

2021 SPECIAL SESSION I

SENATE SUBSTITUTE

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SENATE BILL NO. 1284

AMENDMENT IN THE NATURE OF A SUBSTITUTE
(Proposed by the Senate Committee on Commerce and Labor
on February 1, 2021)

(Patron Prior to Substitute—Senator Favola)

A *BILL to amend and reenact §§ 56-46.1, 56-585.1, 56-598, 56-601, 62.1-199, 67-103, 67-104, and 67-201 of the Code of Virginia; to amend the Code of Virginia by adding a section numbered 67-101.1; and to repeal §§ 67-101 and 67-102 of the Code of Virginia, relating to the Commonwealth Energy Policy.*

Be it enacted by the General Assembly of Virginia:

1. That §§ 56-46.1, 56-585.1, 56-598, 56-601, 62.1-199, 67-103, 67-104, and 67-201 of the Code of Virginia are amended and reenacted and that the Code of Virginia is amended by adding a section numbered 67-101.1 as follows:

§ 56-46.1. Commission to consider environmental, economic and improvements in service reliability factors in approving construction of electrical utility facilities; approval required for construction of certain electrical transmission lines; notice and hearings.

A. Whenever the Commission is required to approve the construction of any electrical utility facility, it shall give consideration to the effect of that facility on the environment and establish such conditions as may be desirable or necessary to minimize adverse environmental impact. In order to avoid duplication of governmental activities, any valid permit or approval required for an electric generating plant and associated facilities issued or granted by a federal, state or local governmental entity charged by law with responsibility for issuing permits or approvals regulating environmental impact and mitigation of adverse environmental impact or for other specific public interest issues such as building codes, transportation plans, and public safety, whether such permit or approval is granted prior to or after the Commission's decision, shall be deemed to satisfy the requirements of this section with respect to all matters that (i) are governed by the permit or approval or (ii) are within the authority of, and were considered by, the governmental entity in issuing such permit or approval, and the Commission shall impose no additional conditions with respect to such matters. Nothing in this section shall affect the ability of the Commission to keep the record of a case open. Nothing in this section shall affect any right to appeal such permits or approvals in accordance with applicable law. In the case of a proposed facility located in a region that was designated as of July 1, 2001, as serious nonattainment for the one-hour ozone standard as set forth in the federal Clean Air Act, the Commission shall not issue a decision approving such proposed facility that is conditioned upon issuance of any environmental permit or approval. In every proceeding under this subsection, the Commission shall receive and give consideration to all reports that relate to the proposed facility by state agencies concerned with environmental protection; and if requested by any county or municipality in which the facility is proposed to be built, to local comprehensive plans that have been adopted pursuant to Article 3 (§ 15.2-2223 et seq.) of Chapter 22 of Title 15.2. Additionally, the Commission (a) shall consider the effect of the proposed facility on economic development within the Commonwealth, including but not limited to furtherance of the economic and job creation objectives of the Commonwealth *Clean Energy* Policy set forth in ~~§§ 67-101 and 67-102~~ § 67-101.1, and (b) shall consider any improvements in service reliability that may result from the construction of such facility.

B. Subject to the provisions of subsection J, no electrical transmission line of 138 kilovolts or more shall be constructed unless the State Corporation Commission shall, after at least 30 days' advance notice by (i) publication in a newspaper or newspapers of general circulation in the counties and municipalities through which the line is proposed to be built, (ii) written notice to the governing body of each such county and municipality, and (iii) causing to be sent a copy of the notice by first class mail to all owners of property within the route of the proposed line, as indicated on the map or sketch of the route filed with the Commission, which requirement shall be satisfied by mailing the notice to such persons at such addresses as are indicated in the land books maintained by the commissioner of revenue, director of finance or treasurer of the county or municipality, approve such line. Such notices shall include a written description of the proposed route the line is to follow, as well as a map or sketch of the route including a digital geographic information system (GIS) map provided by the public utility showing the location of the proposed route. The Commission shall make GIS maps provided under this subsection available to the public on the Commission's website. Such notices shall be in addition to the advance notice to the chief administrative officer of the county or municipality required pursuant to § 15.2-2202.

As a condition to approval the Commission shall determine that the line is needed and that the corridor or route chosen for the line will avoid or reasonably minimize adverse impact to the greatest

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60 extent reasonably practicable on the scenic assets, historic resources recorded with the Department of
61 Historic Resources, and environment of the area concerned. To assist the Commission in this
62 determination, as part of the application for Commission approval of the line, the applicant shall
63 summarize its efforts to avoid or reasonably minimize adverse impact to the greatest extent reasonably
64 practicable on the scenic assets, historic resources recorded with the Department of Historic Resources,
65 and environment of the area concerned. In making the determinations about need, corridor or route, and
66 method of installation, the Commission shall verify the applicant's load flow modeling, contingency
67 analyses, and reliability needs presented to justify the new line and its proposed method of installation.
68 If the local comprehensive plan of an affected county or municipality designates corridors or routes for
69 electric transmission lines and the line is proposed to be constructed outside such corridors or routes, in
70 any hearing the county or municipality may provide adequate evidence that the existing planned
71 corridors or routes designated in the plan can adequately serve the needs of the company. Additionally,
72 the Commission shall consider, upon the request of the governing body of any county or municipality in
73 which the line is proposed to be constructed, (a) the costs and economic benefits likely to result from
74 requiring the underground placement of the line and (b) any potential impediments to timely
75 construction of the line.

76 C. If, prior to such approval, any interested party shall request a public hearing, the Commission
77 shall, as soon as reasonably practicable after such request, hold such hearing or hearings at such place as
78 may be designated by the Commission. In any hearing the public service company shall provide
79 adequate evidence that existing rights-of-way cannot adequately serve the needs of the company.

80 If, prior to such approval, written requests therefor are received from the governing body of any
81 county or municipality through which the line is proposed to be built or from 20 or more interested
82 parties, the Commission shall hold at least one hearing in the area that would be affected by
83 construction of the line, for the purpose of receiving public comment on the proposal. If any hearing is
84 to be held in the area affected, the Commission shall direct that a copy of the transcripts of any
85 previous hearings held in the case be made available for public inspection at a convenient location in the
86 area for a reasonable time before such local hearing.

87 D. As used in this section, unless the context requires a different meaning:

88 "Environment" or "environmental" shall be deemed to include in meaning "historic," as well as a
89 consideration of the probable effects of the line on the health and safety of the persons in the area
90 concerned.

91 "Interested parties" shall include the governing bodies of any counties or municipalities through
92 which the line is proposed to be built, and persons residing or owning property in each such county or
93 municipality.

94 "Public utility" means a public utility as defined in § 56-265.1.

95 "Qualifying facilities" means a cogeneration or small power production facility which meets the
96 criteria of 18 C.F.R. Part 292.

97 "Reasonably accommodate requests to wheel or transmit power" means:

98 1. That the applicant will make available to new electric generation facilities constructed after
99 January 9, 1991, qualifying facilities and other nonutilities, a minimum of one-fourth of the total
100 megawatts of the additional transmission capacity created by the proposed line, for the purpose of
101 wheeling to public utility purchasers the power generated by such qualifying facilities and other
102 nonutility facilities which are awarded a power purchase contract by a public utility purchaser in
103 compliance with applicable state law or regulations governing bidding or capacity acquisition programs
104 for the purchase of electric capacity from nonutility sources, provided that the obligation of the applicant
105 will extend only to those requests for wheeling service made within the 12 months following
106 certification by the State Corporation Commission of the transmission line and with effective dates for
107 commencement of such service within the 12 months following completion of the transmission line; and

108 2. That the wheeling service offered by the applicant, pursuant to subdivision D 1, will reasonably
109 further the purposes of the Public Utilities Regulatory Policies Act of 1978 (P. L. 95-617), as
110 demonstrated by submitting to the Commission, with its application for approval of the line, the cost
111 methodologies, terms, conditions, and dispatch and interconnection requirements the applicant intends,
112 subject to any applicable requirements of the Federal Energy Regulatory Commission, to include in its
113 agreements for such wheeling service.

114 E. In the event that, at any time after the giving of the notice required in subsection B, it appears to
115 the Commission that consideration of a route or routes significantly different from the route described in
116 the notice is desirable, the Commission shall cause notice of the new route or routes to be published and
117 mailed in accordance with subsection B. The Commission shall thereafter comply with the provisions of
118 this section with respect to the new route or routes to the full extent necessary to give affected localities
119 and interested parties in the newly affected areas the same protection afforded to affected localities and
120 interested parties affected by the route described in the original notice.

121 F. Approval of a transmission line pursuant to this section shall be deemed to satisfy the

requirements of § 15.2-2232 and local zoning ordinances with respect to such transmission line.

G. The Commission shall enter into a memorandum of agreement with the Department of Environmental Quality regarding the coordination of their reviews of the environmental impact of electric generating plants and associated facilities.

H. An applicant that is required to obtain (i) a certificate of public convenience and necessity from the Commission for any electric generating facility, electric transmission line, natural or manufactured gas transmission line as defined in 49 Code of Federal Regulations § 192.3, or natural or manufactured gas storage facility (hereafter, an energy facility) and (ii) an environmental permit for the energy facility that is subject to issuance by any agency or board within the Secretariat of Natural Resources, may request a pre-application planning and review process. In any such request to the Commission or the Secretariat of Natural Resources, the applicant shall identify the proposed energy facility for which it requests the pre-application planning and review process. The Commission, the Department of Environmental Quality, the Marine Resources Commission, the Department of Wildlife Resources, the Department of Historic Resources, the Department of Conservation and Recreation, and other appropriate agencies of the Commonwealth shall participate in the pre-application planning and review process. Participation in such process shall not limit the authority otherwise provided by law to the Commission or other agencies or boards of the Commonwealth. The Commission and other participating agencies of the Commonwealth may invite federal and local governmental entities charged by law with responsibility for issuing permits or approvals to participate in the pre-application planning and review process. Through the pre-application planning and review process, the applicant, the Commission, and other agencies and boards shall identify the potential impacts and approvals that may be required and shall develop a plan that will provide for an efficient and coordinated review of the proposed energy facility. The plan shall include (a) a list of the permits or other approvals likely to be required based on the information available, (b) a specific plan and preliminary schedule for the different reviews, (c) a plan for coordinating those reviews and the related public comment process, and (d) designation of points of contact, either within each agency or for the Commonwealth as a whole, to facilitate this coordination. The plan shall be made readily available to the public and shall be maintained on a dedicated website to provide current information on the status of each component of the plan and each approval process including opportunities for public comment.

I. The provisions of this section shall not apply to the construction and operation of a small renewable energy project, as defined in § 10.1-1197.5, by a utility regulated pursuant to this title for which the Department of Environmental 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.

J. Approval under this section shall not be required for any transmission line for which a certificate of public convenience and necessity is not required pursuant to subdivision A of § 56-265.2.

§ 56-585.1. Generation, distribution, and transmission rates after capped rates terminate or expire.

