



414 Nicollet Mall
Minneapolis, MN 55401

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November 26, 2019

—Via Electronic Filing—

Daniel P. Wolf
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: COMPLIANCE FILING
BUSINESS INCENTIVE AND SUSTAINABILITY RIDER
DOCKET NO. E002/GR-12-961

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits the attached annual report to the Minnesota Public Utilities Commission in compliance with the Company's Business Incentive and Sustainability (BIS) Rider as approved by the Commission's September 3, 2013 and April 8, 2016 Orders in this docket.¹

Attachments A-I2 contain trade secret information as defined by Minn. Stat. § 13.37(1)(b). This information contains conservation, usage and pricing data that derives independent economic value from not being generally known or readily ascertainable by others who could obtain a financial advantage from its use. Based on that, the Company maintains this information as trade secret.

We have electronically filed this document with the Minnesota Public Utilities Commission and copies have been served on the parties on the attached service list. Please contact me at holly.r.hinman@xcelenergy.com or (612) 330-5941, or Jennifer Roesler at jennifer.roesler@xcelenergy.com or (612) 330-1925 if you have any questions regarding this filing.

Sincerely,

/s/

HOLLY HINMAN
REGULATORY MANAGER

c: Service list

¹ Docket No. E002/GR-12-961, September 3, 2013 FINDINGS OF FACT, CONCLUSIONS AND ORDER, Order Point 33.

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Katie Sieben	Chair
Dan Lipschultz	Commissioner
Valerie Means	Commissioner
Matthew Schuerger	Commissioner
John Tuma	Commissioner

IN THE MATTER OF THE APPLICATION OF
NORTHERN STATES POWER COMPANY
FOR AUTHORITY TO INCREASE RATES FOR
ELECTRIC SERVICE IN MINNESOTA

DOCKET NO. E002/GR-12-961

**BUSINESS INCENTIVE AND
SUSTAINABILITY RIDER
ANNUAL REPORT**

OVERVIEW

Northern States Power Company, doing business as Xcel Energy, submits this report to the Minnesota Public Utilities Commission in compliance with the Company's Business Incentive and Sustainability (BIS) Rider as approved by the Commission's September 3, 2013 and April 8, 2016 Orders in this docket.¹

The BIS Rider is an economic development incentive that is available to new and existing demand-metered commercial and industrial customers with new or additional load of 350 kW or greater. Enrolled customers receive discounts on their demand-metered rate schedule in years one to five and resume normal charges in year six.

In our September 30, 2019 letter in this docket, we indicated plans to propose revisions to the BIS Rider tariff. Those revisions were proposed in our current rate case (Docket No. E002/GR-19-564), in the Direct Testimony of Company witness Mr. Steven V. Huso. The proposed revisions clarify, among other things, that a customer may receive a BIS Rider discount at multiple delivery points as long as each delivery point independently qualifies and the delivery point is not currently receiving service under the BIS Rider.

¹ Docket No. E002/GR-12-961, September 3, 2013 FINDINGS OF FACT, CONCLUSIONS AND ORDER, Order Point 33.

We currently have eight customers on the BIS Rider and for the reporting period of November 2018 through October 2019. We have received \$12,183,748 in total incremental revenues and experienced \$2,937,978 in incremental costs due to these customers receiving service under this Rider. We expect to enroll additional customers in the BIS Rider in 2020.²

The BIS Rider is designed to complement our overall efforts to provide a safe, reliable, competitively priced service to customers by providing incentives to those customers with alternatives for locating their businesses or acquiring their energy. The BIS Rider improves our offers to companies evaluating locations and utilities, as we understand electric rates are an important decision factor in this competitive market. The BIS Rider supports additional business investment, possible job growth, and local tax growth.

A. Program Description

The BIS Rider is an economic development incentive that provides demand charge discounts for a limited time to qualifying load additions by new or existing customers. Customers receiving discounts under the BIS Rider are required to enter into a six-year service agreement. The minimum new load requirement is 350 kW. The demand charge discount is 40 percent for three years, 20 percent for the fourth year, and 10 percent for the fifth year of the discount. The BIS Rider was approved by the Commission in an electric rate case in 2013.³

Application of the Rider requires Company approval, an energy audit, participation in an energy efficiency program, and customer payment of any significant additional capital costs that are required to supply service to the new load.

B. Program Reporting Requirements

The Company's BIS Rider tariff⁴ requires that the Company:

File a report with the Commission identifying the number of customers receiving service under this Rider and the associated incremental additional revenues received by the Company and the incremental additional costs experienced by the Company.

² An ESA with Proto Labs was submitted on November 11, 2019.

³ Docket No. E002/GR-12-961.

⁴ Northern States Power Company, Minnesota Electric Rate Book, Section 5, Sheet Nos. 139-141.

In addition, after submission of a compliance filing in January 2016, the Commission added the following additional filing requirements as laid out in their April 8, 2016 Order in this docket:

- 1) Information about the cumulative generation capacity that is necessary to serve the new load incentivized by the BIS Rider and its relationship to, and impacts on, (a) the Company’s overall generation requirements; and (b) the Company’s efforts to reduce the system peak through load management and demand response.
- 2) Information about the relationship between customers added to the BIS Rider and any sales forecasts provided for pending rate cases or other dockets involving sales forecasting.
- 3) Information about the energy audit and other sustainability efforts required by the language of the BIS Rider tariff.
- 4) Information about the impact of the BIS Rider discount on incentivizing new energy consumption by business customers.
- 5) Information about the “Revenue Recovery” provision (noted above) of the BIS Rider Tariff – whether and how Xcel has sought, or intends to seek, recovery of the shortfall related to the BIS discount from other customer classes; and
- 6) Information about the amount of BIS Rider discounts and their financial impact on other classes.

