



## **APPENDIX A**

# **COMPLIANCE TABLE**

## **2023-2037 INTEGRATED RESOURCE PLAN**

Submitted to the Minnesota Public Utilities Commission

Docket No. **ET-2/RP-22-75**

March 31<sup>st</sup>, 2023

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Minnesota Statutes, Rules, PUC Order Points	Required Information	Location of Information in IRP
§216B.1691 Subd. 2a	<p><i>Eligible energy technology standard.</i> (a) Except as provided in paragraph (b), each electric utility shall generate or procure sufficient electricity generated by an eligible energy technology to provide its retail customers in Minnesota, or the retail customers of a distribution utility to which the electric utility provides wholesale electric service, so that at least the following standard percentages of the electric utility's total retail electric sales to retail customers in Minnesota are generated by eligible energy technologies by the end of the year indicated:</p> <p>(1) 2012 12 percent  (2) 2016 17 percent  (3) 2020 20 percent  (4) 2025 25 percent</p>	Section 6 - Minnesota Renewable Energy Standard Compliance
§216B.1691 Subd. 2e	<p>Rate impact of standard compliance; report. Each electric utility must submit to the commission and the legislative committees with primary jurisdiction over energy policy a report containing an estimation of the rate impact of activities of the electric utility necessary to comply with this section. In consultation with the Department of Commerce, the commission shall determine a uniform reporting system to ensure that individual utility reports are consistent and comparable, and shall, by order, require each electric utility subject to this section to use that reporting system. The rate impact estimate must be for wholesale rates and, if the electric utility makes retail sales, the estimate shall also be for the impact on the electric utility's retail rates. Those activities include, without limitation, energy purchases, generation facility acquisition and construction, and transmission improvements. An initial report must be submitted within 150 days of May 28, 2011. After the initial report, a report must be updated and submitted as part of each integrated resource plan or plan modification filed by the electric utility under section 216B.2422. The reporting obligation of an electric utility under this subdivision expires December 31, 2025, for an electric utility subject to subdivision 2a, paragraph (a), and December 31, 2020, for an electric utility subject to subdivision 2a, paragraph (b).</p>	Section 7 - Minnesota RES Rate Impact
§216B.1691 Subd. 3	<p>Utility plans filed with commission. (a) Each electric utility shall report on its plans, activities, and progress with regard to the objectives and standards of this section in its filings under section 216B.2422 or in a separate report submitted to the commission every two years, whichever is more frequent, demonstrating to the commission the utility's effort to comply with this section. In its resource</p>	<p>Section - 2.4 Generation Resources  Section 3 - The Preferred Plan  Section 4 - Current Outlook</p>

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	plan or a separate report, each electric utility shall provide a description of: (1) the status of the utility's renewable energy mix relative to the objective and standards; (2) efforts taken to meet the objective and standards; (3) any obstacles encountered or anticipated in meeting the objective or standards; and (4) potential solutions to the obstacles.	
216B.2403	Consumer-owned utility; energy-savings goal. (a) Each individual consumer-owned utility subject to this section has an annual energy-savings goal equivalent to 1.5 percent of gross annual retail energy sales, to be met with a minimum of energy savings from energy conservation improvements equivalent to at least 0.95 percent of the consumer-owned utility's gross annual retail energy sales. The balance of energy savings toward the annual energy-savings goal may be achieved only by the following consumer-owned utility activities: (1) energy savings from additional energy conservation improvements; (2) electric utility infrastructure projects, as defined in section 216B.1636, subdivision 1, that result in increased efficiency greater than would have occurred through normal maintenance activity; (3) net energy savings from efficient fuel-switching improvements that meet the criteria under subdivision 8, which may contribute up to 0.55 percent of the goal; or (4) subject to department approval, demand-side natural gas or electric energy displaced by use of waste heat recovered and used as thermal energy, including the recovered thermal energy from a cogeneration or combined heat and power facility.	Section 10 - Energy Efficiency
216B.2403 Sub (3)	(a) By June 1, 2022, and at least every three years thereafter, each consumer-owned utility must file with the commissioner an energy conservation and optimization plan that describes the programs for energy conservation, efficient fuel-switching, load management, and other measures the consumer-owned utility intends to offer to achieve the utility's energy savings goal.	Appendix D - 2020 CIP Approval Letter
§216B.2422 Subd. 2	Resource plan filing and approval. A utility shall file a resource plan with the commission periodically in accordance with rules adopted by the commission. The commission shall approve, reject, or modify the plan of a public utility, as defined in section 216B.02, subdivision 4, consistent with the public interest. In the resource plan proceedings of all other utilities, the commission's order shall be advisory and the order's findings and conclusions shall constitute prima facie evidence which may be rebutted by substantial evidence in all other proceedings. With respect to utilities other than those defined in section 216B.02, subdivision 4, the commission shall consider the filing requirements and decisions in any comparable proceedings in another jurisdiction. As a part	Section 3 - The Preferred Plan

