 satisfy the requirements of this section with respect to all matters that (i) are governed by the permit or  
65 approval or (ii) are within the authority of, and were considered by, the governmental entity in issuing such  
66 permit or approval, and the Commission shall impose no additional conditions with respect to such matters.  
67 Nothing in this section shall affect the ability of the Commission to keep the record of a case open. Nothing  
68 in this section shall affect any right to appeal such permits or approvals in accordance with applicable law. In  
69 the case of a proposed facility located in a region that was designated as of July 1, 2001, as serious  
70 nonattainment for the one-hour ozone standard as set forth in the federal Clean Air Act, the Commission shall  
71 not issue a decision approving such proposed facility that is conditioned upon issuance of any environmental  
72 permit or approval. The Commission shall complete any proceeding under this section, or under any  
73 provision of the Utility Facilities Act (§ 56-265.1 et seq.), involving an application for a certificate, permit, or  
74 approval required for the construction or operation by a public utility of a small renewable energy project as  
75 defined in § 10.1-1197.5, within nine months following the utility's submission of a complete application  
76 therefore. Small renewable energy projects as defined in § 10.1-1197.5 are in the public interest and in  
77 determining whether to approve such project, the Commission shall liberally construe the provisions of this  
78 title.

79 E. Nothing in this section shall impair the distribution service territorial rights of incumbent electric  
80 utilities, and incumbent electric utilities shall continue to provide distribution services within their exclusive  
81 service territories as established by the Commission. Subject to the provisions of § 56-585.1, the Commission  
82 shall continue to exercise its existing authority over the provision of electric distribution services to retail  
83 customers in the Commonwealth including, but not limited to, the authority contained in Chapters 10  
84 (§ 56-232 et seq.) and 10.1 (§ 56-265.1 et seq.) of this title.

85 F. Nothing in this chapter shall impair the exclusive territorial rights of an electric utility owned or  
86 operated by a municipality as of July 1, 1999, or by an authority created by a governmental unit exempt from  
87 the referendum requirement of § 15.2-5403. Nor shall any provision of this chapter apply to any such electric  
88 utility unless (i) that municipality or that authority created by a governmental unit exempt from the  
89 referendum requirement of § 15.2-5403 elects to have this chapter apply to that utility or (ii) that utility,  
90 directly or indirectly, sells, offers to sell or seeks to sell electric energy to any retail customer eligible to  
91 purchase electric energy from any supplier in accordance with § 56-577 if that retail customer is outside the  
92 geographic area that was served by such municipality as of July 1, 1999, except (a) any area within the  
93 municipality that was served by an incumbent public utility as of that date but was thereafter served by an  
94 electric utility owned or operated by a municipality or by an authority created by a governmental unit exempt

95 from the referendum requirement of § 15.2-5403 pursuant to the terms of a franchise agreement between the  
96 municipality and the incumbent public utility, or (b) where the geographic area served by an electric utility  
97 owned or operated by a municipality is changed pursuant to mutual agreement between the municipality and  
98 the affected incumbent public utility in accordance with § 56-265.4:1. If an electric utility owned or operated  
99 by a municipality as of July 1, 1999, or by an authority created by a governmental unit exempt from the  
100 referendum requirement of § 15.2-5403 is made subject to the provisions of this chapter pursuant to clause (i)  
101 or (ii) of this subsection, then in such event the provisions of this chapter applicable to incumbent electric  
102 utilities shall also apply to any such utility, mutatis mutandis.

103 G. The applicability of all provisions of this chapter except § 56-594 to any investor-owned incumbent  
104 electric utility supplying electric service to retail customers on January 1, 2003, whose service territory  
105 assigned to it by the Commission is located entirely within Dickenson, Lee, Russell, Scott, and Wise  
106 Counties shall be suspended effective July 1, 2003, so long as such utility does not provide retail electric  
107 services in any other service territory in any jurisdiction to customers who have the right to receive retail  
108 electric energy from another supplier. During any such suspension period, the utility's rates shall be (i) its  
109 capped rates established pursuant to § 56-582 for the duration of the capped rate period established  
110 thereunder, and (ii) determined thereafter by the Commission on the basis of such utility's prudently incurred  
111 costs pursuant to Chapter 10 (§ 56-232 et seq.) of this title.

112 H. The expiration date of any certificates granted by the Commission pursuant to subsection D, for which  
113 applications were filed with the Commission prior to July 1, 2002, shall be extended for an additional two  
114 years from the expiration date that otherwise would apply.

115 **§ 56-585.5. Generation of electricity from renewable and zero carbon sources.**

116 A. As used in this section:

117 "Accelerated renewable energy buyer" means a commercial or industrial customer of a Phase I or Phase II  
118 Utility, irrespective of generation supplier, with an aggregate load over 25 megawatts in the prior calendar  
119 year, that enters into arrangements pursuant to subsection G, as certified by the Commission.

120 "Aggregate load" means the combined electrical load associated with selected accounts of an accelerated  
121 renewable energy buyer with the same legal entity name as, or in the names of affiliated entities that control,  
122 are controlled by, or are under common control of, such legal entity or are the names of affiliated entities  
123 under a common parent.

124 "Control" has the same meaning as provided in § 56-585.1:11.

125 "Elementary or secondary" has the same meaning as provided in § 22.1-1.

126 "Falling water" means hydroelectric resources, including run-of-river generation from a combined  
127 pumped-storage and run-of-river facility. "Falling water" does not include electricity generated from pumped-  
128 storage facilities.

129 "Low-income qualifying projects" means a project that provides a minimum of 50 percent of the  
130 respective electric output to low-income utility customers as that term is defined in § 56-576.

131 "Phase I Utility" has the same meaning as provided in subdivision A 1 of § 56-585.1.

132 "Phase II Utility" has the same meaning as provided in subdivision A 1 of § 56-585.1.

133 "Previously developed project site" means any property, including related buffer areas, if any, that has  
134 been previously disturbed or developed for non-single-family residential, nonagricultural, or nonsilvicultural  
135 use, regardless of whether such property currently is being used for any purpose. "Previously developed  
136 project site" includes a brownfield as defined in § 10.1-1230 or any parcel that has been previously used (i)  
137 for a retail, commercial, or industrial purpose; (ii) as a parking lot; (iii) as the site of a parking lot canopy or  
138 structure; (iv) for mining, which is any lands affected by coal mining that took place before August 3, 1977,  
139 or any lands upon which extraction activities have been permitted by the Department of Energy under Title  
140 45.2; (v) for quarrying; or (vi) as a landfill.