A. During the first six months of 2009, the Commission shall, after notice and opportunity for hearing, initiate proceedings to review the rates, terms and conditions for the provision of generation, distribution and transmission services of each investor-owned incumbent electric utility. Such proceedings shall be governed by the provisions of Chapter 10 (§ 56-232 et seq.), except as modified herein. In such proceedings the Commission shall determine fair rates of return on common equity applicable to the generation and distribution services of the utility. In so doing, the Commission may use any methodology to determine such return it finds consistent with the public interest, but such return shall not be set lower than the average of the returns on common equity reported to the Securities and Exchange Commission for the three most recent annual periods for which such data are available by not less than a majority, selected by the Commission as specified in subdivision 2 b, of other investor-owned electric utilities in the peer group of the utility, nor shall the Commission set such return more than 300 basis points higher than such average. The peer group of the utility shall be determined in the manner prescribed in subdivision 2 b. The Commission may increase or decrease such combined rate of return by up to 100 basis points based on the generating plant performance, customer service, and operating efficiency of a utility, as compared to nationally recognized standards determined by the Commission to be appropriate for such purposes. In such a proceeding, the Commission shall determine the rates that the utility may charge until such rates are adjusted. If the Commission finds that the utility's combined rate of return on common equity is more than 50 basis points below the combined rate of return as so determined, it shall be authorized to order increases to the utility's rates necessary to provide the opportunity to fully recover the costs of providing the utility's services and to earn not less than such combined rate of return. If the Commission finds that the utility's combined rate of return on common equity is more than 50 basis points above the combined rate of return as so determined, it shall be authorized either (i) to order reductions to the utility's rates it finds appropriate, provided that the Commission may not order such rate reduction unless it finds that the resulting rates will provide the

183 utility with the opportunity to fully recover its costs of providing its services and to earn not less than
184 the fair rates of return on common equity applicable to the generation and distribution services; or (ii) to
185 direct that 60 percent of the amount of the utility's earnings that were more than 50 basis points above
186 the fair combined rate of return for calendar year 2008 be credited to customers' bills, in which event
187 such credits shall be amortized over a period of six to 12 months, as determined at the discretion of the
188 Commission, following the effective date of the Commission's order and be allocated among customer
189 classes such that the relationship between the specific customer class rates of return to the overall target
190 rate of return will have the same relationship as the last approved allocation of revenues used to design
191 base rates. Commencing in 2011, the Commission, after notice and opportunity for hearing, shall
192 conduct reviews of the rates, terms and conditions for the provision of generation, distribution and
193 transmission services by each investor-owned incumbent electric utility, subject to the following
194 provisions:

195 1. Rates, terms and conditions for each service shall be reviewed separately on an unbundled basis,
196 and such reviews shall be conducted in a single, combined proceeding. Pursuant to subsection A of
197 § 56-585.1:1, the Commission shall conduct a review for a Phase I Utility in 2020, utilizing the three
198 successive 12-month test periods beginning January 1, 2017, and ending December 31, 2019. Thereafter,
199 reviews for a Phase I Utility will be on a triennial basis with subsequent proceedings utilizing the three
200 successive 12-month test periods ending December 31 immediately preceding the year in which such
201 review proceeding is conducted. Pursuant to subsection A of § 56-585.1:1, the Commission shall conduct
202 a review for a Phase II Utility in 2021, utilizing the four successive 12-month test periods beginning
203 January 1, 2017, and ending December 31, 2020, with subsequent reviews on a triennial basis utilizing
204 the three successive 12-month test periods ending December 31 immediately preceding the year in which
205 such review proceeding is conducted. All such reviews occurring after December 31, 2017, shall be
206 referred to as triennial reviews. For purposes of this section, a Phase I Utility is an investor-owned
207 incumbent electric utility that was, as of July 1, 1999, not bound by a rate case settlement adopted by
208 the Commission that extended in its application beyond January 1, 2002, and a Phase II Utility is an
209 investor-owned incumbent electric utility that was bound by such a settlement.

210 2. Subject to the provisions of subdivision 6, the fair rate of return on common equity applicable
211 separately to the generation and distribution services of such utility, and for the two such services
212 combined, and for any rate adjustment clauses approved under subdivision 5 or 6, shall be determined
213 by the Commission during each such triennial review, as follows:

214 a. The Commission may use any methodology to determine such return it finds consistent with the
215 public interest, but for applications received by the Commission on or after January 1, 2020, such return
216 shall not be set lower than the average of either (i) the returns on common equity reported to the
217 Securities and Exchange Commission for the three most recent annual periods for which such data are
218 available by not less than a majority, selected by the Commission as specified in subdivision 2 b, of
219 other investor-owned electric utilities in the peer group of the utility subject to such triennial review or
220 (ii) the authorized returns on common equity that are set by the applicable regulatory commissions for
221 the same selected peer group, nor shall the Commission set such return more than 150 basis points
222 higher than such average.

223 b. In selecting such majority of peer group investor-owned electric utilities for applications received
224 by the Commission on or after January 1, 2020, the Commission shall first remove from such group the
225 two utilities within such group that have the lowest reported or authorized, as applicable, returns of the
226 group, as well as the two utilities within such group that have the highest reported or authorized, as
227 applicable, returns of the group, and the Commission shall then select a majority of the utilities
228 remaining in such peer group. In its final order regarding such triennial review, the Commission shall
229 identify the utilities in such peer group it selected for the calculation of such limitation. For purposes of
230 this subdivision, an investor-owned electric utility shall be deemed part of such peer group if (i) its
231 principal operations are conducted in the southeastern United States east of the Mississippi River in
232 either the states of West Virginia or Kentucky or in those states south of Virginia, excluding the state of
233 Tennessee, (ii) it is a vertically-integrated electric utility providing generation, transmission and
234 distribution services whose facilities and operations are subject to state public utility regulation in the
235 state where its principal operations are conducted, (iii) it had a long-term bond rating assigned by
236 Moody's Investors Service of at least Baa at the end of the most recent test period subject to such
237 triennial review, and (iv) it is not an affiliate of the utility subject to such triennial review.

238 c. The Commission may, consistent with its precedent for incumbent electric utilities prior to the
239 enactment of Chapters 888 and 933 of the Acts of Assembly of 2007, increase or decrease the utility's
240 combined rate of return based on the Commission's consideration of the utility's performance.

241 d. In any Current Proceeding, the Commission shall determine whether the Current Return has
242 increased, on a percentage basis, above the Initial Return by more than the increase, expressed as a
243 percentage, in the United States Average Consumer Price Index for all items, all urban consumers
244 (CPI-U), as published by the Bureau of Labor Statistics of the United States Department of Labor, since

the date on which the Commission determined the Initial Return. If so, the Commission may conduct an additional analysis of whether it is in the public interest to utilize such Current Return for the Current Proceeding then pending. A finding of whether the Current Return justifies such additional analysis shall be made without regard to any enhanced rate of return on common equity awarded pursuant to the provisions of subdivision 6. Such additional analysis shall include, but not be limited to, a consideration of overall economic conditions, the level of interest rates and cost of capital with respect to business and industry, in general, as well as electric utilities, the current level of inflation and the utility's cost of goods and services, the effect on the utility's ability to provide adequate service and to attract capital if less than the Current Return were utilized for the Current Proceeding then pending, and such other factors as the Commission may deem relevant. If, as a result of such analysis, the Commission finds that use of the Current Return for the Current Proceeding then pending would not be in the public interest, then the lower limit imposed by subdivision 2 a on the return to be determined by the Commission for such utility shall be calculated, for that Current Proceeding only, by increasing the Initial Return by a percentage at least equal to the increase, expressed as a percentage, in the United States Average Consumer Price Index for all items, all urban consumers (CPI-U), as published by the Bureau of Labor Statistics of the United States Department of Labor, since the date on which the Commission determined the Initial Return. For purposes of this subdivision:

"Current Proceeding" means any proceeding conducted under any provisions of this subsection that require or authorize the Commission to determine a fair combined rate of return on common equity for a utility and that will be concluded after the date on which the Commission determined the Initial Return for such utility.

"Current Return" means the minimum fair combined rate of return on common equity required for any Current Proceeding by the limitation regarding a utility's peer group specified in subdivision 2 a.

"Initial Return" means the fair combined rate of return on common equity determined for such utility by the Commission on the first occasion after July 1, 2009, under any provision of this subsection pursuant to the provisions of subdivision 2 a.

e. In addition to other considerations, in setting the return on equity within the range allowed by this section, the Commission shall strive to maintain costs of retail electric energy that are cost competitive with costs of retail electric energy provided by the other peer group investor-owned electric utilities.

f. The determination of such returns shall be made by the Commission on a stand-alone basis, and specifically without regard to any return on common equity or other matters determined with regard to facilities described in subdivision 6.

g. If the combined rate of return on common equity earned by the generation and distribution services is no more than 50 basis points above or below the return as so determined or, for any test period commencing after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, such return is no more than 70 basis points above or below the return as so determined, such combined return shall not be considered either excessive or insufficient, respectively. However, for any test period commencing after December 31, 2012, for a Phase II Utility, and after December 31, 2013, for a Phase I Utility, if the utility has, during the test period or periods under review, earned below the return as so determined, whether or not such combined return is within 70 basis points of the return as so determined, the utility may petition the Commission for approval of an increase in rates in accordance with the provisions of subdivision 8 a as if it had earned more than 70 basis points below a fair combined rate of return, and such proceeding shall otherwise be conducted in accordance with the provisions of this section. The provisions of this subdivision are subject to the provisions of subdivision 8.

h. Any amount of a utility's earnings directed by the Commission to be credited to customers' bills pursuant to this section shall not be considered for the purpose of determining the utility's earnings in any subsequent triennial review.

3. Each such utility shall make a triennial filing by March 31 of every third year, with such filings commencing for a Phase I Utility in 2020, and such filings commencing for a Phase II Utility in 2021, consisting of the schedules contained in the Commission's rules governing utility rate increase applications. Such filing shall encompass the three successive 12-month test periods ending December 31 immediately preceding the year in which such proceeding is conducted, except that the filing for a Phase II Utility in 2021 shall encompass the four successive 12-month test periods ending December 31, 2020, and in every such case the filing for each year shall be identified separately and shall be segregated from any other year encompassed by the filing. If the Commission determines that rates should be revised or credits be applied to customers' bills pursuant to subdivision 8 or 9, any rate adjustment clauses previously implemented related to facilities utilizing simple-cycle combustion turbines described in subdivision 6, shall be combined with the utility's costs, revenues and investments until the amounts that are the subject of such rate adjustment clauses are fully recovered. The Commission shall combine such clauses with the utility's costs, revenues and investments only after it makes its initial

determination with regard to necessary rate revisions or credits to customers' bills, and the amounts thereof, but after such clauses are combined as herein specified, they shall thereafter be considered part of the utility's costs, revenues, and investments for the purposes of future triennial review proceedings. In a triennial filing under this subdivision that does not result in an overall rate change a utility may propose an adjustment to one or more tariffs that are revenue neutral to the utility.

4. (Expires December 31, 2023) The following costs incurred by the utility shall be deemed reasonable and prudent: (i) costs for transmission services provided to the utility by the regional transmission entity of which the utility is a member, as determined under applicable rates, terms and conditions approved by the Federal Energy Regulatory Commission; (ii) costs charged to the utility that are associated with demand response programs approved by the Federal Energy Regulatory Commission and administered by the regional transmission entity of which the utility is a member; and (iii) costs incurred by the utility to construct, operate, and maintain transmission lines and substations installed in order to provide service to a business park. Upon petition of a utility at any time after the expiration or termination of capped rates, but not more than once in any 12-month period, the Commission shall approve a rate adjustment clause under which such costs, including, without limitation, costs for transmission service; charges for new and existing transmission facilities, including costs incurred by the utility to construct, operate, and maintain transmission lines and substations installed in order to provide service to a business park; administrative charges; and ancillary service charges designed to recover transmission costs, shall be recovered on a timely and current basis from customers. Retail rates to recover these costs shall be designed using the appropriate billing determinants in the retail rate schedules.

4. (Effective January 1, 2024) The following costs incurred by the utility shall be deemed reasonable and prudent: (i) costs for transmission services provided to the utility by the regional transmission entity of which the utility is a member, as determined under applicable rates, terms and conditions approved by the Federal Energy Regulatory Commission, and (ii) costs charged to the utility that are associated with demand response programs approved by the Federal Energy Regulatory Commission and administered by the regional transmission entity of which the utility is a member. Upon petition of a utility at any time after the expiration or termination of capped rates, but not more than once in any 12-month period, the Commission shall approve a rate adjustment clause under which such costs, including, without limitation, costs for transmission service, charges for new and existing transmission facilities, administrative charges, and ancillary service charges designed to recover transmission costs, shall be recovered on a timely and current basis from customers. Retail rates to recover these costs shall be designed using the appropriate billing determinants in the retail rate schedules.