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	of its resource plan filing, a utility shall include the least cost plan for meeting 50 and 75 percent of all new and refurbished capacity needs through a combination of conservation and renewable energy resources.	
§216B.2422 Subd. 2a	Historical data and advance forecast. Each utility required to file a resource plan under this section shall include in the filing all applicable annual information required by section 216C.17, subdivision 2, and the rules adopted under that section. To the extent that a utility complies with this subdivision, it is not required to file annual advance forecasts with the department under section 216C.17, subdivision 2.	Section 5.5 - Load Forecasts Appendix C - Advance Forecasts
§216B.2422 Subd. 2c	Long-range emission reduction planning. Each utility required to file a resource plan under subdivision 2 shall include in the filing a narrative identifying and describing the costs, opportunities, and technical barriers to the utility continuing to make progress on its system toward achieving the state greenhouse gas emission reduction goals established in section 216H.02, subdivision 1, and the technologies, alternatives, and steps the utility is considering to address those opportunities and barriers.	Section 3 - The Preferred Plan Section 8.9 -Greenhouse Gas Emissions
§216B.2422 Subd. 3(a)	<i>Environmental costs.</i> (a) The commission shall, to the extent practicable, quantify and establish a range of environmental costs associated with each method of electricity generation. A utility shall use the values established by the commission in conjunction with other external factors, including socioeconomic costs, when evaluating and selecting resource options in all proceedings before the commission, including resource plan and certificate of need proceedings.	Section 5 - Capacity Expansion Model
§216B.2422 Subd. 4	<i>Preference for renewable energy facility.</i> The commission shall not approve a new or refurbished nonrenewable energy facility in an integrated resource plan or a certificate of need, pursuant to section 216B.243, nor shall the commission allow rate recovery pursuant to section 216B.16 for such a nonrenewable energy facility, unless the utility has demonstrated that a renewable energy facility is not in the public interest. The public interest determination must include whether the resource plan helps the utility achieve the greenhouse gas reduction goals under section 216H.02, the renewable energy standard under section 216B.1691, or the solar energy standard under section 216B.1691, subdivision 2f.	Section 3 - The Preferred Plan
§216B.2422 Subd. 6	Consolidation of resource planning and certificate of need. A utility shall indicate in its resource plan whether it intends to site or construct a large energy facility. If the utility's resource plan includes a proposed large energy facility and construction of that facility is likely to begin before the utility files its next resource plan, the commission shall conduct the resource plan proceeding consistent with the requirements of section 216B.243 with respect to the proposed facility. If the commission	NA

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	approves the proposed facility in the resource plan, a separate certificate of need proceeding is not required.	
§216B.2422 Subd. 7	Energy storage systems assessment. (a) Each public utility required to file a resource plan under subdivision 2 must include in the filing an assessment of energy storage systems that analyses how the deployment of energy storage systems contributes to: (1) meeting identified generation and capacity needs; and evaluating ancillary services. The assessment must employ appropriate modeling methods to enable the analysis required in paragraph (a).	NA
§216B.2426	The commission shall ensure that opportunities for the installation of distributed generation, as that term is defined in section 216B.169, subdivision 1, paragraph (c), are considered in any proceeding under section 216B.2422, 216B.2425, or 216B.243.	Section 10 - Renewable Member Resources
§216H.02	<i>Greenhouse gas emissions control.</i> Minnesota state goal to reduce greenhouse gas emissions to a level of at least 15 percent below 2005 levels by 2015, 30 percent below 2005 levels by 2025, and 80 percent below 2005 levels by 2050.	Section 8.11 - Minnesota Next Generation Energy Act
§216H.06	<i>Emissions consideration in resource planning.</i> By January 1, 2008, the Public Utilities Commission shall establish an estimate of the likely range of costs of future carbon dioxide regulation on electricity generation. The estimate, which may be made in a commission order, must be used in all electricity generation resource acquisition proceedings. The estimates, and annual updates, must be made following informal proceedings conducted by the commissioners of commerce and pollution control that allow interested parties to submit comments.	Section 5 - Capacity Expansion Model