141 "Total electric energy" means total electric energy sold to retail customers in the Commonwealth service  
142 territory of a Phase I or Phase II Utility, other than accelerated renewable energy buyers, by the incumbent  
143 electric utility or other retail supplier of electric energy in the previous calendar year, excluding an amount  
144 equivalent to the annual percentages of the electric energy that was supplied to such customer from nuclear  
145 generating plants located within the Commonwealth in the previous calendar year, provided such nuclear  
146 units were operating by July 1, 2020, or from any zero-carbon electric generating facilities not otherwise RPS  
147 eligible sources and placed into service in the Commonwealth after July 1, 2030.

148 "Zero-carbon electricity" means electricity generated by any generating unit that does not emit carbon  
149 dioxide as a by-product of combusting fuel to generate electricity.

150 B. 1. By December 31, 2024, except for any coal-fired electric generating units (i) jointly owned with a  
151 cooperative utility or (ii) owned and operated by a Phase II Utility located in the coalfield region of the  
152 Commonwealth that co-fires with biomass, any Phase I and Phase II Utility shall retire all generating units  
153 principally fueled by oil with a rated capacity in excess of 500 megawatts and all coal-fired electric  
154 generating units operating in the Commonwealth.

155 2. By December 31, 2045, except for biomass-fired electric generating units that do not co-fire with coal,  
156 each Phase I and II Utility shall retire all other electric generating units located in the Commonwealth that  
157 emit carbon as a by-product of combusting fuel to generate electricity.

158 3. A Phase I or Phase II Utility may petition the Commission for relief from the requirements of this  
159 subsection on the basis that the requirement would threaten the reliability or security of electric service to  
160 customers. The Commission shall consider in-state and regional transmission entity resources and shall  
161 evaluate the reliability of each proposed retirement on a case-by-case basis in ruling upon any such petition.

162 C. Each Phase I and Phase II Utility shall participate in a renewable energy portfolio standard program  
163 (RPS Program) that establishes annual goals for the sale of renewable energy to all retail customers in the  
164 utility's service territory, other than accelerated renewable energy buyers pursuant to subsection G, regardless  
165 of whether such customers purchase electric supply service from the utility or from suppliers other than the  
166 utility. To comply with the RPS Program, each Phase I and Phase II Utility shall procure and retire  
167 Renewable Energy Certificates (RECs) originating from renewable energy standard eligible sources (RPS  
168 eligible sources). For purposes of complying with the RPS Program from 2021 to 2024, a Phase I and Phase  
169 II Utility may use RECs from any renewable energy facility, as defined in § 56-576, provided that such  
170 facilities are located in the Commonwealth or are physically located within the PJM Interconnection, LLC  
171 (PJM) region. However, at no time during this period or thereafter may any Phase I or Phase II Utility use  
172 RECs from (i) renewable thermal energy, (ii) renewable thermal energy equivalent, or (iii) biomass-fired  
173 facilities that are outside the Commonwealth. From compliance year 2025 and all years after, each Phase I  
174 and Phase II Utility may only use RECs from RPS eligible sources for compliance with the RPS Program.

175 In order to qualify as RPS eligible sources, such sources must be (a) electric-generating resources that  
176 generate electric energy derived from solar or wind located in the Commonwealth or off the Commonwealth's  
177 Atlantic shoreline or in federal waters and interconnected directly into the Commonwealth or physically  
178 located within the PJM region; (b) falling water resources located in the Commonwealth or physically located  
179 within the PJM region that were in operation as of January 1, 2020, that are owned by a Phase I or Phase II  
180 Utility or for which a Phase I or Phase II Utility has entered into a contract prior to January 1, 2020, to  
181 purchase the energy, capacity, and renewable attributes of such falling water resources; (c) non-utility-owned  
182 resources from falling water that (1) are less than 65 megawatts, (2) began commercial operation after  
183 December 31, 1979, or (3) added incremental generation representing greater than 50 percent of the original  
184 nameplate capacity after December 31, 1979, provided that such resources are located in the Commonwealth  
185 or are physically located within the PJM region; (d) waste-to-energy or landfill gas-fired generating resources

186 located in the Commonwealth and in operation as of January 1, 2020, provided that such resources do not use  
 187 waste heat from fossil fuel combustion; (e) geothermal heating and cooling systems located in the  
 188 Commonwealth; (f) geothermal electric generating resources located in the Commonwealth or physically  
 189 located within the PJM region; or (g) biomass-fired facilities in operation in the Commonwealth and in  
 190 operation as of January 1, 2023, that (1) supply no more than 10 percent of their annual net electrical  
 191 generation to the electric grid or no more than 15 percent of their annual total useful energy to any entity  
 192 other than the manufacturing facility to which the generating source is interconnected and are fueled by  
 193 forest-product manufacturing residuals, including pulping liquor, bark, paper recycling residuals, biowastes,  
 194 or biomass, as described in subdivisions A 1, 2, and 4 of § 10.1-1308.1, provided that biomass as described in  
 195 subdivision A 1 of § 10.1-1308.1 results from harvesting in accordance with best management practices for  
 196 the sustainable harvesting of biomass developed and enforced by the State Forester pursuant to § 10.1-1105,  
 197 or (2) are owned by a Phase I or Phase II Utility, have less than 52 megawatts capacity, and are fueled by  
 198 forest-product manufacturing residuals, biowastes, or biomass, as described in subdivisions A 1, 2, and 4 of  
 199 § 10.1-1308.1, provided that biomass as described in subdivision A 1 of § 10.1-1308.1 results from  
 200 harvesting in accordance with best management practices for the sustainable harvesting of biomass developed  
 201 and enforced by the State Forester pursuant to § 10.1-1105. Regardless of any future maintenance, expansion,  
 202 or refurbishment activities, the total amount of RECs that may be sold by any RPS eligible source using  
 203 biomass in any year shall be no more than the number of megawatt hours of electricity produced by that  
 204 facility in 2022; however, in no year may any RPS eligible source using biomass sell RECs in excess of the  
 205 actual megawatt-hours of electricity generated by such facility that year. In order to comply with the RPS  
 206 Program, each Phase I and Phase II Utility may use and retire the environmental attributes associated with  
 207 any existing owned or contracted solar, wind, falling water, or biomass electric generating resources in  
 208 operation, or proposed for operation, in the Commonwealth or solar, wind, or falling water resources  
 209 physically located within the PJM region, with such resource qualifying as a Commonwealth-located  
 210 resource for purposes of this subsection, as of January 1, 2020, provided that such renewable attributes are  
 211 verified as RECs consistent with the PJM-EIS Generation Attribute Tracking System.