5. A utility may at any time, after the expiration or termination of capped rates, but not more than once in any 12-month period, petition the Commission for approval of one or more rate adjustment clauses for the timely and current recovery from customers of the following costs:

a. Incremental costs described in clause (vi) of subsection B of § 56-582 incurred between July 1, 2004, and the expiration or termination of capped rates, if such utility is, as of July 1, 2007, deferring such costs consistent with an order of the Commission entered under clause (vi) of subsection B of § 56-582. The Commission shall approve such a petition allowing the recovery of such costs that comply with the requirements of clause (vi) of subsection B of § 56-582;

b. Projected and actual costs for the utility to design and operate fair and effective peak-shaving programs or pilot programs. The Commission shall approve such a petition if it finds that the program is in the public interest, provided that the Commission shall allow the recovery of such costs as it finds are reasonable;

c. Projected and actual costs for the utility to design, implement, and operate energy efficiency programs or pilot programs. Any such petition shall include a proposed budget for the design, implementation, and operation of the energy efficiency program, including anticipated savings from and spending on each program, and the Commission shall grant a final order on such petitions within eight months of initial filing. The Commission shall only approve such a petition if it finds that the program is in the public interest. If the Commission determines that an energy efficiency program or portfolio of programs is not in the public interest, its final order shall include all work product and analysis conducted by the Commission's staff in relation to that program that has bearing upon the Commission's determination. Such order shall adhere to existing protocols for extraordinarily sensitive information.

Energy efficiency pilot programs are in the public interest provided that the pilot program is (i) of limited scope, cost, and duration and (ii) intended to determine whether a new or substantially revised program would be cost-effective.

Prior to January 1, 2022, the Commission shall award a margin for recovery on operating expenses for energy efficiency programs and pilot programs, which margin shall be equal to the general rate of return on common equity determined as described in subdivision 2. Beginning January 1, 2022, and thereafter, if the Commission determines that the utility meets in any year the annual energy efficiency standards set forth in § 56-596.2, in the following year, the Commission shall award a margin on energy

efficiency program operating expenses in that year, to be recovered through a rate adjustment clause, which margin shall be equal to the general rate of return on common equity determined as described in subdivision 2. If the Commission does not approve energy efficiency programs that, in the aggregate, can achieve the annual energy efficiency standards, the Commission shall award a margin on energy efficiency operating expenses in that year for any programs the Commission has approved, to be recovered through a rate adjustment clause under this subdivision, which margin shall equal the general rate of return on common equity determined as described in subdivision 2. Any margin awarded pursuant to this subdivision shall be applied as part of the utility's next rate adjustment clause true-up proceeding. The Commission shall also award an additional 20 basis points for each additional incremental 0.1 percent in annual savings in any year achieved by the utility's energy efficiency programs approved by the Commission pursuant to this subdivision, beyond the annual requirements set forth in § 56-596.2, provided that the total performance incentive awarded in any year shall not exceed 10 percent of that utility's total energy efficiency program spending in that same year.

The Commission shall annually monitor and report to the General Assembly the performance of all programs approved pursuant to this subdivision, including each utility's compliance with the total annual savings required by § 56-596.2, as well as the annual and lifecycle net and gross energy and capacity savings, related emissions reductions, and other quantifiable benefits of each program; total customer bill savings that the programs produce; utility spending on each program, including any associated administrative costs; and each utility's avoided costs and cost-effectiveness results.

Notwithstanding any other provision of law, unless the Commission finds in its discretion and after consideration of all in-state and regional transmission entity resources that there is a threat to the reliability or security of electric service to the utility's customers, the Commission shall not approve construction of any new utility-owned generating facilities that emit carbon dioxide as a by-product of combusting fuel to generate electricity unless the utility has already met the energy savings goals identified in § 56-596.2 and the Commission finds that supply-side resources are more cost-effective than demand-side or energy storage resources.

As used in this subdivision, "large general service customer" means a customer that has a verifiable history of having used more than one megawatt of demand from a single site.

Large general service customers shall be exempt from requirements that they participate in energy efficiency programs if the Commission finds that the large general service customer has, at the customer's own expense, implemented energy efficiency programs that have produced or will produce measured and verified results consistent with industry standards and other regulatory criteria stated in this section. The Commission shall, no later than June 30, 2021, adopt rules or regulations (a) establishing the process for large general service customers to apply for such an exemption, (b) establishing the administrative procedures by which eligible customers will notify the utility, and (c) defining the standard criteria that shall be satisfied by an applicant in order to notify the utility, including means of evaluation measurement and verification and confidentiality requirements. At a minimum, such rules and regulations shall require that each exempted large general service customer certify to the utility and Commission that its implemented energy efficiency programs have delivered measured and verified savings within the prior five years. In adopting such rules or regulations, the Commission shall also specify the timing as to when a utility shall accept and act on such notice, taking into consideration the utility's integrated resource planning process, as well as its administration of energy efficiency programs that are approved for cost recovery by the Commission. Savings from large general service customers shall be accounted for in utility reporting in the standards in § 56-596.2.

The notice of nonparticipation by a large general service customer shall be for the duration of the service life of the customer's energy efficiency measures. The Commission may on its own motion initiate steps necessary to verify such nonparticipant's achievement of energy efficiency if the Commission has a body of evidence that the nonparticipant has knowingly misrepresented its energy efficiency achievement.

A utility shall not charge such large general service customer for the costs of installing energy efficiency equipment beyond what is required to provide electric service and meter such service on the customer's premises if the customer provides, at the customer's expense, equivalent energy efficiency equipment. In all relevant proceedings pursuant to this section, the Commission shall take into consideration the goals of economic development, energy efficiency and environmental protection in the Commonwealth;

d. Projected and actual costs of compliance with renewable energy portfolio standard requirements pursuant to § 56-585.5 that are not recoverable under subdivision 6. The Commission shall approve such a petition allowing the recovery of such costs incurred as required by § 56-585.5, provided that the Commission does not otherwise find such costs were unreasonably or imprudently incurred;

e. Projected and actual costs of projects that the Commission finds to be necessary to mitigate impacts to marine life caused by construction of offshore wind generating facilities, as described in

§ 56-585.1:11, or to comply with state or federal environmental laws or regulations applicable to generation facilities used to serve the utility's native load obligations, including the costs of allowances purchased through a market-based trading program for carbon dioxide emissions. The Commission shall approve such a petition if it finds that such costs are necessary to comply with such environmental laws or regulations;

f. Projected and actual costs, not currently in rates, for the utility to design, implement, and operate programs approved by the Commission that accelerate the vegetation management of distribution rights-of-way. No costs shall be allocated to or recovered from customers that are served within the large general service rate classes for a Phase II Utility or that are served at subtransmission or transmission voltage, or take delivery at a substation served from subtransmission or transmission voltage, for a Phase I Utility; and

g. Projected and actual costs, not currently in rates, for the utility to design, implement, and operate programs approved by the Commission to provide incentives to (i) low-income, elderly, and disabled individuals or (ii) organizations providing residential services to low-income, elderly, and disabled individuals for the installation of, or access to, equipment to generate electric energy derived from sunlight, provided the low-income, elderly, and disabled individuals, or organizations providing residential services to low-income, elderly, and disabled individuals, first participate in incentive programs for the installation of measures that reduce heating or cooling costs.

Any rate adjustment clause approved under subdivision 5 c by the Commission shall remain in effect until the utility exhausts the approved budget for the energy efficiency program. The Commission shall have the authority to determine the duration or amortization period for any other rate adjustment clause approved under this subdivision.

6. To ensure the generation and delivery of a reliable and adequate supply of electricity, to meet the utility's projected native load obligations and to promote economic development, a utility may at any time, after the expiration or termination of capped rates, petition the Commission for approval of a rate adjustment clause for recovery on a timely and current basis from customers of the costs of (i) a coal-fueled generation facility that utilizes Virginia coal and is located in the coalfield region of the Commonwealth as described in § 15.2-6002, regardless of whether such facility is located within or without the utility's service territory, (ii) one or more other generation facilities, (iii) one or more major unit modifications of generation facilities, including the costs of any system or equipment upgrade, system or equipment replacement, or other cost reasonably appropriate to extend the combined operating license for or the operating life of one or more generation facilities utilizing nuclear power, (iv) one or more new underground facilities to replace one or more existing overhead distribution facilities of 69 kilovolts or less located within the Commonwealth, (v) one or more pumped hydroelectricity generation and storage facilities that utilize on-site or off-site renewable energy resources as all or a portion of their power source and such facilities and associated resources are located in the coalfield region of the Commonwealth as described in § 15.2-6002, regardless of whether such facility is located within or without the utility's service territory, or (vi) one or more electric distribution grid transformation projects; however, subject to the provisions of the following sentence, the utility shall not file a petition under clause (iv) more often than annually and, in such petition, shall not seek any annual incremental increase in the level of investments associated with such a petition that exceeds five percent of such utility's distribution rate base, as such rate base was determined for the most recently ended 12-month test period in the utility's latest review proceeding conducted pursuant to subdivision 3 and concluded by final order of the Commission prior to the date of filing of such petition under clause (iv). In all proceedings regarding petitions filed under clause (iv) or (vi), the level of investments approved for recovery in such proceedings shall be in addition to, and not in lieu of, levels of investments previously approved for recovery in prior proceedings under clause (iv) or (vi), as applicable. As of December 1, 2028, any costs recovered by a utility pursuant to clause (iv) shall be limited to any remaining costs associated with conversions of overhead distribution facilities to underground facilities that have been previously approved or are pending approval by the Commission through a petition by the utility under this subdivision. Such a petition concerning facilities described in clause (ii) that utilize nuclear power, facilities described in clause (ii) that are coal-fueled and will be built by a Phase I Utility, or facilities described in clause (i) may also be filed before the expiration or termination of capped rates. A utility that constructs or makes modifications to any such facility, or purchases any facility consisting of at least one megawatt of generating capacity using energy derived from sunlight and located in the Commonwealth and that utilizes goods or services sourced, in whole or in part, from one or more Virginia businesses, shall have the right to recover the costs of the facility, as accrued against income, through its rates, including projected construction work in progress, and any associated allowance for funds used during construction, planning, development and construction or acquisition costs, life-cycle costs, costs related to assessing the feasibility of potential sites for new underground facilities, and costs of infrastructure associated therewith, plus, as an incentive to undertake such projects, an enhanced rate of return on common equity calculated as specified below; however, in determining the amounts

recoverable under a rate adjustment clause for new underground facilities, the Commission shall not consider, or increase or reduce such amounts recoverable because of (a) the operation and maintenance costs attributable to either the overhead distribution facilities being replaced or the new underground facilities or (b) any other costs attributable to the overhead distribution facilities being replaced. Notwithstanding the preceding sentence, the costs described in clauses (a) and (b) thereof shall remain eligible for recovery from customers through the utility's base rates for distribution service. A utility filing a petition for approval to construct or purchase a facility consisting of at least one megawatt of generating capacity using energy derived from sunlight and located in the Commonwealth and that utilizes goods or services sourced, in whole or in part, from one or more Virginia businesses may propose a rate adjustment clause based on a market index in lieu of a cost of service model for such facility. A utility seeking approval to construct or purchase a generating facility that emits carbon dioxide shall demonstrate that it has already met the energy savings goals identified in § 56-596.2 and that the identified need cannot be met more affordably through the deployment or utilization of demand-side resources or energy storage resources and that it has considered and weighed alternative options, including third-party market alternatives, in its selection process.