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Statutes	Minnesota Administrative Rules	Location in IRP
7843.0300, Subp. 3	<i>Completeness of filing.</i> The resource plan filing must contain the information required by part 7843.0400, unless an exemption has been granted under subpart 4.	Refer to contents of resource plan filing points listed below.
7843.0300, Subp. 5	<i>Copies of filings.</i> A covered utility shall submit 15 copies of its resource plan filing to the commission. The commission may request up to ten additional copies of combined and common filings. A utility shall also provide copies to the Minnesota Department of Commerce, the Residential and Small Business Utilities Division of the Office of the Attorney General, the Minnesota Environmental Quality Board and member agencies, and other interested persons or parties who request copies. A utility shall maintain a distribution list. The list must include the names and addresses of the persons or organizations receiving copies and the number of copies provided. A utility is not required to distribute more than 100 copies. However, a utility shall honor reasonable requests for copies of the nontechnical summary identified in part 7843.0400, subpart 4.	Submitted upon filing.
7843.0400, Subp. 1	<i>Advance forecasts.</i> A utility shall include in the filing identified in subpart 2 its most recent annual submission to the Minnesota Department of Commerce and the Minnesota Environmental Quality Board under Minnesota Statutes, sections 216B.2422, subdivision 2a, and 216C.17, and parts 7610.0100 to 7610.0600.	Appendix G - 7610 Compliance Filing
7843.0400, Subp. 2	<i>Resource plan.</i> A utility shall file a proposed plan for meeting the	Section 3 - The Preferred Plan Section 5 - Plan Development

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	service needs of its customers over the forecast period. The plan must show the resource options the utility believes it might use to meet those needs. The plan must also specify how the implementation and use of those resource options would vary with changes in supply and demand circumstances. The utility is only required to identify a resource option generically, unless a commitment to a specific resource exists at the time of the filing. The utility shall also discuss plans to reduce existing resources through sales, leases, deratings, or retirements.	
7843.0400, Subp. 3(A)	<i>Supporting information.</i> When a utility's existing resources are inadequate to meet the projected level of service needs, the supporting information must contain a complete list of resource options considered for addition to the existing resources. At a minimum, the list must include new generating facilities of various types and sizes and with various fuel types, cogeneration, new transmission facilities of various types and sizes, upgrading of existing generation and transmission equipment, life extensions of existing generation and transmission equipment, load-control equipment, utility-sponsored conservation programs, purchases from nonutilities, and purchases from other utilities. The utility may seek additional input from the commission regarding the resource options to be included in the list. For a resource option that could meet a significant part of the need identified by the forecast, the supporting information must include a general evaluation of the option, including its availability, reliability, cost, socioeconomic effects, and environmental effects.	Section 5 - Plan Development Section 5.6.3 - Potential Resources
7843.0400, Subp. 3(B)	<i>Supporting information.</i> The supporting information must	Section 5 - Plan Development

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	include descriptions of the overall process and of the analytical techniques used by the utility to create its proposed resource plan from the available options.	
7843.0400, Subp. 3(C)	<i>Supporting information.</i> The supporting information must include an action plan, a description of the activities the utility intends to undertake to develop or obtain noncurrent resources identified in its proposed plan. The action plan must cover a five-year period beginning with the filing date. The action plan must include a schedule of key activities, including construction and regulatory filings.	Section 3 - The Preferred Plan
7843.0400, Subp. 3(D)	<i>Supporting information.</i> For the proposed resource plan as a whole, the supporting information must include a narrative and quantitative discussion of why the plan would be in the public interest, considering the factors listed in part 7843.0500, subpart 3.	Section 3 - The Preferred Plan Section 12 - Minnesota Administrative Rule for Integrated Resource Plans
7843.0400, Subp. 4	<i>Nontechnical summary.</i> A utility shall include in its resource plan filing a nontechnical summary, not exceeding 25 pages in length and describing the utility's resource needs, the resource plan created by the utility to meet those needs, the process and analytical techniques used to create the plan, activities required over the next five years to implement the plan, and the likely effect of plan implementation on electric rates and bills.	Section 2 - Non-technical Summary Section 3 - The Preferred Plan



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Docket No. ET-2/RP-17-286 Order Points Dated November 28, 2018		
Order Point 3	Advise GRE to procure average annual energy savings of 122,228,338 kWh (1.00 percent scenario).	Section 10 - Energy Efficiency
Order Point 4a	Evaluate the cost-effective retirement of each of its coal plants, including Coal Creek and Spiritwood, using an appropriate capacity expansion model which must include Commission-approved externality costs and carbon dioxide regulatory costs in its analysis.	Section 4.10 - Spiritwood Station
Order Point 4b	Provide an analysis that models increased energy efficiency including the costs of both supply and demand side resources.	Section 5.6 - Capacity Expansion Model
Order Point 4c	Produce a load forecast that reflects the most current trends influencing electric consumption; and	Section 5.5 Load Forecasts
Order Point 4d	Provide a more in-depth discussion of how the distribution members of GRE handle their 5 percent renewable self-supply options.	Section 11 - Renewable Member Resources
Order Point 5a	Make clear both the transmission impacts and the broader societal impacts of any unit retirement scenarios;	Section 4.10 - Spiritwood Station
Order Point 5b	Consider a more systematic approach to modeling and include information that makes clear the type of resource added in the scenarios;	Section 5 - Plan Development

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