212 1. The RPS Program requirements shall be a percentage of the total electric energy sold in the previous  
 213 calendar year and shall be implemented in accordance with the following schedule:

	Phase I Utilities		Phase II Utilities	
	Year	RPS Program Requirement	Year	RPS Program Requirement
214	a			
215	b	2021	2021	14%
216	c	2022	2022	17%
217	d	2023	2023	20%
218	e	2024	2024	23%
219				

<b>220</b>	f	2025	14%	2025	26%
<b>221</b>	g	2026	17%	2026	29%
<b>222</b>	h	2027	20%	2027	32%
<b>223</b>	i	2028	24%	2028	35%
<b>224</b>	j	2029	27%	2029	38%
<b>225</b>	k	2030	30%	2030	41%
<b>226</b>	l	2031	33%	2031	45%
<b>227</b>	m	2032	36%	2032	49%
<b>228</b>	n	2033	39%	2033	52%
<b>229</b>	o	2034	42%	2034	55%
<b>230</b>	p	2035	45%	2035	59%
<b>231</b>	q	2036	53%	2036	63%
<b>232</b>	r	2037	53%	2037	67%
<b>233</b>	s	2038	57%	2038	71%
<b>234</b>	t	2039	61%	2039	75%
<b>235</b>	u	2040	65%	2040	79%
<b>236</b>	v	2041	68%	2041	83%
<b>237</b>	w	2042	71%	2042	87%
<b>238</b>	x	2043	74%	2043	91%
<b>239</b>	y	2044	77%	2044	95%
<b>240</b>	z	2045	80%	2045 and	100%
<b>241</b>				thereafter	
<b>242</b>	aa	2046	84%		
<b>243</b>	ab	2047	88%		
<b>244</b>	ac	2048	92%		
<b>245</b>	ad	2049	96%		
<b>246</b>	ae	2050 and	100%		
<b>247</b>		thereafter			

**248** 2. A Phase II Utility shall meet one percent of the RPS Program requirements in any given compliance  
**249** year with solar, wind, or anaerobic digestion resources of one megawatt or less located in the  
**250** Commonwealth, with not more than 3,000 kilowatts at any single location or at contiguous locations owned  
**251** by the same entity or affiliated entities and, to the extent that low-income qualifying projects are available,  
**252** then no less than 25 percent of such one percent shall be composed of low-income qualifying projects. To the  
**253** extent that low-income qualifying projects are not available and projects located on or adjacent to public  
**254** elementary or secondary schools are available, the remainder of no less than 25 percent of such one percent  
**255** shall be composed of projects located on or adjacent to public elementary or secondary schools. A project  
**256** located on or adjacent to a public elementary or secondary school shall have a contractual relationship with  
**257** such school in order to qualify for the provisions of this section.

**258** 3. Beginning with the 2025 compliance year and thereafter, at least 75 percent of all RECs used by a  
**259** Phase II Utility in a compliance period shall come from RPS eligible resources located in the  
**260** Commonwealth.

**261** 4. Any Phase I or Phase II Utility may apply renewable energy sales achieved or RECs acquired in excess  
**262** of the sales requirement for that RPS Program to the sales requirements for RPS Program requirements in the  
**263** year in which it was generated and the five calendar years after the renewable energy was generated or the  
**264** RECs were created. To the extent that a Phase I or Phase II Utility procures RECs for RPS Program

265 compliance from resources the utility does not own, the utility shall be entitled to recover the costs of such  
266 certificates at its election pursuant to § 56-249.6 or subdivision A 5 d of § 56-585.1.

267 5. Energy from a geothermal heating and cooling system is eligible for inclusion in meeting the  
268 requirements of the RPS Program. RECs from a geothermal heating and cooling system are created based on  
269 the amount of energy, converted from BTUs to kilowatt-hours, that is generated by a geothermal heating and  
270 cooling system for space heating and cooling or water heating. The Commission shall determine the form and  
271 manner in which such RECs are verified.

272 D. Each Phase I or Phase II Utility shall petition the Commission for necessary approvals to procure  
273 zero-carbon electricity generating capacity as set forth in this subsection and energy storage resources as set  
274 forth in subsection E. To the extent that a Phase I or Phase II Utility constructs or acquires new zero-carbon  
275 generating facilities or energy storage resources, the utility shall petition the Commission for the recovery of  
276 the costs of such facilities, at the utility's election, either through its rates for generation and distribution  
277 services or through a rate adjustment clause pursuant to subdivision A 6 of § 56-585.1. All costs not sought  
278 for recovery through a rate adjustment clause pursuant to subdivision A 6 of § 56-585.1 associated with  
279 generating facilities provided by sunlight or onshore or offshore wind are also eligible to be applied by the  
280 utility as a customer credit reinvestment offset as provided in subdivision A 8 of § 56-585.1. Costs associated  
281 with the purchase of energy, capacity, or environmental attributes from facilities owned by the persons other  
282 than the utility required by this subsection shall be recovered by the utility either through its rates for  
283 generation and distribution services or pursuant to § 56-249.6.

284 1. Each Phase I Utility shall petition the Commission for necessary approvals to construct, acquire, or  
285 enter into agreements to purchase the energy, capacity, and environmental attributes of 600 megawatts of  
286 generating capacity using energy derived from sunlight or onshore wind.

287 a. By December 31, 2023, each Phase I Utility shall petition the Commission for necessary approvals to  
288 construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes of  
289 at least 200 megawatts of generating capacity located in the Commonwealth using energy derived from  
290 sunlight or onshore wind, and 35 percent of such generating capacity procured shall be from the purchase of  
291 energy, capacity, and environmental attributes from solar or onshore wind facilities owned by persons other  
292 than the utility, with the remainder, in the aggregate, being from construction or acquisition by such Phase I  
293 Utility.

294 b. By December 31, 2027, each Phase I Utility shall petition the Commission for necessary approvals to

295 construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes of  
296 at least 200 megawatts of additional generating capacity located in the Commonwealth using energy derived  
297 from sunlight or onshore wind, and 35 percent of such generating capacity procured shall be from the  
298 purchase of energy, capacity, and environmental attributes from solar or onshore wind facilities owned by  
299 persons other than the utility, with the remainder, in the aggregate, being from construction or acquisition by  
300 such Phase I Utility.