The costs of the facility, other than return on projected construction work in progress and allowance for funds used during construction, shall not be recovered prior to the date a facility constructed by the utility and described in clause (i), (ii), (iii) or (v) begins commercial operation, the date the utility becomes the owner of a purchased generation facility consisting of at least one megawatt of generating capacity using energy derived from sunlight and located in the Commonwealth and that utilizes goods or services sourced, in whole or in part, from one or more Virginia businesses, or the date new underground facilities are classified by the utility as plant in service. In any application to construct a new generating facility, the utility shall include, and the Commission shall consider, the social cost of carbon, as determined by the Commission, as a benefit or cost, whichever is appropriate. The Commission shall ensure that the development of new, or expansion of existing, energy resources or facilities does not have a disproportionate adverse impact on historically economically disadvantaged communities. The Commission may adopt any rules it deems necessary to determine the social cost of carbon and shall use the best available science and technology, including the Technical Support Document: Technical Update of the Social Cost of Carbon for Regulatory Impact Analysis Under Executive Order 12866, published by the Interagency Working Group on Social Cost of Greenhouse Gases from the United States Government in August 2016, as guidance. The Commission shall include a system to adjust the costs established in this section with inflation.

Such enhanced rate of return on common equity shall be applied to allowance for funds used during construction and to construction work in progress during the construction phase of the facility and shall thereafter be applied to the entire facility during the first portion of the service life of the facility. The first portion of the service life shall be as specified in the table below; however, the Commission shall determine the duration of the first portion of the service life of any facility, within the range specified in the table below, which determination shall be consistent with the public interest and shall reflect the Commission's determinations regarding how critical the facility may be in meeting the energy needs of the citizens of the Commonwealth and the risks involved in the development of the facility. After the first portion of the service life of the facility is concluded, the utility's general rate of return shall be applied to such facility for the remainder of its service life. As used herein, the service life of the facility shall be deemed to begin on the date a facility constructed by the utility and described in clause (i), (ii), (iii) or (v) begins commercial operation, the date the utility becomes the owner of a purchased generation facility consisting of at least one megawatt of generating capacity using energy derived from sunlight and located in the Commonwealth and that utilizes goods or services sourced, in whole or in part, from one or more Virginia businesses, or the date new underground facilities or new electric distribution grid transformation projects are classified by the utility as plant in service, and such service life shall be deemed equal in years to the life of that facility as used to calculate the utility's depreciation expense. Such enhanced rate of return on common equity shall be calculated by adding the basis points specified in the table below to the utility's general rate of return, and such enhanced rate of return shall apply only to the facility that is the subject of such rate adjustment clause. Allowance for funds used during construction shall be calculated for any such facility utilizing the utility's actual capital structure and overall cost of capital, including an enhanced rate of return on common equity as determined pursuant to this subdivision, until such construction work in progress is included in rates. The construction of any facility described in clause (i) or (v) is in the public interest, and in determining whether to approve such facility, the Commission shall liberally construe the provisions of this title. The construction or purchase by a utility of one or more generation facilities with at least one megawatt of generating capacity, and with an aggregate rated capacity that does not exceed 16,100 megawatts, including rooftop solar installations with a capacity of not less than 50 kilowatts, and with an aggregate capacity of 100 megawatts, that use energy derived from sunlight or from onshore wind and are located

in the Commonwealth or off the Commonwealth's Atlantic shoreline, regardless of whether any of such facilities are located within or without the utility's service territory, is in the public interest, and in determining whether to approve such facility, the Commission shall liberally construe the provisions of this title. A utility may enter into short-term or long-term power purchase contracts for the power derived from sunlight generated by such generation facility prior to purchasing the generation facility. The replacement of any subset of a utility's existing overhead distribution tap lines that have, in the aggregate, an average of nine or more total unplanned outage events-per-mile over a preceding 10-year period with new underground facilities in order to improve electric service reliability is in the public interest. In determining whether to approve petitions for rate adjustment clauses for such new underground facilities that meet this criteria, and in determining the level of costs to be recovered thereunder, the Commission shall liberally construe the provisions of this title.

The conversion of any such facilities on or after September 1, 2016, is deemed to provide local and system-wide benefits and to be cost beneficial, and the costs associated with such new underground facilities are deemed to be reasonably and prudently incurred and, notwithstanding the provisions of subsection C or D, shall be approved for recovery by the Commission pursuant to this subdivision, provided that the total costs associated with the replacement of any subset of existing overhead distribution tap lines proposed by the utility with new underground facilities, exclusive of financing costs, shall not exceed an average cost per customer of \$20,000, with such customers, including those served directly by or downline of the tap lines proposed for conversion, and, further, such total costs shall not exceed an average cost per mile of tap lines converted, exclusive of financing costs, of \$750,000. A utility shall, without regard for whether it has petitioned for any rate adjustment clause pursuant to clause (vi), petition the Commission, not more than once annually, for approval of a plan for electric distribution grid transformation projects. Any plan for electric distribution grid transformation projects shall include both measures to facilitate integration of distributed energy resources and measures to enhance physical electric distribution grid reliability and security. In ruling upon such a petition, the Commission shall consider whether the utility's plan for such projects, and the projected costs associated therewith, are reasonable and prudent. Such petition shall be considered on a stand-alone basis without regard to the other costs, revenues, investments, or earnings of the utility; without regard to whether the costs associated with such projects will be recovered through a rate adjustment clause under this subdivision or through the utility's rates for generation and distribution services; and without regard to whether such costs will be the subject of a customer credit offset, as applicable, pursuant to subdivision 8 d. The Commission's final order regarding any such petition for approval of an electric distribution grid transformation plan shall be entered by the Commission not more than six months after the date of filing such petition. The Commission shall likewise enter its final order with respect to any petition by a utility for a certificate to construct and operate a generating facility or facilities utilizing energy derived from sunlight, pursuant to subsection D of § 56-580, within six months after the date of filing such petition. The basis points to be added to the utility's general rate of return to calculate the enhanced rate of return on common equity, and the first portion of that facility's service life to which such enhanced rate of return shall be applied, shall vary by type of facility, as specified in the following table:

Type of Generation Facility	Basis Points	First Portion of Service Life
Nuclear-powered	200	Between 12 and 25 years
Carbon capture compatible, clean-coal powered	200	Between 10 and 20 years
Renewable powered, other than landfill gas powered	200	Between 5 and 15 years
Coalbed methane gas powered	150	Between 5 and 15 years
Landfill gas powered	200	Between 5 and 15 years
Conventional coal or combined-cycle combustion turbine	100	Between 10 and 20 years

Only those facilities as to which a rate adjustment clause under this subdivision has been previously approved by the Commission, or as to which a petition for approval of such rate adjustment clause was filed with the Commission, on or before January 1, 2013, shall be entitled to the enhanced rate of return on common equity as specified in the above table during the construction phase of the facility and the approved first portion of its service life.

Thirty percent of all costs of such a facility utilizing nuclear power that the utility incurred between July 1, 2007, and December 31, 2013, and all of such costs incurred after December 31, 2013, may be deferred by the utility and recovered through a rate adjustment clause under this subdivision at such time as the Commission provides in an order approving such a rate adjustment clause. The remaining 70 percent of all costs of such a facility that the utility incurred between July 1, 2007, and December 31, 2013, shall not be deferred for recovery through a rate adjustment clause under this subdivision; however, such remaining 70 percent of all costs shall be recovered ratably through existing base rates as determined by the Commission in the test periods under review in the utility's next review filed after July 1, 2014. Thirty percent of all costs of a facility utilizing energy derived from offshore wind that the utility incurred between July 1, 2007, and December 31, 2013, and all of such costs incurred after December 31, 2013, may be deferred by the utility and recovered through a rate adjustment clause under

this subdivision at such time as the Commission provides in an order approving such a rate adjustment clause. The remaining 70 percent of all costs of such a facility that the utility incurred between July 1, 2007, and December 31, 2013, shall not be deferred for recovery through a rate adjustment clause under this subdivision; however, such remaining 70 percent of all costs shall be recovered ratably through existing base rates as determined by the Commission in the test periods under review in the utility's next review filed after July 1, 2014.

In connection with planning to meet forecasted demand for electric generation supply and assure the adequate and sufficient reliability of service, consistent with § 56-598, planning and development activities for a new utility-owned and utility-operated generating facility or facilities utilizing energy derived from sunlight or from onshore or offshore wind are in the public interest.

Notwithstanding any provision of Chapter 296 of the Acts of Assembly of 2018, construction, purchasing, or leasing activities for a new utility-owned and utility-operated generating facility or facilities utilizing energy derived from sunlight or from onshore wind with an aggregate capacity of 16,100 megawatts, including rooftop solar installations with a capacity of not less than 50 kilowatts, and with an aggregate capacity of 100 megawatts, together with a utility-owned and utility-operated generating facility or facilities utilizing energy derived from offshore wind with an aggregate capacity of not more than 3,000 megawatts, are in the public interest. Additionally, energy storage facilities with an aggregate capacity of 2,700 megawatts are in the public interest. To the extent that a utility elects to recover the costs of any such new generation or energy storage facility or facilities through its rates for generation and distribution services and does not petition and receive approval from the Commission for recovery of such costs through a rate adjustment clause described in clause (ii), the Commission shall, upon the request of the utility in a triennial review proceeding, provide for a customer credit reinvestment offset, as applicable, pursuant to subdivision 8 d with respect to all costs deemed reasonable and prudent by the Commission in a proceeding pursuant to subsection D of § 56-580 or in a triennial review proceeding.

Electric distribution grid transformation projects are in the public interest. To the extent that a utility elects to recover the costs of such electric distribution grid transformation projects through its rates for generation and distribution services, and does not petition and receive approval from the Commission for recovery of such costs through a rate adjustment clause described in clause (vi), the Commission shall, upon the request of the utility in a triennial review proceeding, provide for a customer credit reinvestment offset, as applicable, pursuant to subdivision 8 d with respect to all costs deemed reasonable and prudent by the Commission in a proceeding for approval of a plan for electric distribution grid transformation projects pursuant to subdivision 6 or in a triennial review proceeding.

Neither generation facilities described in clause (ii) that utilize simple-cycle combustion turbines nor new underground facilities shall receive an enhanced rate of return on common equity as described herein, but instead shall receive the utility's general rate of return during the construction phase of the facility and, thereafter, for the entire service life of the facility. No rate adjustment clause for new underground facilities shall allocate costs to, or provide for the recovery of costs from, customers that are served within the large power service rate class for a Phase I Utility and the large general service rate classes for a Phase II Utility. New underground facilities are hereby declared to be ordinary extensions or improvements in the usual course of business under the provisions of § 56-265.2.

As used in this subdivision, a generation facility is (1) "coalbed methane gas powered" if the facility is fired at least 50 percent by coalbed methane gas, as such term is defined in § 45.1-361.1, produced from wells located in the Commonwealth, and (2) "landfill gas powered" if the facility is fired by methane or other combustible gas produced by the anaerobic digestion or decomposition of biodegradable materials in a solid waste management facility licensed by the Waste Management Board. A landfill gas powered facility includes, in addition to the generation facility itself, the equipment used in collecting, drying, treating, and compressing the landfill gas and in transmitting the landfill gas from the solid waste management facility where it is collected to the generation facility where it is combusted.

For purposes of this subdivision, "general rate of return" means the fair combined rate of return on common equity as it is determined by the Commission for such utility pursuant to subdivision 2.

Notwithstanding any other provision of this subdivision, if the Commission finds during the triennial review conducted for a Phase II Utility in 2021 that such utility has not filed applications for all necessary federal and state regulatory approvals to construct one or more nuclear-powered or coal-fueled generation facilities that would add a total capacity of at least 1500 megawatts to the amount of the utility's generating resources as such resources existed on July 1, 2007, or that, if all such approvals have been received, that the utility has not made reasonable and good faith efforts to construct one or more such facilities that will provide such additional total capacity within a reasonable time after obtaining such approvals, then the Commission, if it finds it in the public interest, may reduce on a prospective basis any enhanced rate of return on common equity previously applied to any such facility

675 to no less than the general rate of return for such utility and may apply no less than the utility's general
676 rate of return to any such facility for which the utility seeks approval in the future under this
677 subdivision.

