

APPENDIX A - COMPLIANCE MATRIX

Xcel Energy is committed to complying fully with all applicable statutes and rules and we believe our Plan reflects appropriate implementation of all requirements. We have prepared a matrix reflecting our inventory of requirements to be met in this Application and cross-referenced to the portion of the Plan that fulfills each compliance item.

Rules, Statutes, and Orders

Statute, Rule or Order	Subdivision or Order Point	Information Required by Statute	(7/1/2019) 2020-2034 IRP Location of Required Content
Minn. Stat. §216B.1691 Renewable Energy Objectives	Subdivision 2e.	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. 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.	Appendix N5: Biennial Report: Renewable Energy Obligation-Renewable Energy Standard Compliance Report Appendix N6: Renewable Energy Standard: Rate Impact Report
Minn. Stat. §216B.1691 Renewable Energy Objectives	Subdivision 3.	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, demonstrating to the commission the utility's effort to comply with this section. In its resource plan, 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.	Chapter 3: Minimum System Needs Appendix N4: Renewable Energy Compliance Positions Appendix N5: Biennial Report: Renewable Energy Obligation-Renewable Energy Standard Compliance Report
Minn. Stat. §216B.1691 Renewable Energy Objectives	Subdivision 10.	"Utility acquisition of resources. A competitive resource acquisition process established by the commission prior to June 1, 2007, shall not apply to a utility for the construction, ownership, and operation of generation facilities used to satisfy the requirements of this section unless, upon a finding that it is in the public interest, the commission issues an order on or after June 1, 2007, that requires compliance by a utility with a competitive resource acquisition process. A utility that owns a nuclear generation facility and intends to construct, own, or operate facilities under this section shall file with the commission on or before March 1, 2008, a renewable energy plan setting forth the manner in which the utility proposes to meet the requirements of this section. The utility shall update the plan as necessary in its filing under section 216B.2422. The commission shall approve the plan unless it determines, after public hearing and comment, that the plan is not in the public interest. As part of its determination of public interest, the commission shall consider the plan's impact on balancing the state's interest in: (1) promoting the policy of economic development in rural areas through the development of renewable energy projects, as expressed in subdivision 9; (2) maintaining the reliability of the state's electric power grid; and (3) minimizing cost impacts on ratepayers."	N/A - we are not proposing any specific resource acquisitions in this Resource Plan
Minn. Stat. §216B.2422. Resource Planning; Renewable Energy	Subdivision 2.	(c) As a part of its resource plan filing, a utility shall include the least cost plan for meeting 50 and 75 percent of all energy needs from both new and refurbished generating facilities through a combination of conservation and renewable energy resources.	Chapter 5: Economic Modeling Framework
Minn. Stat. §216B.2422. Resource Planning; Renewable Energy	Subdivision 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.	Appendix N1: Annual Report: Minnesota Electric
Minn. Stat. §216B.2422. Resource Planning; Renewable Energy	Subdivision 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.	Chapter 4: Preferred Plan Appendix H: Environmental Regulations Review