301 c. By December 31, 2030, each Phase I Utility shall petition the Commission for necessary approvals to  
302 construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes of  
303 at least 200 megawatts of additional generating capacity located in the Commonwealth using energy derived  
304 from sunlight or onshore wind, and 35 percent of such generating capacity procured shall be from the  
305 purchase of energy, capacity, and environmental attributes from solar or onshore wind facilities owned by  
306 persons other than the utility, with the remainder, in the aggregate, being from construction or acquisition by  
307 such Phase I Utility.

308 d. Nothing in this subdivision 1 shall prohibit such Phase I Utility from constructing, acquiring, or  
309 entering into agreements to purchase the energy, capacity, and environmental attributes of more than 600  
310 megawatts of generating capacity located in the Commonwealth using energy derived from sunlight or  
311 onshore wind, provided the utility receives approval from the Commission pursuant to §§ 56-580 and  
312 56-585.1.

313 2. By December 31, 2035, each Phase II Utility shall petition the Commission for necessary approvals to  
314 (i) construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes  
315 of 16,100 megawatts of generating capacity located in the Commonwealth using energy derived from  
316 sunlight or onshore wind, which shall include 1,100 megawatts of solar generation of a nameplate capacity  
317 not to exceed three megawatts per individual project and 35 percent of such generating capacity procured  
318 shall be from the purchase of energy, capacity, and environmental attributes from solar facilities owned by  
319 persons other than a utility, including utility affiliates and deregulated affiliates and (ii) pursuant to  
320 § 56-585.1:11, construct or purchase one or more offshore wind generation facilities located off the  
321 Commonwealth's Atlantic shoreline or in federal waters and interconnected directly into the Commonwealth  
322 with an aggregate capacity of up to 5,200 megawatts. At least 200 megawatts of the 16,100 megawatts shall  
323 be placed on previously developed project sites.

324 a. By December 31, 2024, each Phase II Utility shall petition the Commission for necessary approvals to

325 construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes of  
326 at least 3,000 megawatts of generating capacity located in the Commonwealth using energy derived from  
327 sunlight or onshore wind, and 35 percent of such generating capacity procured shall be from the purchase of  
328 energy, capacity, and environmental attributes from solar or onshore wind facilities owned by persons other  
329 than the utility, with the remainder, in the aggregate, being from construction or acquisition by such Phase II  
330 Utility.

331 b. By December 31, 2027, each Phase II Utility shall petition the Commission for necessary approvals to  
332 construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes of  
333 at least 3,000 megawatts of additional generating capacity located in the Commonwealth using energy  
334 derived from sunlight or onshore wind, and 35 percent of such generating capacity procured shall be from the  
335 purchase of energy, capacity, and environmental attributes from solar or onshore wind facilities owned by  
336 persons other than the utility, with the remainder, in the aggregate, being from construction or acquisition by  
337 such Phase II Utility.

338 c. By December 31, 2030, each Phase II Utility shall petition the Commission for necessary approvals to  
339 construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes of  
340 at least 4,000 megawatts of additional generating capacity located in the Commonwealth using energy  
341 derived from sunlight or onshore wind, and 35 percent of such generating capacity procured shall be from the  
342 purchase of energy, capacity, and environmental attributes from solar or onshore wind facilities owned by  
343 persons other than the utility, with the remainder, in the aggregate, being from construction or acquisition by  
344 such Phase II Utility.

345 d. By December 31, 2035, each Phase II Utility shall petition the Commission for necessary approvals to  
346 construct, acquire, or enter into agreements to purchase the energy, capacity, and environmental attributes of  
347 at least 6,100 megawatts of additional generating capacity located in the Commonwealth using energy  
348 derived from sunlight or onshore wind, and 35 percent of such generating capacity procured shall be from the  
349 purchase of energy, capacity, and environmental attributes from solar or onshore wind facilities owned by  
350 persons other than the utility, with the remainder, in the aggregate, being from construction or acquisition by  
351 such Phase II Utility.

352 e. Nothing in this subdivision 2 shall prohibit such Phase II Utility from constructing, acquiring, or  
353 entering into agreements to purchase the energy, capacity, and environmental attributes of more than 16,100

354 megawatts of generating capacity located in the Commonwealth using energy derived from sunlight or  
355 onshore wind, provided the utility receives approval from the Commission pursuant to §§ 56-580 and  
356 56-585.1.

357 3. Nothing in this section shall prohibit a utility from petitioning the Commission to construct or acquire  
358 zero-carbon electricity or from entering into contracts to procure the energy, capacity, and environmental  
359 attributes of zero-carbon electricity generating resources in excess of the requirements in subsection B. The  
360 Commission shall determine whether to approve such petitions on a stand-alone basis pursuant to §§ 56-580  
361 and 56-585.1, provided that the Commission's review shall also consider whether the proposed generating  
362 capacity (i) is necessary to meet the utility's native load, (ii) is likely to lower customer fuel costs, (iii) will  
363 provide economic development opportunities in the Commonwealth, and (iv) serves a need that cannot be  
364 more affordably met with demand-side or energy storage resources.

365 Each Phase I and Phase II Utility shall, at least once every year, conduct a request for proposals for new  
366 solar ~~and~~, wind, *and energy storage* resources. Such requests shall quantify and describe the utility's need for  
367 energy, capacity, or renewable energy certificates. The requests for proposals shall be publicly announced  
368 and made available for public review on the utility's website at least 45 days prior to the closing of such  
369 request for proposals. The requests for proposals shall provide, at a minimum, the following information: (a)  
370 the size, type, and timing of resources for which the utility anticipates contracting; (b) any minimum  
371 thresholds that must be met by respondents; (c) major assumptions to be used by the utility in the bid  
372 evaluation process, including environmental emission standards; (d) detailed instructions for preparing bids  
373 so that bids can be evaluated on a consistent basis; (e) the preferred general location of additional capacity;  
374 and (f) specific information concerning the factors involved in determining the price and non-price criteria  
375 used for selecting winning bids. A utility may evaluate responses to requests for proposals based on any  
376 criteria that it deems reasonable but shall at a minimum consider the following in its selection process: (1) the  
377 status of a particular project's development; (2) the age of existing generation facilities; (3) the demonstrated  
378 financial viability of a project and the developer; (4) a developer's prior experience in the field; (5) the  
379 location and effect on the transmission grid of a generation facility; (6) benefits to the Commonwealth that  
380 are associated with particular projects, including regional economic development and the use of goods and  
381 services from Virginia businesses; and (7) the environmental impacts of particular resources, including  
382 impacts on air quality within the Commonwealth and the carbon intensity of the utility's generation portfolio.