678 Notwithstanding any other provision of this subdivision, if a Phase II utility obtains approval from
679 the Commission of a rate adjustment clause pursuant to subdivision 6 associated with a test or
680 demonstration project involving a generation facility utilizing energy from offshore wind, and such
681 utility has not, as of July 1, 2023, commenced construction as defined for federal income tax purposes
682 of an offshore wind generation facility or facilities with a minimum aggregate capacity of 250
683 megawatts, then the Commission, if it finds it in the public interest, may direct that the costs associated
684 with any such rate adjustment clause involving said test or demonstration project shall thereafter no
685 longer be recovered through a rate adjustment clause pursuant to subdivision 6 and shall instead be
686 recovered through the utility's rates for generation and distribution services, with no change in such rates
687 for generation and distribution services as a result of the combination of such costs with the other costs,
688 revenues, and investments included in the utility's rates for generation and distribution services. Any
689 such costs shall remain combined with the utility's other costs, revenues, and investments included in its
690 rates for generation and distribution services until such costs are fully recovered.

691 7. Any petition filed pursuant to subdivision 4, 5, or 6 shall be considered by the Commission on a
692 stand-alone basis without regard to the other costs, revenues, investments, or earnings of the utility. Any
693 costs incurred by a utility prior to the filing of such petition, or during the consideration thereof by the
694 Commission, that are proposed for recovery in such petition and that are related to subdivision 5 a, or
695 that are related to facilities and projects described in clause (i) of subdivision 6, or that are related to
696 new underground facilities described in clause (iv) of subdivision 6, shall be deferred on the books and
697 records of the utility until the Commission's final order in the matter, or until the implementation of any
698 applicable approved rate adjustment clauses, whichever is later. Except as otherwise provided in
699 subdivision 6, any costs prudently incurred on or after July 1, 2007, by a utility prior to the filing of
700 such petition, or during the consideration thereof by the Commission, that are proposed for recovery in
701 such petition and that are related to facilities and projects described in clause (ii) or clause (iii) of
702 subdivision 6 that utilize nuclear power, or coal-fueled facilities and projects described in clause (ii) of
703 subdivision 6 if such coal-fueled facilities will be built by a Phase I Utility, shall be deferred on the
704 books and records of the utility until the Commission's final order in the matter, or until the
705 implementation of any applicable approved rate adjustment clauses, whichever is later. Any costs
706 prudently incurred after the expiration or termination of capped rates related to other matters described
707 in subdivision 4, 5, or 6 shall be deferred beginning only upon the expiration or termination of capped
708 rates, provided, however, that no provision of this act shall affect the rights of any parties with respect
709 to the rulings of the Federal Energy Regulatory Commission in PJM Interconnection LLC and Virginia
710 Electric and Power Company, 109 F.E.R.C. P 61,012 (2004). A utility shall establish a regulatory asset
711 for regulatory accounting and ratemaking purposes under which it shall defer its operation and
712 maintenance costs incurred in connection with (i) the refueling of any nuclear-powered generating plant
713 and (ii) other work at such plant normally performed during a refueling outage. The utility shall
714 amortize such deferred costs over the refueling cycle, but in no case more than 18 months, beginning
715 with the month in which such plant resumes operation after such refueling. The refueling cycle shall be
716 the applicable period of time between planned refueling outages for such plant. As of January 1, 2014,
717 such amortized costs are a component of base rates, recoverable in base rates only ratably over the
718 refueling cycle rather than when such outages occur, and are the only nuclear refueling costs recoverable
719 in base rates. This provision shall apply to any nuclear-powered generating plant refueling outage
720 commencing after December 31, 2013, and the Commission shall treat the deferred and amortized costs
721 of such regulatory asset as part of the utility's costs for the purpose of proceedings conducted (a) with
722 respect to triennial filings under subdivision 3 made on and after July 1, 2014, and (b) pursuant to
723 § 56-245 or the Commission's rules governing utility rate increase applications as provided in subsection
724 B. This provision shall not be deemed to change or reset base rates.

725 The Commission's final order regarding any petition filed pursuant to subdivision 4, 5, or 6 shall be
726 entered not more than three months, eight months, and nine months, respectively, after the date of filing
727 of such petition. If such petition is approved, the order shall direct that the applicable rate adjustment
728 clause be applied to customers' bills not more than 60 days after the date of the order, or upon the
729 expiration or termination of capped rates, whichever is later.

730 8. In any triennial review proceeding, for the purposes of reviewing earnings on the utility's rates for
731 generation and distribution services, the following utility generation and distribution costs not proposed
732 for recovery under any other subdivision of this subsection, as recorded per books by the utility for
733 financial reporting purposes and accrued against income, shall be attributed to the test periods under
734 review and deemed fully recovered in the period recorded: costs associated with asset impairments
735 related to early retirement determinations made by the utility for utility generation facilities fueled by
736 coal, natural gas, or oil or for automated meter reading electric distribution service meters; costs

associated with projects necessary to comply with state or federal environmental laws, regulations, or judicial or administrative orders relating to coal combustion by-product management that the utility does not petition to recover through a rate adjustment clause pursuant to subdivision 5 e; costs associated with severe weather events; and costs associated with natural disasters. Such costs shall be deemed to have been recovered from customers through rates for generation and distribution services in effect during the test periods under review unless such costs, individually or in the aggregate, together with the utility's other costs, revenues, and investments to be recovered through rates for generation and distribution services, result in the utility's earned return on its generation and distribution services for the combined test periods under review to fall more than 50 basis points below the fair combined rate of return authorized under subdivision 2 for such periods or, for any test period commencing after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, to fall more than 70 basis points below the fair combined rate of return authorized under subdivision 2 for such periods. In such cases, the Commission shall, in such triennial review proceeding, authorize deferred recovery of such costs and allow the utility to amortize and recover such deferred costs over future periods as determined by the Commission. The aggregate amount of such deferred costs shall not exceed an amount that would, together with the utility's other costs, revenues, and investments to be recovered through rates for generation and distribution services, cause the utility's earned return on its generation and distribution services to exceed the fair rate of return authorized under subdivision 2, less 50 basis points, for the combined test periods under review or, for any test period commencing after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, to exceed the fair rate of return authorized under subdivision 2 less 70 basis points. Nothing in this section shall limit the Commission's authority, pursuant to the provisions of Chapter 10 (§ 56-232 et seq.), including specifically § 56-235.2, following the review of combined test period earnings of the utility in a triennial review, for normalization of nonrecurring test period costs and annualized adjustments for future costs, in determining any appropriate increase or decrease in the utility's rates for generation and distribution services pursuant to subdivision 8 a or 8 c.

If the Commission determines as a result of such triennial review that:

a. Revenue reductions related to energy efficiency measures or programs approved and deployed since the utility's previous triennial review have caused the utility, as verified by the Commission, during the test period or periods under review, considered as a whole, to earn more than 50 basis points below a fair combined rate of return on its generation and distribution services or, for any test period commencing after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, more than 70 basis points below a fair combined rate of return on its generation and distribution services, as determined in subdivision 2, without regard to any return on common equity or other matters determined with respect to facilities described in subdivision 6, the Commission shall order increases to the utility's rates for generation and distribution services necessary to recover such revenue reductions. If the Commission finds, for reasons other than revenue reductions related to energy efficiency measures, that the utility has, during the test period or periods under review, considered as a whole, earned more than 50 basis points below a fair combined rate of return on its generation and distribution services or, for any test period commencing after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, more than 70 basis points below a fair combined rate of return on its generation and distribution services, as determined in subdivision 2, without regard to any return on common equity or other matters determined with respect to facilities described in subdivision 6, the Commission shall order increases to the utility's rates necessary to provide the opportunity to fully recover the costs of providing the utility's services and to earn not less than such fair combined rate of return, using the most recently ended 12-month test period as the basis for determining the amount of the rate increase necessary. However, in the first triennial review proceeding conducted after January 1, 2021, for a Phase II Utility, the Commission may not order a rate increase, and in all triennial reviews of a Phase I or Phase II utility, the Commission may not order such rate increase unless it finds that the resulting rates are necessary to provide the utility with the opportunity to fully recover its costs of providing its services and to earn not less than a fair combined rate of return on both its generation and distribution services, as determined in subdivision 2, without regard to any return on common equity or other matters determined with respect to facilities described in subdivision 6, using the most recently ended 12-month test period as the basis for determining the permissibility of any rate increase under the standards of this sentence, and the amount thereof; and provided that, solely in connection with making its determination concerning the necessity for such a rate increase or the amount thereof, the Commission shall, in any triennial review proceeding conducted prior to July 1, 2028, exclude from this most recently ended 12-month test period any remaining investment levels associated with a prior customer credit reinvestment offset pursuant to subdivision d.

b. The utility has, during the test period or test periods under review, considered as a whole, earned more than 50 basis points above a fair combined rate of return on its generation and distribution

798 services or, for any test period commencing after December 31, 2012, for a Phase II Utility and after
799 December 31, 2013, for a Phase I Utility, more than 70 basis points above a fair combined rate of
800 return on its generation and distribution services, as determined in subdivision 2, without regard to any
801 return on common equity or other matters determined with respect to facilities described in subdivision
802 6, the Commission shall, subject to the provisions of subdivisions 8 d and 9, direct that 60 percent of
803 the amount of such earnings that were more than 50 basis points, or, for any test period commencing
804 after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, that
805 70 percent of the amount of such earnings that were more than 70 basis points, above such fair
806 combined rate of return for the test period or periods under review, considered as a whole, shall be
807 credited to customers' bills. Any such credits shall be amortized over a period of six to 12 months, as
808 determined at the discretion of the Commission, following the effective date of the Commission's order,
809 and shall be allocated among customer classes such that the relationship between the specific customer
810 class rates of return to the overall target rate of return will have the same relationship as the last
811 approved allocation of revenues used to design base rates; or

812 c. In any triennial review proceeding conducted after January 1, 2020, for a Phase I Utility or after
813 January 1, 2021, for a Phase II Utility in which the utility has, during the test period or test periods
814 under review, considered as a whole, earned more than 50 basis points above a fair combined rate of
815 return on its generation and distribution services or, for any test period commencing after December 31,
816 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, more than 70 basis
817 points above a fair combined rate of return on its generation and distribution services, as determined in
818 subdivision 2, without regard to any return on common equity or other matter determined with respect
819 to facilities described in subdivision 6, and the combined aggregate level of capital investment that the
820 Commission has approved other than those capital investments that the Commission has approved for
821 recovery pursuant to a rate adjustment clause pursuant to subdivision 6 made by the utility during the
822 test periods under review in that triennial review proceeding in new utility-owned generation facilities
823 utilizing energy derived from sunlight, or from wind, and in electric distribution grid transformation
824 projects, as determined pursuant to subdivision 8 d, does not equal or exceed 100 percent of the
825 earnings that are more than 70 basis points above the utility's fair combined rate of return on its
826 generation and distribution services for the combined test periods under review in that triennial review
827 proceeding, the Commission shall, subject to the provisions of subdivision 9 and in addition to the
828 actions authorized in subdivision b, also order reductions to the utility's rates it finds appropriate.
829 However, in the first triennial review proceeding conducted after January 1, 2021, for a Phase II Utility,
830 any reduction to the utility's rates ordered by the Commission pursuant to this subdivision shall not
831 exceed \$50 million in annual revenues, with any reduction allocated to the utility's rates for generation
832 services, and in each triennial review of a Phase I or Phase II Utility, the Commission may not order
833 such rate reduction unless it finds that the resulting rates will provide the utility with the opportunity to
834 fully recover its costs of providing its services and to earn not less than a fair combined rate of return
835 on its generation and distribution services, as determined in subdivision 2, without regard to any return
836 on common equity or other matters determined with respect to facilities described in subdivision 6,
837 using the most recently ended 12-month test period as the basis for determining the permissibility of any
838 rate reduction under the standards of this sentence, and the amount thereof; and