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Minn. Stat. §216B.2422. Resource Planning; Renewable Energy	Subdivision 3.	Environmental Costs. (a) 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.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
Minn. Stat. §216B.2422. Resource Planning; Renewable Energy	Subdivision 4.	Preference for renewable energy facility. 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. When making the public interest determination, the commission must consider: (1) 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.; (2) impacts on local and regional grid reliability; (3) utility and ratepayer impacts resulting from the intermittent nature of renewable energy facilities, including but not limited to the costs of purchasing wholesale electricity in the market and the costs of providing ancillary services; and (4) utility and ratepayer impacts resulting from reduced exposure to fuel price volatility, changes in transmission costs, portfolio diversification, and environmental compliance costs.	Chapter 4: Preferred Plan Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
Minn. Stat. §216B.2422. Resource Planning; Renewable Energy	Subdivision 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 analyzes how the deployment of energy storage systems contributes to: (1) meeting identified generation and capacity needs; and (2) evaluating ancillary services. (b) The assessment must employ appropriate modeling methods to enable the analysis required in paragraph (a).	Appendix F7: Minnesota Energy Storage Systems Assessment
Minn. Stat. §216B.2426. Opportunities for Distributed Generation		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.	Chapter 5: Economic Modeling Framework
Minn. Stat. §3.8851 Legislative Energy Commission	Subdivision 4.	Nuclear reports. The public utility that owns the Prairie Island and Monticello nuclear generation facilities shall update the reports required under section 116C.772, subdivisions 3 to 5, and shall submit those updates periodically to the Public Utilities Commission with the utility's resource plan filing under section 216B.2422 and to the Legislative Energy Commission.	Appendix N9: Triennial Filing: Nuclear Decommissioning Appendix N10: Nuclear Worker Transition Plan
Minn. Rule 7843.0300, Filing Requirements and Procedures	Subpart 3.	<i>Completeness of filing.</i> The resource plan must contain the information required by part 7843.0400, unless an exemption has been granted under subpart 4.	See below:
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 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 7610.0000 to 7610.0600.	Appendix N1: Annual Report: Minnesota Electric
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 2.	<i>Resource Plan.</i> A utility shall file a proposed plan for meeting the 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. Utility is only required to identify a resource option generically, unless a commitment to a specific resource exists at the time of the filing. Utility shall also discuss plans to reduce existing resources through sales, leases, deratings, or retirements.	Chapter 4: Preferred Plan Chapter 5: Economic Modeling Framework Appendix F3: Scenario Sensitivity Analysis: PVR and PVSC Summary
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 3.	<i>Supporting Information.</i> A utility shall include in its resource plan filing information supporting selection of the proposed resource plan.	Chapter 4: Preferred Plan Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs

Statute, Rule or Order	Subdivision or Order Point	Information Required by Statute	(7/1/2019) 2020-2034 IRP Location of Required Content
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 3A	A) When a utility's existing resources are inadequate to meet the projected level of resource 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 facility 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 non-utilities, 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.	Chapter 4: Preferred Plan Chapter 5: Economic Modeling Framework Appendix F6: Resource Option Management Appendix G1: Demand Side Management Appendix I: Supporting Infrastructure: Transmission & Distribution
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 3B	B) The supporting information must include descriptions of the overall process and of the analytical technique used by the utility to create its proposed resource plan from the available options.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 3C	C) 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. Action plan must cover a five-year period beginning with the filing date. Action plan must include a schedule of key activities, including construction and regulatory filings.	Chapter 4: Preferred Plan
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 3D	D) 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.	Chapter 4: Preferred Plan
Minn. Rule 7843.0400. Contents of Resource Plan Filings	Subpart 4.	Nontechnical summary. 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. Minn. Stat. §216B.1612,	Appendix D: Non-Technical Summary
Docket No. E999/CI-06-159			
<i>In the Matter of Commission Investigation and Determination under the Electricity Title, Section XII, of the Federal Energy Policy Act of 2005</i> August 10, 2007 Order	Order Point 2.	(Fossil Fuel Efficiency Standard) Investor-owned utilities shall include information in their Resource Plans generally describing how the utility is planning to address fossil fuel efficiency to meet the goals of this standard.	Appendix F2: Strategist Modeling Assumptions & Inputs Attachment A
<i>In the Matter of Commission Investigation and Determination under the Electricity Title, Section XII, of the Federal Energy Policy Act of 2005</i> August 10, 2007 Order	Order Point 3.	Investor-owned utilities shall include information in their Resource Plans with respect to: a. The heat rates of existing plants; b. Their efforts to maintain or improve heat rates over time; and c. Modeling runs(s) of ways to improve the heat rates of either the largest existing or the lowest heat rate generation plants.	Appendix F2: Strategist Modeling Assumptions & Inputs Attachment A
Docket No. E-002/RP-10-825			
<i>In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan</i> August 5, 2013 Notice	Page 1	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, 2f.	Chapter 4: Preferred Plan Appendix H: Environmental Regulations Review Appendix N4: Renewable Energy Compliance Positions Appendix N5: Biennial Report: REO-RES Compliance Report Appendix N7: Annual Report: Solar Energy Standard
Docket No. E-002/RP-10-825			
<i>In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan</i> August 5, 2013 Notice	Page 2, Para 1	The Commission expects utilities to include in their resource plans filed after August 1, 2013 an explanation how the resource plan helps the utility achieve the greenhouse gas reduction goals, renewable energy standard, and solar energy standard as listed in the above-referenced legislation. Parties should also be prepared to discuss the matter in comments.	Chapter 4: Preferred Plan Appendix H: Environmental Regulations Review Appendix N4: Renewable Energy Compliance Positions Appendix N5: Biennial Report: REO-RES Compliance Report Appendix N7: Annual Report: Solar Energy Standard
Docket No. E-002/RP-10-825			
<i>In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan</i> August 5, 2013 Notice	Page 2, Para 2	Utilities should consider adding to their initial resource plan filings the supplemental information listed at page 4 of the Commission's May 10, 2013 Order regarding its completeness review of MP's resource plan in Docket E015/RP-13-53.	See below:

Statute, Rule or Order	Subdivision or Order Point	Information Required by Statute	(7/1/2019) 2020-2034 IRP Location of Required Content
Docket No. E-002/RP-10-825 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan August 5, 2013 Notice	E015/RP-13-53; 5/10/13 Order Page 4	1. How the addition of SO2 allowance prices would have impacted its base case and preferred plan; and	Appendix F2: Strategist Modeling Assumptions & Inputs
Docket No. E-002/RP-10-825 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan August 5, 2013 Notice	E015/RP-13-53; 5/10/13 Order Page 4	2. How the use of unforced capacity would have impacted its base case and preferred plan;	Appendix F2: Strategist Modeling Assumptions & Inputs
Docket No. E-002/RP-10-825 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan August 5, 2013 Notice	E015/RP-13-53; 5/10/13 Order Page 4	3. How the use of Commission-approved CO2 values from its November 2, 2012 Order affect its base case and preferred plan;	Superseded by the June 11, 2018 Order in Docket Nos. E-999/CI-07-1199 & E-999/DI-17-53 Appendix F2: Strategist Modeling Assumptions & Inputs
Docket No. E-002/RP-10-825 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan August 5, 2013 Notice	E015/RP-13-53; 5/10/13 Order Page 4	4. How MP has considered water consumption issues and potential effects on aquatic life from water intake and discharge in its resource plan, both qualitatively and quantitatively.	Appendix H: Environmental Regulations Review Appendix F2: Strategist Modeling Assumptions & Inputs Attachment B
Docket No. E-002/RP-10-825 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan August 5, 2013 Notice	E015/RP-13-53; 5/10/13 Order Page 4	5. How MP has taken into account possible effects of drought and high water temperature on generating plant availability in its modeling, including the results of modeling the range of these possible effects. Reference to 13-53 Order pg 4.	Appendix F2: Strategist Modeling Assumptions & Inputs Attachment B
Docket No. E-002/RP-10-825 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan August 5, 2013 Notice	E015/RP-13-53; 5/10/13 Order Page 4	6. How MP has considered demand side management (DSM) programs in its resource plan, and the pros and cons of DSM being considered a reduction in load versus a resource to be chosen, including modeling a range of assumptions.	Chapter 3: Minimum System Needs Chapter 4: Preferred Plan Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs Appendix G1: Demand Side Management
Docket No. E002/RP-10-825 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2011-2025 Resource Plan August 5, 2013 Notice	Page 2, Para 3	Utilities consider convening a stakeholder meeting prior to filing their initial IRPs to answer questions about assumptions used in the filing, for the purpose of responding to questions which could enhance parties' understanding of the filing and reducing the number of information requests parties may need to file.	Appendix O1: Summary of IRP Stakeholder Engagement
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 4a	4. Xcel's resource plan is modified as follows: a. to remove 400 MW of large-scale solar in 2016–2021. Xcel shall acquire approximately 650 MW of solar in 2016–2021 through a combination of the Company's community solar gardens program or other acquisitions. The Company may pursue additional, cost-effective solar resources if it is in the best interests of its customers.	Chapter 3: Minimum System Needs Appendix N8: Monthly Report: Solar Gardens June 2019
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 7	7. Xcel's schedule to retire Sherco 2 in 2023, and Sherco 1 in 2026, is approved.	Chapter 4: Preferred Plan
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 8	8. The Commission finds that more likely than not there will be a need for approximately 750 MW of intermediate capacity coinciding with the retirement of Sherco 1 in 2026.	Chapter 4: Preferred Plan
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 10	10. Xcel shall acquire no less than 400 MW of additional demand response by 2023.	Chapter 3: Minimum System Needs Chapter 4: Preferred Plan Chapter 5: Economic Modeling Framework Appendix G1: Demand Side Management