383 *The Commission shall approve an independent auditor from a list of three auditors proposed by the utility*  
384 *to participate in formulating each criterion for requests for proposals for new energy storage resources and*

385 *reviewing the results of such requests for proposals. Such independent auditor shall ensure that the Phase I*  
386 *or Phase II Utility purchases projects at the lowest possible cost while ensuring project safety and electric*  
387 *grid reliability. Such independent auditor shall consider and evaluate best practices that are practicable for*  
388 *an electric utility located in the PJM region. In doing so, the independent auditor shall also evaluate the*  
389 *energy storage resources available to and selected by a Phase I or Phase II Utility as compared to the energy*  
390 *storage resources available to and selected by electric utilities in other states or regions of the United States.*  
391 *The independent auditor shall provide a report on such review to the Commission with each annual petition*  
392 *submitted by a Phase I or Phase II Utility under subdivision 4, which report shall be made publicly available*  
393 *on the Commission's website. Upon receiving such report, the Commission may direct the utility to alter its*  
394 *request for proposals to promote affordability, cost savings to customers, and electric grid reliability.*

395 4. In connection with the requirements of this subsection, each Phase I and Phase II Utility shall,  
396 commencing in 2020 and concluding in ~~2035~~ 2045, submit annually a plan and petition for approval for the  
397 development of new solar and onshore wind generation capacity. Such plan shall reflect, in the aggregate and  
398 over its duration, the requirements of subsection D concerning the allocation percentages for construction or  
399 purchase of such capacity. Such petition shall contain any request for approval to construct such facilities  
400 pursuant to subsection D of § 56-580 and a request for approval or update of a rate adjustment clause  
401 pursuant to subdivision A 6 of § 56-585.1 to recover the costs of such facilities. Such plan shall also include  
402 the utility's plan to meet the energy storage project targets of subsection E, including the goal of installing at  
403 least 10 percent of such energy storage projects *petitioned for pursuant to subdivisions E 1 and 2* behind the  
404 meter. In determining whether to approve the utility's plan and any associated petition requests, the  
405 Commission shall determine whether they are reasonable and prudent and shall give due consideration to (i)  
406 the RPS and carbon dioxide reduction requirements in this section; (ii) the promotion of new renewable  
407 generation and energy storage resources within the Commonwealth, and associated economic development;  
408 and (iii) fuel savings projected to be achieved by the plan. Notwithstanding any other provision of this title,  
409 the Commission's final order regarding any such petition and associated requests shall be entered by the  
410 Commission not more than six months after the date of the filing of such petition.

411 5. If, in any year, a Phase I or Phase II Utility is unable to meet the compliance obligation of the RPS  
412 Program requirements or if the cost of RECs necessary to comply with RPS Program requirements exceeds  
413 \$45 per megawatt hour, such supplier shall be obligated to make a deficiency payment equal to \$45 for each  
414 megawatt-hour shortfall for the year of noncompliance, except that the deficiency payment for any shortfall  
415 in procuring RECs for solar, wind, or anaerobic digesters located in the Commonwealth shall be \$75 per

416 megawatts hour for resources one megawatt and lower. The amount of any deficiency payment shall increase  
417 by one percent annually after 2021. A Phase I or Phase II Utility shall be entitled to recover the costs of such  
418 payments as a cost of compliance with the requirements of this subsection pursuant to subdivision A 5 d of  
419 § 56-585.1. All proceeds from the deficiency payments shall be deposited into an interest-bearing account  
420 administered by the Department of Energy. In administering this account, the Department of Energy shall  
421 manage the account as follows: (i) 50 percent of total revenue shall be directed to job training programs in  
422 historically economically disadvantaged communities; (ii) 16 percent of total revenue shall be directed to  
423 energy efficiency measures for public facilities; (iii) 30 percent of total revenue shall be directed to renewable  
424 energy programs located in historically economically disadvantaged communities; and (iv) four percent of  
425 total revenue shall be directed to administrative costs.

426 For any project constructed pursuant to this subsection or subsection E, a utility shall, subject to a  
427 competitive procurement process, procure equipment from a Virginia-based or United States-based  
428 manufacturer using materials or product components made in Virginia or the United States, if reasonably  
429 available and competitively priced.

430 E. To enhance reliability and performance of the utility's generation and distribution system, each Phase I  
431 and Phase II Utility shall petition the Commission for necessary approvals to construct ~~or~~, acquire ~~new~~, or  
432 procure utility-owned energy storage resources. *For the purposes of this subsection, "long-duration energy  
433 storage" means energy storage resources with 10 hours or more of generation capacity operating at full  
434 nameplate capacity and "short-duration energy storage" means energy storage resources with less than 10  
435 hours of generation capacity.*

436 1. By December 31, ~~2035~~ 2040, each Phase I Utility shall petition the Commission for necessary  
437 approvals to construct ~~or~~, acquire ~~400~~, or procure 780 megawatts of *short-duration* energy storage capacity.  
438 Nothing in this subdivision shall prohibit a Phase I Utility from constructing ~~or~~, acquiring, or procuring more  
439 than ~~400~~ 780 megawatts of *short-duration* energy storage, provided that the utility receives approval from the  
440 Commission pursuant to §§ 56-580 and 56-585.1. *Each Phase I Utility shall petition for at least 10 percent of  
441 all short-duration energy storage required by this subdivision to be recovered as electric distribution grid  
442 transformation projects in Commission filings conducted pursuant to subdivision A 6 of § 56-585.1.*

443 2. By December 31, ~~2035~~ 2045, each Phase II Utility shall petition the Commission for necessary  
444 approvals to construct or acquire ~~2,700~~ 16,000 megawatts of *short-duration* energy storage capacity,  
445 including 4,000 megawatts of *short-duration* energy storage capacity that shall be petitioned for by  
446 December 31, 2030. Nothing in this subdivision shall prohibit a Phase II Utility from constructing ~~or~~,

447 acquiring, or procuring more than 2,700 megawatts of short-duration energy storage than required by this  
448 subdivision, provided that the utility receives approval from the Commission pursuant to §§ 56-580 and  
449 56-585.1. Each Phase II Utility shall petition for at least 10 percent of all short-duration energy storage  
450 required by this subdivision to be recovered as electric distribution grid transformation projects in  
451 Commission filings conducted pursuant to subdivision A 6 of § 56-585.1.