839 d. (Expires July 1, 2028) In any triennial review proceeding conducted after December 31, 2017,
840 upon the request of the utility, the Commission shall determine, prior to directing that 70 percent of
841 earnings that are more than 70 basis points above the utility's fair combined rate of return on its
842 generation and distribution services for the test period or periods under review be credited to customer
843 bills pursuant to subdivision 8 b, the aggregate level of prior capital investment that the Commission has
844 approved other than those capital investments that the Commission has approved for recovery pursuant
845 to a rate adjustment clause pursuant to subdivision 6 made by the utility during the test period or
846 periods under review in both (i) new utility-owned generation facilities utilizing energy derived from
847 sunlight, or from onshore or offshore wind, and (ii) electric distribution grid transformation projects, as
848 determined by the utility's plant in service and construction work in progress balances related to such
849 investments as recorded per books by the utility for financial reporting purposes as of the end of the
850 most recent test period under review. Any such combined capital investment amounts shall offset any
851 customer bill credit amounts, on a dollar for dollar basis, up to the aggregate level of invested or
852 committed capital under clauses (i) and (ii). The aggregate level of qualifying invested or committed
853 capital under clauses (i) and (ii) is referred to in this subdivision as the customer credit reinvestment
854 offset, which offsets the customer bill credit amount that the utility has invested or will invest in new
855 solar or wind generation facilities or electric distribution grid transformation projects for the benefit of
856 customers, in amounts up to 100 percent of earnings that are more than 70 basis points above the
857 utility's fair rate of return on its generation and distribution services, and thereby reduce or eliminate
858 otherwise incremental rate adjustment clause charges and increases to customer bills, which is deemed to
859 be in the public interest. If 100 percent of the amount of earnings that are more than 70 basis points

above the utility's fair combined rate of return on its generation and distribution services, as determined in subdivision 2, exceeds the aggregate level of invested capital in new utility-owned generation facilities utilizing energy derived from sunlight, or from wind, and electric distribution grid transformation projects, as provided in clauses (i) and (ii), during the test period or periods under review, then 70 percent of the amount of such excess shall be credited to customer bills as provided in subdivision 8 b in connection with the triennial review proceeding. The portion of any costs associated with new utility-owned generation facilities utilizing energy derived from sunlight, or from wind, or electric distribution grid transformation projects that is the subject of any customer credit reinvestment offset pursuant to this subdivision shall not thereafter be recovered through the utility's rates for generation and distribution services over the service life of such facilities and shall not thereafter be included in the utility's costs, revenues, and investments in future triennial review proceedings conducted pursuant to subdivision 2 and shall not be the subject of a rate adjustment clause petition pursuant to subdivision 6. The portion of any costs associated with new utility-owned generation facilities utilizing energy derived from sunlight, or from wind, or electric distribution grid transformation projects that is not the subject of any customer credit reinvestment offset pursuant to this subdivision may be recovered through the utility's rates for generation and distribution services over the service life of such facilities and shall be included in the utility's costs, revenues, and investments in future triennial review proceedings conducted pursuant to subdivision 2 until such costs are fully recovered, and if such costs are recovered through the utility's rates for generation and distribution services, they shall not be the subject of a rate adjustment clause petition pursuant to subdivision 6. Only the portion of such costs of new utility-owned generation facilities utilizing energy derived from sunlight, or from wind, or electric distribution grid transformation projects that has not been included in any customer credit reinvestment offset pursuant to this subdivision, and not otherwise recovered through the utility's rates for generation and distribution services, may be the subject of a rate adjustment clause petition by the utility pursuant to subdivision 6.

The Commission's final order regarding such triennial review shall be entered not more than eight months after the date of filing, and any revisions in rates or credits so ordered shall take effect not more than 60 days after the date of the order. The fair combined rate of return on common equity determined pursuant to subdivision 2 in such triennial review shall apply, for purposes of reviewing the utility's earnings on its rates for generation and distribution services, to the entire three successive 12-month test periods ending December 31 immediately preceding the year of the utility's subsequent triennial review filing under subdivision 3 and shall apply to applicable rate adjustment clauses under subdivisions 5 and 6 prospectively from the date the Commission's final order in the triennial review proceeding, utilizing rate adjustment clause true-up protocols as the Commission in its discretion may determine.

9. If, as a result of a triennial review required under this subsection and conducted with respect to any test period or periods under review ending later than December 31, 2010 (or, if the Commission has elected to stagger its biennial reviews of utilities as provided in subdivision 1, under review ending later than December 31, 2010, for a Phase I Utility, or December 31, 2011, for a Phase II Utility), the Commission finds, with respect to such test period or periods considered as a whole, that (i) any utility has, during the test period or periods under review, considered as a whole, earned more than 50 basis points above a fair combined rate of return on its generation and distribution services or, for any test period commencing after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, more than 70 basis points above a fair combined rate of return on its generation and distribution services, as determined in subdivision 2, without regard to any return on common equity or other matters determined with respect to facilities described in subdivision 6, and (ii) the total aggregate regulated rates of such utility at the end of the most recently ended 12-month test period exceeded the annual increases in the United States Average Consumer Price Index for all items, all urban consumers (CPI-U), as published by the Bureau of Labor Statistics of the United States Department of Labor, compounded annually, when compared to the total aggregate regulated rates of such utility as determined pursuant to the review conducted for the base period, the Commission shall, unless it finds that such action is not in the public interest or that the provisions of subdivisions 8 b and c are more consistent with the public interest, direct that any or all earnings for such test period or periods under review, considered as a whole that were more than 50 basis points, or, for any test period commencing after December 31, 2012, for a Phase II Utility and after December 31, 2013, for a Phase I Utility, more than 70 basis points, above such fair combined rate of return shall be credited to customers' bills, in lieu of the provisions of subdivisions 8 b and c, provided that no credits shall be provided pursuant to this subdivision in connection with any triennial review unless such bill credits would be payable pursuant to the provisions of subdivision 8 d, and any credits under this subdivision shall be calculated net of any customer credit reinvestment offset amounts under subdivision 8 d. Any such credits shall be amortized and allocated among customer classes in the manner provided by subdivision 8 b. For purposes of this subdivision:

921 "Base period" means (i) the test period ending December 31, 2010 (or, if the Commission has elected
922 to stagger its biennial reviews of utilities as provided in subdivision 1, the test period ending December
923 31, 2010, for a Phase I Utility, or December 31, 2011, for a Phase II Utility), or (ii) the most recent test
924 period with respect to which credits have been applied to customers' bills under the provisions of this
925 subdivision, whichever is later.

926 "Total aggregate regulated rates" shall include: (i) fuel tariffs approved pursuant to § 56-249.6, except
927 for any increases in fuel tariffs deferred by the Commission for recovery in periods after December 31,
928 2010, pursuant to the provisions of clause (ii) of subsection C of § 56-249.6; (ii) rate adjustment clauses
929 implemented pursuant to subdivision 4 or 5; (iii) revisions to the utility's rates pursuant to subdivision 8
930 a; (iv) revisions to the utility's rates pursuant to the Commission's rules governing utility rate increase
931 applications, as permitted by subsection B, occurring after July 1, 2009; and (v) base rates in effect as
932 of July 1, 2009.

933 10. For purposes of this section, the Commission shall regulate the rates, terms and conditions of any
934 utility subject to this section on a stand-alone basis utilizing the actual end-of-test period capital
935 structure and cost of capital of such utility, excluding any debt associated with securitized bonds that are
936 the obligation of non-Virginia jurisdictional customers, unless the Commission finds that the debt to
937 equity ratio of such capital structure is unreasonable for such utility, in which case the Commission may
938 utilize a debt to equity ratio that it finds to be reasonable for such utility in determining any rate
939 adjustment pursuant to subdivisions 8 a and c, and without regard to the cost of capital, capital structure,
940 revenues, expenses or investments of any other entity with which such utility may be affiliated. In
941 particular, and without limitation, the Commission shall determine the federal and state income tax costs
942 for any such utility that is part of a publicly traded, consolidated group as follows: (i) such utility's
943 apportioned state income tax costs shall be calculated according to the applicable statutory rate, as if the
944 utility had not filed a consolidated return with its affiliates, and (ii) such utility's federal income tax
945 costs shall be calculated according to the applicable federal income tax rate and shall exclude any
946 consolidated tax liability or benefit adjustments originating from any taxable income or loss of its
947 affiliates.

948 B. Nothing in this section shall preclude an investor-owned incumbent electric utility from applying
949 for an increase in rates pursuant to § 56-245 or the Commission's rules governing utility rate increase
950 applications; however, in any such filing, a fair rate of return on common equity shall be determined
951 pursuant to subdivision A 2. Nothing in this section shall preclude such utility's recovery of fuel and
952 purchased power costs as provided in § 56-249.6.

953 C. Except as otherwise provided in this section, the Commission shall exercise authority over the
954 rates, terms and conditions of investor-owned incumbent electric utilities for the provision of generation,
955 transmission and distribution services to retail customers in the Commonwealth pursuant to the
956 provisions of Chapter 10 (§ 56-232 et seq.), including specifically § 56-235.2.

957 D. The Commission may determine, during any proceeding authorized or required by this section, the
958 reasonableness or prudence of any cost incurred or projected to be incurred, by a utility in connection
959 with the subject of the proceeding. A determination of the Commission regarding the reasonableness or
960 prudence of any such cost shall be consistent with the Commission's authority to determine the
961 reasonableness or prudence of costs in proceedings pursuant to the provisions of Chapter 10 (§ 56-232 et
962 seq.). In determining the reasonableness or prudence of a utility providing energy and capacity to its
963 customers from renewable energy resources, the Commission shall consider the extent to which such
964 renewable energy resources, whether utility-owned or by contract, further the objectives of the
965 Commonwealth *Clean Energy Policy* set forth in ~~§§ 67-101 and 67-102~~ § 67-101.1, and shall also
966 consider whether the costs of such resources is likely to result in unreasonable increases in rates paid by
967 customers.

968 E. Notwithstanding any other provision of law, the Commission shall determine the amortization
969 period for recovery of any appropriate costs due to the early retirement of any electric generation
970 facilities owned or operated by any Phase I Utility or Phase II Utility. In making such determination, the
971 Commission shall (i) perform an independent analysis of the remaining undepreciated capital costs; (ii)
972 establish a recovery period that best serves ratepayers; and (iii) allow for the recovery of any carrying
973 costs that the Commission deems appropriate.

974 F. The Commission shall promulgate such rules and regulations as may be necessary to implement
975 the provisions of this section.

976 **§ 56-598. Contents of integrated resource plans.**

977 An IRP should:

978 1. Integrate, over the planning period, the electric utility's forecast of demand for electric generation
979 supply with recommended plans to meet that forecasted demand and assure adequate and sufficient
980 reliability of service, including:

981 a. Generating electricity from generation facilities that it currently operates or intends to construct or
982 purchase;

b. Purchasing electricity from affiliates and third parties;
 c. Reducing load growth and peak demand growth through cost-effective demand reduction programs;
 and

d. Utilizing energy storage facilities to help meet forecasted demand and assure adequate and sufficient reliability of service;

2. Identify a portfolio of electric generation supply resources, including purchased and self-generated electric power, that:

a. Consistent with § 56-585.1, is most likely to provide the electric generation supply needed to meet the forecasted demand, net of any reductions from demand side programs, so that the utility will continue to provide reliable service at reasonable prices over the long term; and

b. Will consider low cost energy/capacity available from short-term or spot market transactions, consistent with a reasonable assessment of risk with respect to both price and generation supply availability over the term of the plan;

3. Reflect a diversity of electric generation supply and cost-effective demand reduction contracts and services so as to reduce the risks associated with an over-reliance on any particular fuel or type of generation demand and supply resources and be consistent with the Commonwealth's energy policies as set forth in § ~~67-102~~ 67-101.1; and

4. Include such additional information as the Commission requests pertaining to how the electric utility intends to meet its obligation to provide electric generation service for use by its retail customers over the planning period.