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Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 12	12. Xcel shall investigate the potential for an energy-efficiency competitive bidding process for customers that have opted out of the statewide Conservation Improvement Program (CIP) under Minn. Stat. § 216B.241, subd. 1a(b).	Appendix G1: Demand Side Management
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 13	13. Xcel shall file its next resource plan on February 1, 2019.	See Docket No. E002/RP-15-21, Minnesota Public Utilities Commission's Order Extending Deadline for Filing Next Resource Plan (January 30, 2019)
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 14a	14. In its next resource plan filing, Xcel shall: a. describe its plans and possible scenarios for cost-effective and orderly retirement of its aging baseload fleet, including Sherco, King, Monticello, and Prairie Island.	Appendix J1: Baseload Study
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 14b	b. evaluate combinations of supply-side (distributed and centralized), demand-side, and transmission solutions that could in the aggregate meet post-retirement energy and capacity needs as well as contribute to grid support.	Chapter 5: Economic Modeling Framework Appendix I: Sherco CC Appendix I: Supporting Infrastructure: Transmission & Distribution Appendix J1: Baseload Study
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 14c	c. explore the role of cost-effective combined heat and power solutions.	Appendix S: Combined Heat and Power Study (EPRI) Appendix F6: Resource Options
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 14d	d. report on its solar acquisition progress.	Chapter 3: Minimum System Needs Appendix N8: Monthly Report: Solar Gardens June 2019
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 14e	e. provide a full and thorough cost-effectiveness study that takes into account the technical and economic achievability of 1,000 MW of additional demand response, or approximately 20% of Xcel's system peak in total by 2025.	Appendix G1: Demand Side Management Appendix G3: DR Cost Effectiveness at NSP (Brattle)
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 14f	f. summarize its investigation and findings concerning the potential for an energy-efficiency competitive bidding process for customers that have opted out of CIP.	Appendix G1: Demand Side Management
Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 11, 2017 Order	Order Point 15	15. In future resource plan filings, analysis and inputs must, to the extent possible, be consistent with Xcel's distribution system planning.	Chapter 5: Economic Modeling Framework Appendix F1: Load & DER Forecasting
Docket No. E999/CI-07-1199 & E999/DI-17-53 In the Matter of Establishing an Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minnesota Statutes § 216H.06 & In the Matter of Establishing an Updated 2016 Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minn. Stat. § 216H.06 June 11, 2018 Order	Order Point 1	1. The Commission hereby quantifies and establishes the range of regulatory costs of carbon dioxide emissions as \$5 to \$25 per short ton effective 2025 and thereafter.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs

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<p>Docket No. E999/CI-07-1199 & E999/DI-17-53 In the Matter of Establishing an Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minnesota Statutes § 216H.06 & In the Matter of Establishing an Updated 2016 Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minn. Stat. § 216H.06 June 11, 2018 Order</p>	Order Point 2B	B. Incorporate, for all years, the high end of the range of environmental costs for CO2 as approved by the Commission in its January 3, 2018 order.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
<p>Docket No. E999/CI-07-1199 & E999/DI-17-53 In the Matter of Establishing an Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minnesota Statutes § 216H.06 & In the Matter of Establishing an Updated 2016 Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minn. Stat. § 216H.06 June 11, 2018 Order</p>	Order Point 2C	C. Incorporate the low end of the range of environmental costs for CO2 but substituting, for planning years after 2024, the low end of the range of regulatory costs for CO2 regulations, in lieu of environmental costs.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
<p>Docket No. E999/CI-07-1199 & E999/DI-17-53 In the Matter of Establishing an Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minnesota Statutes § 216H.06 & In the Matter of Establishing an Updated 2016 Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minn. Stat. § 216H.06 June 11, 2018 Order</p>	Order Point 2D	D. Incorporate the high end of the range of environmental costs for CO2 but substituting, for planning years after 2024, the high end of the range of regulatory costs for CO2 regulations, in lieu of environmental costs.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
<p>Docket No. E999/CI-07-1199 & E999/DI-17-53 In the Matter of Establishing an Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minnesota Statutes § 216H.06 & In the Matter of Establishing an Updated 2016 Estimate of the Costs of Future Carbon Dioxide Regulation on Electricity Generation Under Minn. Stat. § 216H.06 June 11, 2018 Order</p>	Order Point 2	Consistent with the Commission decision in the Order Updating Environmental Costs, utilities shall include at least one scenario that excludes consideration of CO2 costs.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
<p>E999/CI-14-643 In the Matter of the Further Investigation into Environmental and Socioeconomic Costs Under Minnesota Statutes Section 216B.2422, Subdivision 3 1/3/2018 Order</p>	Order Point 1	1. The Commission hereby quantifies and establishes the range of environmental cost of carbon dioxide emissions associated with electricity generation as follows: •The low end of the range shall reflect the global damage of the last (marginal) short ton emitted, calculated through the year 2100, with a 5.0% discount rate. •The high end of the range shall reflect the global damage of the last (marginal) short ton emitted, calculated through the year 2300, with a 3.0% discount rate.	Chapter 5: Economic Modeling Framework Appendix F2: Strategist Modeling Assumptions & Inputs
<p>E999/CI-14-643 In the Matter of the Further Investigation into Environmental and Socioeconomic Costs Under Minnesota Statutes Section 216B.2422, Subdivision 3 1/3/2018 Order</p>	Order Point 3	3. In resource-selection proceedings, utilities shall continue to analyze potential resources under a range of assumptions about environmental values—including at least one scenario that excludes consideration of environmental externalities.	Appendix F3: Scenario Sensitivity Analysis: PVR and PVSC Summary
<p>Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 30, 2019 Order</p>	Order Point 1	1. Xcel's next resource plan shall be filed by July 1, 2019.	This filing has been made July 1, 2019 in Docket No. E002/RP-19-368

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<p>Docket No. E002/RP-15-21 In the Matter of Northern States Power Company d/b/a/Xcel Energy's Application for Approval of its 2016-2030 Resource Plan January 30, 2019 Order</p>	<p>Order Point 2</p>	<p>2. Xcel shall submit the files necessary to recreate the Company's 2020–2034 Reference Case, as summarized at Xcel's October 23, 2018 IRP Workshop, and shall provide the Strategist files with the same assumptions as in the Company's 2020–2034 Reference Case but using the midpoint of the Commission's most recently approved externalities and regulatory costs of carbon.</p>	<p>DOC IR No. 1 Docket No. IP6949, E002/PA-18-702 - submitted on November 27, 2019. See Compliance Filing submitted on May 30, 2019 in Docket No. E002/RP-19-368 regarding this Order Requirement for additional information.</p>