452 3. By December 31, 2045, each Phase I Utility shall petition the Commission for necessary approvals to  
453 construct, acquire, or procure 520 megawatts of long-duration energy storage capacity, half of which shall  
454 be petitioned to the Commission for necessary approvals to be constructed, acquired, or procured by  
455 December 31, 2035. Of such 520 megawatts, half shall have between 10 and 24 hours of storage capacity  
456 and the other half shall have more than 24 hours of storage capacity. Nothing in this subdivision shall  
457 prohibit a Phase I Utility from constructing, acquiring, or procuring more than 520 megawatts of long-  
458 duration energy storage, provided that the utility receives approval from the Commission pursuant to  
459 §§ 56-580 and 56-585.1.

460 4. By December 31, 2045, each Phase II Utility shall petition the Commission for necessary approvals to  
461 construct, acquire, or procure 4,000 megawatts of long-duration energy storage capacity, half of which shall  
462 be petitioned to the Commission for necessary approvals to be constructed, acquired, or procured by  
463 December 31, 2035. Of such 4,000 megawatts, (i) half shall have between 10 and 24 hours of storage  
464 capacity and the other half shall have more than 24 hours of storage capacity and (ii) at least 20 percent  
465 shall be located in the coalfield region of the Commonwealth, as described in § 15.2-6002. Nothing in this  
466 subdivision shall prohibit a Phase II Utility from constructing, acquiring, or procuring more than 4,000  
467 megawatts of long-duration energy storage, provided that the utility receives approval from the Commission  
468 pursuant to §§ 56-580 and 56-585.1.

469 5. For all energy storage projects proposed for construction, acquisition, or procurement pursuant to this  
470 subsection, the Phase I or Phase II Utility shall demonstrate compliance with the minimum safety standards  
471 set forth in the most recently published edition of the National Fire Protection Association 855 Standard for  
472 the Installation of Stationary Energy Storage Systems.

473 6. No single energy storage project shall exceed 500 megawatts in size, except that a Phase II Utility may  
474 procure a single energy storage project up to 800 megawatts.

475 4. 7. All energy storage projects constructed, acquired, or procured pursuant to this subsection shall meet  
476 the competitive procurement protocols established in subdivision D 3. For all such energy storage projects,  
477 the utility shall demonstrate to the Commission that its procurement sought proposals for both the purchase

478 *of storage capacity and the purchase of storage facilities and evaluated the comparative costs, risk*  
479 *allocation, ownership implications, and impact on customers of each proposal received.*

480 ~~5.~~ 8. After July 1, 2020, at least 35 percent of the energy storage facilities placed into service shall be (i)  
481 purchased by the public utility from a party other than the public utility or (ii) owned by a party other than a  
482 public utility, with the capacity from such facilities sold to the public utility. By January 1, ~~2024~~ 2027, the  
483 Commission shall adopt regulations to achieve the deployment of energy storage for the Commonwealth  
484 required in subdivisions 1 and 2, including regulations that set interim targets *from 2031 until 2045* and  
485 update existing utility planning and procurement rules. The regulations shall include programs and  
486 mechanisms to deploy energy storage, including competitive solicitations, behind-the-meter incentives,  
487 non-wires alternatives programs, and peak demand reduction programs. *The Commission shall update such*  
488 *regulations no less frequently than every five years.*

489 *9. If a Phase I or Phase II Utility newly acquires the right, by contract or otherwise, to energy storage*  
490 *capacity from pumped storage facilities located in the Commonwealth, or makes investments to increase the*  
491 *electrical capacity of any such facility, such newly acquired or increased pumped storage capacity shall*  
492 *count toward the requirements of subdivision E 1 or 2 of § 56-585.5.*

493 F. All costs incurred by a Phase I or Phase II Utility related to compliance with the requirements of this  
494 section or pursuant to § 56-585.1:11, including (i) costs of generation facilities powered by sunlight or  
495 onshore or offshore wind, or energy storage facilities, that are constructed or acquired by a Phase I or Phase II  
496 Utility after July 1, 2020, (ii) costs of capacity, energy, or environmental attributes from generation facilities  
497 powered by sunlight or onshore or offshore wind, or falling water, or energy storage facilities purchased by  
498 the utility from persons other than the utility through agreements after July 1, 2020, and (iii) all other costs of  
499 compliance, including costs associated with the purchase of RECs associated with RPS Program  
500 requirements pursuant to this section shall be recovered from all retail customers in the service territory of a  
501 Phase I or Phase II Utility as a non-bypassable charge, irrespective of the generation supplier of such  
502 customer, except (a) as provided in subsection G for an accelerated renewable energy buyer or (b) as  
503 provided in subdivision C 3 of § 56-585.1:11, with respect to the costs of an offshore wind generation  
504 facility, for a PIPP eligible utility customer or an advanced clean energy buyer or qualifying large general  
505 service customer, as those terms are defined in § 56-585.1:11. If a Phase I or Phase II Utility serves  
506 customers in more than one jurisdiction, such utility shall recover all of the costs of compliance with the RPS  
507 Program requirements from its Virginia customers through the applicable cost recovery mechanism, and all  
508 associated energy, capacity, and environmental attributes shall be assigned to Virginia to the extent that such

509 costs are requested but not recovered from any system customers outside the Commonwealth.

510 By September 1, 2020, the Commission shall direct the initiation of a proceeding for each Phase I and  
511 Phase II Utility to review and determine the amount of such costs, net of benefits, that should be allocated to  
512 retail customers within the utility's service territory which have elected to receive electric supply service from  
513 a supplier of electric energy other than the utility, and shall direct that tariff provisions be implemented to  
514 recover those costs from such customers beginning no later than January 1, 2021. Thereafter, such charges  
515 and tariff provisions shall be updated and trued up by the utility on an annual basis, subject to continuing  
516 review and approval by the Commission.