§ 56-601. Natural gas conservation and ratemaking efficiency.

A. Consistent with the objectives pertaining to *the* energy issues set forth in ~~§ 67-101~~ and the policy elements stated in § ~~67-102~~ 67-101.1, it is in the public interest to authorize and encourage the adoption of natural gas conservation and ratemaking efficiency plans that promote the wise use of natural gas and natural gas infrastructure through the development of alternative rate designs and other mechanisms that more closely align the interests of natural gas utilities, their customers, and the Commonwealth generally, and improve the efficiency of ratemaking to more closely reflect the dynamic nature of the natural gas market, the economy, and public policy regarding conservation and energy efficiency. Such alternative rate designs and other mechanisms should, where feasible:

1. Provide utilities with better tools to work with customers to decrease the average customer's annual average weather-normalized consumption of natural gas;

2. Provide reasonable assurance of a utility's ability to recover costs of serving the public, including its cost-effective investments in conservation and energy efficiency as well as infrastructure needed to provide or maintain reliable service to the public;

3. Reward utilities for meeting or exceeding conservation and energy efficiency goals that may be established pursuant to the Virginia Energy Plan (§ 67-100 et seq.);

4. Provide customers with long-term, meaningful opportunities to more efficiently consume natural gas and mitigate their expenditures for the natural gas commodity, while ensuring that the rate design methodology used to set a utility's revenue recovery is not inconsistent with such conservation and energy efficiency goals;

5. Recognize the economic and environmental benefits of efficient use of natural gas; and

6. Preserve or enhance the utility bill savings that customers receive when they reduce their natural gas use.

B. Natural gas utilities are authorized pursuant to this chapter to file natural gas conservation and ratemaking efficiency plans that implement alternative natural gas utility rate designs and other mechanisms, in addition to or in conjunction with the cost of service methodology set forth in § 56-235.2 and performance-based regulation plans authorized by § 56-235.6, that:

1. Replace existing utility rate designs or other mechanisms that promote inefficient use of natural gas with rate designs or other mechanisms that ensure a utility's recovery of its authorized revenues is independent of the amount of customers' natural gas consumption;

2. Provide incentives for natural gas utilities to promote conservation and energy efficiency by granting recovery of the costs associated with cost-effective conservation and energy efficiency programs; and

3. Reward utilities that meet or exceed conservation and energy efficiency goals on a weather-normalized, annualized average customer basis through the implementation of cost-effective conservation and energy efficiency programs.

C. This chapter shall be construed liberally to accomplish these purposes.

§ 62.1-199. Definitions.

As used in this chapter, unless a different meaning clearly appears from the context:

"Authority" means the Virginia Resources Authority created by this chapter.

"Board of Directors" means the Board of Directors of the Authority.

1044 "Bonds" means any bonds, notes, debentures, interim certificates, bond, grant or revenue anticipation
1045 notes, lease and sale-leaseback transactions or any other obligations of the Authority for the payment of
1046 money.

1047 "Capital Reserve Fund" means the reserve fund created and established by the Authority in
1048 accordance with § 62.1-215.

1049 "Cost," as applied to any project financed under the provisions of this chapter, means the total of all
1050 costs incurred by the local government as reasonable and necessary for carrying out all works and
1051 undertakings necessary or incident to the accomplishment of any project. It includes, without limitation,
1052 all necessary developmental, planning and feasibility studies, surveys, plans and specifications,
1053 architectural, engineering, financial, legal or other special services, the cost of acquisition of land and
1054 any buildings and improvements thereon, including the discharge of any obligations of the sellers of
1055 such land, buildings or improvements, real estate appraisals, site preparation and development, including
1056 demolition or removal of existing structures, construction and reconstruction, labor, materials, machinery
1057 and equipment, the reasonable costs of financing incurred by the local government in the course of the
1058 development of the project, including the cost of any credit enhancements, carrying charges incurred
1059 before placing the project in service, interest on local obligations issued to finance the project to a date
1060 subsequent to the estimated date the project is to be placed in service, necessary expenses incurred in
1061 connection with placing the project in service, the funding of accounts and reserves which the Authority
1062 may require and the cost of other items which the Authority determines to be reasonable and necessary.
1063 It also includes the amount of any contribution, grant or aid which a local government may make or
1064 give to any adjoining state, the District of Columbia or any department, agency or instrumentality
1065 thereof to pay the costs incident and necessary to the accomplishment of any project, including, without
1066 limitation, the items set forth above. The term also includes interest and principal payments pursuant to
1067 any installment purchase agreement.

1068 "Credit enhancements" means surety bonds, insurance policies, letters of credit, guarantees and other
1069 forms of collateral or security.

1070 "Defective drywall" means the same as that term is defined in § 36-156.1.

1071 "Federal facility" means any building or infrastructure used or to be used by the federal government,
1072 including any building or infrastructure located on lands owned by the federal government.

1073 "Federal government" means the United States of America, or any department, agency or
1074 instrumentality, corporate or otherwise, of the United States of America.

1075 "Former federal facility" means any federal facility formerly used by the federal government or in
1076 transition from use by the federal government to a facility all or part of which is to serve any local
1077 government.

1078 "Local government" means any county, city, town, municipal corporation, authority, district,
1079 commission or political subdivision created by the General Assembly or pursuant to the Constitution and
1080 laws of the Commonwealth or any combination of any two or more of the foregoing.

1081 "Local obligations" means any bonds, notes, debentures, interim certificates, bond, grant or revenue
1082 anticipation notes, leases, credit enhancements, or any other obligations of a local government for the
1083 payment of money.

1084 "Minimum capital reserve fund requirement" means, as of any particular date of computation, the
1085 amount of money designated as the minimum capital reserve fund requirement which may be established
1086 in the resolution of the Authority authorizing the issuance of, or the trust indenture securing, any
1087 outstanding issue of bonds or credit enhancement.

1088 "Project" means (i) any water supply or wastewater treatment facility, including a facility for
1089 receiving and stabilizing septage or a soil drainage management facility, and any solid waste treatment,
1090 disposal, or management facility, recycling facility, federal facility or former federal facility, or resource
1091 recovery facility located or to be located in the Commonwealth, the District of Columbia, or any
1092 adjoining state, all or part of which facility serves or is to serve any local government, and (ii) any
1093 federal facility located or to be located in the Commonwealth, provided that both the Board of Directors
1094 of the Authority and the governing body of the local government receiving the benefit of the loan, grant,
1095 or credit enhancement from the Authority make a determination or finding to be embodied in a
1096 resolution or ordinance that the undertaking and financing of such facility is necessary for the location
1097 or retention of such facility and the related use by the federal government in the Commonwealth. The
1098 term includes, without limitation, water supply and intake facilities; water treatment and filtration
1099 facilities; water storage facilities; water distribution facilities; sewage and wastewater (including surface
1100 and ground water) collection, treatment, and disposal facilities; drainage facilities and projects; solid
1101 waste treatment, disposal, or management facilities; recycling facilities; resource recovery facilities;
1102 related office, administrative, storage, maintenance, and laboratory facilities; and interests in land related
1103 thereto. The term also includes energy conservation measures and facility technology infrastructure as
1104 defined in § 11-34.2 and other energy objectives as defined in § ~~67-101~~ 67-101.1. The term also means
1105 any heavy rail transportation facilities operated by a transportation district created under the

Transportation District Act of 1964 (§ 33.2-1900 et seq.) that operates heavy rail freight service, including rolling stock, barge loading facilities, and any related marine or rail equipment. The term also means, without limitation, the design and construction of roads, the construction of local government buildings, including administrative and operations systems and other local government equipment and infrastructure, public parking garages and other public transportation facilities, and facilities for public transportation by commuter rail. In addition, the term means any project as defined in § 5.1-30.1 and any professional sports facility, including a major league baseball stadium as defined in § 15.2-5800, provided that the specific professional sports facility projects have been designated by the General Assembly as eligible for assistance from the Authority. The term also means any equipment, facilities, and technology infrastructure designed to provide broadband service. The term also means facilities supporting, related to, or otherwise used for public safety, including but not limited to law-enforcement training facilities and emergency response, fire, rescue, and police stations. The term also means the remediation, redevelopment, and rehabilitation of property contaminated by the release of hazardous substances, hazardous wastes, solid wastes, or petroleum, where such remediation has not clearly been mandated by the United States Environmental Protection Agency, the Department of Environmental Quality, or a court pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. § 9601 et seq.), the Resource Conservation and Recovery Act (42 U.S.C. § 6901 et seq.), the Virginia Waste Management Act (§ 10.1-1400 et seq.), the State Water Control Law (§ 62.1-44.2 et seq.), or other applicable statutory or common law or where jurisdiction of those statutes has been waived. The term also means any program or project for land conservation, parks, park facilities, land for recreational purposes, or land preservation, including but not limited to any program or project involving the acquisition of rights or interests in land for the conservation or preservation of such land. The term also means any dredging program or dredging project undertaken to benefit the economic and community development goals of a local government but does not include any dredging program or dredging project undertaken for or by the Virginia Port Authority. The term also means any oyster restoration project, including planting and replanting with seed oysters, oyster shells, or other material that will catch, support, and grow oysters. The term also means any program or project to perform site acquisition or site development work for the benefit of economic and community development projects for any local government. The term also means any undertaking by a local government to build or facilitate the building of a recovered gas energy facility; and any local government renewable energy project, including solar, wind, biomass, waste-to-energy, and geothermal projects. The term also means any undertaking by a local government to facilitate the remediation of residential properties contaminated by the presence of defective drywall.

"Recovered gas energy facility" means a facility, located at or adjacent to (i) a solid waste management facility permitted by the Department of Environmental Quality or (ii) a sewerage system or sewage treatment work described in § 62.1-44.18 that is constructed and operated for the purpose of treating sewage and wastewater for discharge to state waters, which facility or work is constructed and operated for the purpose of (a) reclaiming or collecting methane or other combustible gas from the biodegradation or decomposition of solid waste, as defined in § 10.1-1400, that has been deposited in the solid waste management facility or sewerage system or sewage treatment work and (b) either using such gas to generate electric energy or upgrading the gas to pipeline quality and transmitting it off premises for sale or delivery to commercial or industrial purchasers or to a public utility or locality.

§ 67-101.1. Commonwealth Clean Energy Policy.

A. The Commonwealth recognizes that effectively addressing climate change and enhancing resilience will advance the health, welfare, and safety of the residents of the Commonwealth. The Commonwealth further recognizes that addressing climate change requires reducing greenhouse gas emissions across the Commonwealth's economy sufficient to reach net-zero emission by 2045 in all sectors, including the electric power, transportation, industrial, agricultural, building, and infrastructure sectors. To achieve these objectives, it shall be the policy of the Commonwealth to:

1. Develop energy resources necessary to produce 30 percent of Virginia's electricity from renewable energy sources by 2030 and 100 percent of Virginia's electricity from carbon-free sources by 2040;

2. Enable widespread integration of distributed energy resources, including energy storage and rooftop solar, into the grid to achieve decarbonization and to enhance resilience;

3. Support the distributed generation of renewable electricity by:

a. Encouraging private sector investments in distributed renewable energy;

b. Increasing the security of the electricity grid by supporting distributed renewable energy projects and energy storage with the potential to supply electric energy to critical facilities during a widespread power outage; and

c. Enhancing the ability of private property owners to generate their own renewable energy for their own personal use from renewable energy sources on their property;

4. Lead by example in state government by supporting the carbon-free energy resources required to

1167 fully decarbonize the electric power supply of the Commonwealth, including deploying 30 percent
1168 renewables by 2030, realizing 100 percent carbon-free electric power by 2040, and achieving net zero
1169 emissions by 2045;

1170 5. Maximize energy efficiency programs as defined in § 56-576, to the extent determined to be in the
1171 public interest, that are the lowest-cost energy option to reduce greenhouse gas emissions, in order to
1172 produce electricity cost savings and to create jobs and economic opportunity from the energy efficiency
1173 sector;

1174 6. Support net-zero emission targets by promoting zero-emission vehicles and infrastructure,
1175 decreasing the carbon intensity of the transportation sector, encouraging alternative transportation
1176 options, and increasing the efficiency of motor vehicles operating on Virginia's roads;

1177 7. Support electric distribution grid transformation projects as defined in § 56-576;

1178 8. Promote building and construction practices that reduce emissions associated with built
1179 environment, including energy efficiency targets, new building standards, and transit-oriented and other
1180 sustainable development practices; and

1181 9. Ensure that energy development projects avoid, minimize, and, if necessary, mitigate damage to
1182 the Commonwealth's natural and cultural resources.

1183 B. The Commonwealth recognizes the need to promote environmental justice and ensure that it is
1184 carried out throughout the Commonwealth, as provided in § 2.2-235, and the need to address and
1185 prevent energy inequities in historically economically disadvantaged communities, as defined in
1186 § 56-576. To achieve these objectives, it shall be the policy of the Commonwealth to:

1187 1. Recognize the disproportionate and inequitable impacts of climate change on historically
1188 economically disadvantaged communities and prioritize solutions and investment in these communities to
1189 maximize the benefits of clean energy and minimize the burdens of climate change;

1190 2. Ensure the fair treatment and meaningful involvement, as those terms are defined in § 2.2-234, of
1191 all people regardless of race, color, national origin, faith, disability, or income with respect to the
1192 administration of energy laws, regulations, and policies; and

1193 3. Increase access to clean energy and the benefits from clean energy to historically economically
1194 disadvantaged communities.

1195 C. As Virginia transforms its energy economy, the Commonwealth must continue to prioritize
1196 economic competitiveness and workforce development in an equitable manner. To achieve this objective, it
1197 shall be the policy of the Commonwealth to:

1198 1. Equitably incorporate requirements for technical, policy, and economic analyses and assessments
1199 that recognize the unique attributes of different energy resources and delivery systems to identify
1200 pathways to net-zero carbon that maximize Virginia's energy reliability and resilience, economic
1201 development, and jobs;

1202 2. Require that pathways to net-zero greenhouse gas emissions be determined on the basis of
1203 technical, policy, and economic analysis to maximize their effectiveness, optimize Virginia's economic
1204 development, support industrial employment, and create quality jobs while minimizing adverse impacts
1205 on public health, affected communities, and the environment;

1206 3. Ensure an adequate energy supply and a Virginia-based energy production capacity, while also
1207 optimizing intrastate and interstate use of energy supply and delivery to maximize energy availability,
1208 reliability, and price opportunities to the benefit of all user classes and the Commonwealth's economy;

1209 4. Increase wind energy development and grow the Commonwealth's role as a wind industry hub for
1210 offshore wind generation projects in state and federal waters off the United States coast;

1211 5. Ensure the availability of reliable energy at costs that are reasonable and in quantities that will
1212 support the Commonwealth's economy;

1213 6. Ensure reliable energy availability in the event of a disruption occurring to a portion of the
1214 Commonwealth's energy matrix and to address the needs of businesses during the transition to clean
1215 energy;

1216 7. Minimize the Commonwealth's long-term exposure to volatility and increases in world energy
1217 prices by expanding the use of innovative clean energy technology within the Commonwealth;

1218 8. Create training opportunities and green career pathways for local workers and workers in
1219 historically economically disadvantaged communities in onshore and offshore wind, solar energy,
1220 electrification, energy efficiency, clean transportation, and other emerging clean energy industries;

1221 9. Support the repurposing and development of clean energy resources on previously developed
1222 project sites as defined in § 56-576;

1223 10. Ensure that decision making is transparent and includes opportunities for full participation by
1224 the public;

1225 11. Explore approaches to maximizing and leveraging the capacity of lands and waters in the
1226 Commonwealth to store energy; and

1227 12. Increase the Commonwealth's reliance on and production of sustainably produced biofuels made
1228 from traditional agricultural crops and other feedstocks, such as winter cover crops, warm season

grasses, fast-growing trees, algae, or other suitable feedstocks grown in the Commonwealth, that will (i) create jobs and income, (ii) produce clean-burning fuels that will help to improve air quality, and (iii) provide the new markets for Virginia's silvicultural and agricultural products needed to preserve farm employment, conserve farmland and forestland, and increase implementation of silvicultural and agricultural best management practices to protect water quality.

D. The elements of the policy set forth in subsections A, B, and C shall be referred to collectively in this title as the Commonwealth Clean Energy Policy.

E. All agencies and political subdivisions of the Commonwealth, in taking discretionary action with regard to energy issues, shall recognize the elements of the Commonwealth Clean Energy Policy and, where appropriate, shall act in a manner consistent therewith.

F. The Commonwealth Clean Energy Policy is intended to provide guidance to the agencies and political subdivisions of the Commonwealth in taking discretionary action with regard to energy issues and shall not be construed to amend, repeal, or override any contrary provision of applicable law. Nothing in this section shall preclude reliable access to electricity and natural gas during the transition to renewable energy. The failure or refusal of any person to recognize the elements of the Commonwealth Clean Energy Policy, to act in a manner consistent with the Commonwealth Clean Energy Policy, or to take any other action whatsoever shall not create any right, action, or cause of action or provide standing for any person to challenge the action of the Commonwealth or any of its agencies or political subdivisions.

§ 67-103. Role of local governments in achieving objectives of the Commonwealth Clean Energy Policy.

In the development of any local ordinance addressing the siting of renewable energy facilities that generate electricity from wind or solar resources, the ordinance shall:

1. Be consistent with the provisions of the Commonwealth *Clean Energy Policy* pursuant to subsection E of § ~~67-102~~ 67-101.1;

2. Provide reasonable criteria to be addressed in the siting of any renewable energy facility that generates electricity from wind and solar resources. The criteria shall provide for the protection of the locality in a manner consistent with the goals of the Commonwealth to promote the generation of energy from wind and solar resources; and

3. Include provisions establishing reasonable requirements upon the siting of any such renewable energy facility, including provisions limiting noise, requiring buffer areas and setbacks, and addressing generation facility decommissioning.

Any measures required by the ordinance shall be consistent with the locality's existing ordinances.

§ 67-104. Nuclear energy; considered a clean energy source.

For the purposes of the Commonwealth *Clean Energy Policy* as set out in § ~~67-102~~ 67-101.1, in any clean energy initiative or carbon-free energy initiative undertaken, overseen, regulated, or permitted by the Department, nuclear energy shall be considered to be a clean energy source.

§ 67-201. Development of the Virginia Energy Plan.

A. The Division, in consultation with the State Corporation Commission, the Department of Environmental Quality, the Clean Energy Advisory Board, solar, wind, and energy efficiency sectors, and a stakeholder group that shall include representatives of consumer, environmental, manufacturing, forestry, and agricultural organizations and natural gas and electric utilities, shall prepare a comprehensive Virginia Energy Plan (the Plan) that identifies actions over a 10-year period consistent with the goal of the Commonwealth *Clean Energy Policy* set forth in § ~~67-102~~ 67-101.1 to achieve, no later than 2045, a net-zero carbon energy economy for all sectors, including electricity, transportation, building, agricultural, and industrial sectors. The Plan shall propose actions, consistent with the objectives enumerated in § ~~67-101~~ 67-101.1, that will implement the Commonwealth *Clean Energy Policy* set forth in § ~~67-102~~ 67-101.1.

B. In addition, the Plan shall include:

1. Projections of energy consumption in the Commonwealth, including the use of fuel sources and costs of electricity, natural gas, gasoline, coal, renewable resources, and other forms of non-greenhouse-gas-generating energy resources, such as nuclear power, used in the Commonwealth;

2. An analysis of the adequacy of electricity generation, transmission, and distribution resources in the Commonwealth for the natural gas and electric industries, and how distributed energy resources and regional generation, transmission, and distribution resources affect the Commonwealth;

3. An analysis of siting requirements for electric generation resources and natural gas and electric transmission and distribution resources, including an assessment of state and local impediments to expanded use of distributed resources and recommendations to reduce or eliminate these impediments;

4. An analysis of fuel diversity for electricity generation, recognizing the importance of flexibility in meeting future capacity needs;

5. An analysis of the efficient use of energy resources and conservation initiatives;

6. An analysis of how these Virginia-specific issues relate to regional initiatives to assure the adequacy of fuel production, generation, transmission, and distribution assets;

7. An analysis of siting of energy resource development, refining or transmission facilities to identify any disproportionate adverse impact of such activities on economically disadvantaged or minority communities;

8. With regard to any regulations proposed or promulgated by the U.S. Environmental Protection Agency to reduce carbon dioxide emissions from fossil fuel-fired electric generating units under § 111(d) of the Clean Air Act, 42 U.S.C. § 7411 (d), an analysis of (i) the costs to and benefits for energy producers and electric utility customers; (ii) the effect on energy markets and reliability; and (iii) the commercial availability of technology required to comply with such regulations;

9. An inventory of greenhouse gas emissions using a method determined by the Department of Environmental Quality for the four years prior to the issuance of the Plan; and

10. Recommendations, based on the analyses completed under subdivisions 1 through 9, for legislative, regulatory, and other public and private actions to implement the elements of the Commonwealth *Clean Energy Policy*.

C. In preparing the Plan, the Division and other agencies involved in the planning process shall utilize state geographic information systems, to the extent deemed practicable, to assess how recommendations in the Plan may affect pristine natural areas and other significant onshore natural resources. Effective October 1, 2024, interim updates on the Plan shall also contain projections for greenhouse gas emissions that would result from implementation of the Plan's recommendations.

D. In preparing the Plan, the Division and other agencies involved in the planning process shall develop a system for ascribing numerical scores to parcels of real property based on the extent to which the parcels are suitable for the siting of a wind energy facility or solar energy facility. For wind energy facilities, the scoring system shall address the wind velocity, sustained velocity, turbulence, proximity to electric power transmission systems, potential impacts to natural and historic resources and to economically disadvantaged or minority communities, and compatibility with the local land use plan. For solar energy facilities, the scoring system shall address the parcel's proximity to electric power transmission lines, potential impacts of such a facility to natural and historic resources and to economically disadvantaged or minority communities, and compatibility with the local land use plan. The system developed pursuant to this section shall allow the suitability of the parcel for the siting of a wind energy facility or solar energy facility to be compared to the suitability of other parcels so scored, and shall be based on a scale that allows the suitability of the parcel for the siting of a such an energy facility to be measured against the hypothetical score of an ideal location for such a facility.

E. After July 1, 2007, upon receipt by the Division of a recommendation from the Department of General Services, a local governing body, or the parcel's owner that a parcel of real property is a potentially suitable location for a wind energy facility or solar energy facility, the Division shall analyze the suitability of the parcel for the location of such a facility. In conducting its analysis, the Division shall ascribe a numerical score to the parcel using the scoring system developed pursuant to subsection D.

2. That §§ 67-101 and 67-102 of the Code of Virginia are repealed.