517 G. 1. An accelerated renewable energy buyer may contract with a Phase I or Phase II Utility, or a person  
518 other than a Phase I or Phase II Utility, to obtain (i) RECs from RPS eligible resources or (ii) bundled  
519 capacity, energy, and RECs from solar or, wind, or zero-carbon electricity generation resources located  
520 within the PJM region and initially placed in commercial operation after January 1, 2015, including any  
521 contract with a utility for such generation resources that does not allocate the cost of such resources to or  
522 recover the cost of such resources from any other customers of the utility that have not voluntarily agreed to  
523 pay such cost. Such an accelerated renewable energy buyer may offset all or a portion of its electric load for  
524 purposes of RPS compliance through such arrangements. An accelerated renewable energy buyer shall be  
525 exempt from the assignment of non-bypassable RPS compliance costs pursuant to subsection F, with the  
526 exception of the costs of an offshore wind generating facility pursuant to § 56-585.1:11, based on the amount  
527 of RECs obtained pursuant to this subsection in proportion to the customer's total electric energy  
528 consumption, on an annual basis. An accelerated renewable energy buyer may also contract with a Phase I or  
529 Phase II Utility, or a person other than a Phase I or Phase II Utility, to obtain capacity from energy storage  
530 facilities located within the network service area of the utility pursuant to this subsection, provided that the  
531 costs of such resources are not recovered from any of the utility's customers who have not voluntarily agreed  
532 to pay for such costs. Such accelerated renewable energy buyer shall be exempt from the assignment of  
533 non-bypassable RPS Program compliance costs specifically associated with energy storage facilities pursuant  
534 to this subsection in proportion to the customer's total capacity demand on an annual basis. An accelerated  
535 renewable energy buyer obtaining RECs only shall not be exempt from costs related to procurement of new  
536 solar or onshore wind generation capacity, energy, or environmental attributes, or energy storage facilities, by  
537 the utility pursuant to subsections D and E, however, an accelerated renewable energy buyer that is a  
538 customer of a Phase II Utility and was subscribed, as of March 1, 2020, to a voluntary companion  
539 experimental tariff offering of the utility for the purchase of renewable attributes from renewable energy

540 facilities that requires a renewable facilities agreement and the purchase of a minimum of 2,000 renewable  
541 attributes annually, shall be exempt from allocation of the net costs related to procurement of new solar or  
542 onshore wind generation capacity, energy, or environmental attributes, or energy storage facilities, by the  
543 utility pursuant to subsections D and E, based on the amount of RECs associated with the customer's  
544 renewable facilities agreements associated with such tariff offering as of that date in proportion to the  
545 customer's total electric energy consumption, on an annual basis. To the extent that an accelerated renewable  
546 energy buyer contracts for the capacity of new solar or wind generation resources or energy storage facilities  
547 pursuant to this subsection, the aggregate amount of such nameplate capacity shall be offset from the utility's  
548 procurement requirements pursuant to subsection D. All RECs associated with contracts entered into by an  
549 accelerated renewable energy buyer with the utility, or a person other than the utility, for an RPS Program  
550 shall not be credited to the utility's compliance with its RPS requirements, and the calculation of the utility's  
551 RPS Program requirements shall not include the electric load covered by customers certified as accelerated  
552 renewable energy buyers.

553 2. Each Phase I or Phase II Utility shall certify, and verify as necessary, to the Commission that the  
554 accelerated renewable energy buyer has satisfied the exemption requirements of this subsection for each year,  
555 or an accelerated renewable energy buyer may choose to certify satisfaction of this exemption by reporting to  
556 the Commission individually. The Commission may promulgate such rules and regulations as may be  
557 necessary to implement the provisions of this subsection.

558 3. Provided that no incremental costs associated with any contract between a Phase I or Phase II Utility  
559 and an accelerated renewable energy buyer is allocated to or recovered from any other customer of the utility,  
560 any such contract with an accelerated renewable energy buyer that is a jurisdictional customer of the utility  
561 shall not be deemed a special rate or contract requiring Commission approval pursuant to § 56-235.2.

562 4. The State Corporation Commission shall ensure that any distribution and transmission costs associated  
563 with new energy generation resources procured pursuant to subsection G of § 56-585.5 of the Code of  
564 Virginia, as amended by this act, are justly and reasonably allocated.

565 H. No customer of a Phase II Utility with a peak demand in excess of 100 megawatts in 2019 that elected  
566 pursuant to subdivision A 3 of § 56-577 to purchase electric energy from a competitive service provider prior  
567 to April 1, 2019, shall be allocated any non-bypassable charges pursuant to subsection F for such period that  
568 the customer is not purchasing electric energy from the utility, and such customer's electric load shall not be  
569 included in the utility's RPS Program requirements. No customer of a Phase I Utility that elected pursuant to  
570 subdivision A 3 of § 56-577 to purchase electric energy from a competitive service provider prior to February

571 1, 2019, shall be allocated any non-bypassable charges pursuant to subsection F for such period that the  
572 customer is not purchasing electric energy from the utility, and such customer's electric load shall not be  
573 included in the utility's RPS Program requirements.

574 I. In any petition by a Phase I or Phase II Utility for a certificate of public convenience and necessity to  
575 construct and operate an electrical generating facility that generates electric energy derived from sunlight  
576 submitted pursuant to § 56-580, such utility shall demonstrate that the proposed facility was subject to  
577 competitive procurement or solicitation as set forth in subdivision D 3.

578 J. Notwithstanding any contrary provision of law, for the purposes of this section, any falling water  
579 generation facility located in the Commonwealth and commencing commercial operations prior to July 1,  
580 2024, shall be considered a renewable energy portfolio standard (RPS) eligible source.

581 K. Nothing in this section shall apply to any entity organized under Chapter 9.1 (§ 56-231.15 et seq.).

582 L. The Commission shall adopt such rules and regulations as may be necessary to implement the  
583 provisions of this section, including a requirement that participants verify whether the RPS Program  
584 requirements are met in accordance with this section.

585 **2. That it is the policy of the Commonwealth to further the evaluation and growth of existing and new**  
586 **energy storage technologies, including short-duration energy storage and long-duration energy storage,**  
587 **as those terms are defined in subsection E of § 56-585.5 of the Code of Virginia, as amended by this act,**  
588 **in bolstering reliability of the electric grid and resource adequacy needs. The State Corporation**  
589 **Commission (the Commission) shall consider such policy in evaluating petitions by a Phase I or Phase**  
590 **II Utility, as those terms are defined in subdivision A 1 of § 56-585.1 of the Code of Virginia, to**  
591 **construct, acquire, or procure short-duration or long-duration energy storage resources pursuant to**  
592 **subsection E of § 56-585.5 of the Code of Virginia, as amended by this act. The Commission shall also**  
593 **consider such policy, and the role of energy storage resources in complementing the integration of**  
594 **renewable energy generation in the electric grid, in evaluating petitions related to energy storage**  
595 **resources and front-of-meter resiliency solutions for critical electrical infrastructure.**

596 **3. That the State Corporation Commission (the Commission) shall establish a technology**  
597 **demonstration program for long-duration energy storage, as defined in subsection E of § 56-585.5 of**  
598 **the Code of Virginia, as amended by this act, to evaluate the feasibility, effectiveness, and reliability**  
599 **benefits of such resources. Such program shall provide for a Phase II Utility, as defined in subdivision**  
600 **A 1 of § 56-585.1 of the Code of Virginia, to petition the Commission for approval to construct,**  
601 **acquire, or procure at least three different long-duration energy storage technologies with a cumulative**

602 discharge capacity of at least 4,000 megawatt-hours, unless the Commission in its discretion determines  
603 that long-duration energy storage resources are not reasonably available in sufficient quantities to  
604 support such petitions. Such program shall also provide that the Phase II Utility may include any long-  
605 duration energy storage resources existing at the time of such petition in such aggregate capacity. In  
606 performing the technology demonstration as established by the Commission, a Phase II Utility shall  
607 make a reasonable good-faith effort to secure appropriate sources of funding from the U.S.  
608 Department of Energy. A Phase II Utility shall report technology demonstration program progress and  
609 outcomes to the Commission no later than October 1, 2030. Such report shall include the progress and  
610 outcomes of all long-duration energy storage projects developed by the utility. Such report may also  
611 include data regarding the costs of projects included in the technology demonstration program, the  
612 ease and ability to procure necessary supply chain elements supporting long-duration energy storage,  
613 the relative ease associated with siting long-duration energy storage resources, and any other data that  
614 the Commission or Phase II Utility deems relevant.

615 4. That the provisions of subdivisions E 3 and 4 of § 56-585.5 of the Code of Virginia, as amended by  
616 this act, shall become effective only upon a determination by the State Corporation Commission (the  
617 Commission) that the technology referenced in such subdivisions is technically viable and that the  
618 construction, acquisition, or procurement targets referenced in such subdivisions are reasonably  
619 achievable. The Commission shall initiate a proceeding to make such determination or alternatively  
620 propose modified targets and interim targets for the construction, acquisition, or procurement of such  
621 technology upon receipt of the report by a Phase II Utility as required by the third enactment of this  
622 act and shall enter its final order in such proceeding no later than March 1, 2031. As part of such  
623 proceeding, the Commission shall also review the targets for short-duration energy storage specified in  
624 subdivisions E 1 and 2 of § 56-585.5 of the Code of Virginia, as amended by this act, and may adjust  
625 such targets based on the status of available energy storage technologies, the benefit to utility  
626 customers, and benefits to the security and reliability of the electric grid. The Commission shall use all  
627 available data and information relating to such technology in the proceeding, including the details and  
628 results of long-duration energy storage projects, whether operational or under development, located  
629 outside the Commonwealth. In the event the Commission does not determine that such technology and  
630 targets are viable and achievable, nothing in this act shall prohibit the Commission from initiating  
631 future proceedings in its own discretion or upon a petition by an interested party to assess such  
632 technology and targets.

633 5. That the State Corporation Commission (the Commission) shall update its regulations to achieve the  
634 deployment of energy storage in the Commonwealth, including regulations that set any interim targets  
635 from 2031 until 2045 that the Commission, in its discretion, finds to be reasonable with the provisions  
636 of subdivisions E 1 and 2 of § 56-585.5 of the Code of Virginia, as amended by this act. Upon making  
637 the determination pursuant to the fourth enactment of this act, the Commission shall promulgate  
638 regulations reflecting any interim targets it finds reasonable with the provisions of subdivisions E 3 and  
639 4 of § 56-585.5 of the Code of Virginia, as amended by this act.

640 6. That the State Corporation Commission shall initiate a technical conference no later than September  
641 1, 2026, to evaluate nationwide safety standards and practices around short-duration energy storage  
642 development, including the most updated version of the National Fire Protection Association 855  
643 Standard for the Installation of Stationary Energy Storage Systems, and the reasonableness and  
644 prudence of the safety standards required by a Phase I and Phase II Utility, as defined in subdivision A  
645 1 of § 56-585.1 of the Code of Virginia.

646 7. That, in considering each applicable electric utility's petition filed in 2026 pursuant to subdivision D  
647 4 of § 56-585.5 of the Code of Virginia, as amended by this act, the State Corporation Commission (the  
648 Commission) shall conduct an evaluation of the proposal requirements and evaluation criteria used by  
649 the utility in any solicitation for energy storage project proposals issued in furtherance of the  
650 provisions of subsection E of § 56-585.5 of the Code of Virginia, as amended by this act. If the  
651 Commission, in its discretion, determines that any such requirements or criteria are unreasonable for  
652 purposes of (i) protecting public safety, (ii) ensuring the reliability and security of electric service, and  
653 (iii) promoting the submission of cost-beneficial proposals, it may direct the applicable utility to modify  
654 such requirements or criteria. In making such determination, the Commission may consider, to the  
655 extent practicable, how the energy storage project proposals included in each utility's prior filings  
656 pursuant to subdivision D 4 of § 56-585.5 of the Code of Virginia, as amended by this act, may have  
657 differed under less stringent proposal requirements or evaluation criteria. For any competitive  
658 solicitation issued in 2026 seeking energy storage proposals for acquisition to support petitions filed  
659 pursuant to subdivision D 4 of § 56-585.5 of the Code of Virginia, as amended by this act, no utility  
660 shall prohibit the submission of energy storage proposals for acquisition that comply with the most  
661 recently published edition of the National Fire Protection Association 855 Standard for the Installation  
662 of Stationary Energy Utility Scale Storage Systems. Each applicable utility shall revise and reissue the  
663 requirements relative to energy storage proposals for acquisition within any such competitive

664 solicitation issued prior to July 1, 2026, if necessary to comply with the provisions of this enactment.  
665 Nothing in this act shall be construed to limit the Commission's discretion to revisit such proposal  
666 requirements and evaluation criteria in subsequent proceedings.