Attachment A to this filing contains the above information required by the Commission’s Order.

B. Customers

We currently have eight customers receiving service under this Rider. The incremental revenues the Company received and the incremental costs experienced due to these customers receiving service under this Rider are shown in the following attachments:

Attachment B	Rosemount, Inc. (Emerson)
Attachment C1 & C2	Advanced Extrusion, Inc.
Attachment D	LeafLine Labs LLC
Attachment E	New Plastics Plus, Inc.
Attachment F	Grede, LLC
Attachment G	Glasshouse LLP
Attachment H	Polar Semiconductor, LLC
Attachment I1 & I2	RMS Company

1. *Rosemount, Inc.*

May 2015 was the first month that Rosemount, Inc. received service under the BIS Rider. Attachment B shows the revenues and costs through October 2019.

2. *Advanced Extrusion, Inc.*

February 2016 was the first month that Advanced Extrusion, Inc. received service under the BIS Rider. Attachments C1 and C2 show the revenues and costs through October 2019.

3. *LeafLine Labs LLC*

February 2016 was the first month that LeafLine Labs LLC received service under the BIS Rider. Attachment D shows the revenues and costs through October 2019.

4. *New Plastics Plus, Inc.*

February 2016 was the first month that New Plastics Plus, Inc. received service under the BIS Rider. Attachment E shows the revenues and costs through October 2019.

5. *Grede, LLC*

February 2016 was the first month that Grede, LLC received service under the BIS Rider. Attachment F shows the revenues and costs through October 2019.

6. *Glasshouse LLP*

June 2018 was the first month that Glasshouse LLP received service under the BIS Rider. Attachment G shows the revenues and costs through October 2019.

7. *Polar Semiconductor, LLC*

June 2019 was the first month that Polar Semiconductor, LLC received service under the BIS Rider. Attachment H shows the revenues and costs through October 2019.

8. *RMS Company*

August 2019 was the first month RMS Company received service under the BIS Rider. Attachments I1 and I2 show the revenues and costs through October 2019.

CONCLUSION

Xcel Energy appreciates the opportunity to provide the Commission with this information regarding our BIS Rider and respectfully requests the Commission accept this annual report.

Dated: November 26, 2019

Northern States Power Company

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BIS Rider Annual Report

Attachment A

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Below we provide BIS Rider information in compliance with the Minnesota Public Utilities Commission's April 8, 2016 Order.

- 1) Information about the cumulative generation capacity that is necessary to serve the new load incentivized by the BIS Rider and its relationship to, and impacts on, (a) the Company's overall generation requirements; and (b) the Company's efforts to reduce the system peak through load management and demand response.**

The generation capacity necessary to serve the new load is reported as 25,810 kW (25.8 MW).

- a) The BIS incentivized load represents a 0.28% increase of the Company's overall generation requirements, and therefore does not materially impact the Company's overall generation requirements.
- b) The 2020-2034 Upper Midwest Resource Plan (Docket No. E002/RP-19-368) forecasts Load Management resources exceeding 10% of the total NSP System Obligation. While the BIS Rider has incentivized new load growth, this load will not have a material impact on the Company's efforts to reduce the system peak through load management and demand response.

- 2) Information about the relationship between customers added to the BIS Rider and any sales forecasts provided for pending rate cases or other dockets involving sales forecasting.**

In May 2019, Xcel Energy filed its 2020 Annual Fuel Forecast and Monthly Fuel Cost Charges (Docket No. E002/AA-19-293). That filing included the sales forecast developed in March 2019, which did not include any explicit adjustments for load increases associated with BIS Rider applications. Increases in sales from these BIS Riders either were embedded in the historical data or implicitly captured by the established forecasting process. At the time this sales forecast was developed for Docket No. E002/AA-19-293, the BIS Rider applicants included Advanced Extrusion, Inc., Glasshouse, LLC, Grede, LLC, LeafLine Labs, LLC, New Plastics Plus, Inc., and Rosemount, Inc.

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Attachment A

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In the Company's current Integrated Resource Plan (Docket No. E002/RP-19-368), the sales forecast was developed in August 2018 and did not include any explicit adjustments for load increases associated with BIS Rider applications. Increases in sales from these BIS Rider applicants either were embedded in the historical data or implicitly captured by the established forecasting process. At the time this sales forecast was developed for the Resource Plan, the BIS Rider applicants included Advanced Extrusion, Inc., Grede, LLC, LeafLine Labs, LLC, New Plastics Plus, Inc., and Rosemount, Inc.

For the Company's pending Minnesota electric rate case (Docket No. E002/GR-19-564), the sales forecast was developed in June 2019 and did not include any sales forecast adjustments for the BIS Rider applicants that were identified at the time the sales forecast was developed. The Company determined that any increases in sales from the BIS Rider applicants that were identified at the time the sales forecast was developed (Advanced Extrusion, Inc., Glasshouse, LLP, LeafLine Labs, LLC, New Plastics Plus, Inc., and Rosemount, Inc.) would be implicitly captured by the established forecasting process. The BIS Rider application for Polar Semiconductor, LLC was not in effect until June 2019 and the application for RMS Company was not in effect until August 2019. While not explicitly considered when the sales forecast was developed, any increases in sales from these BIS Riders would be implicitly captured by the established forecasting process.

3) Information about the energy audit and other sustainability efforts required by the language of the BIS Rider tariff.

A requirement for BIS Rider participation is that the customer participates in Xcel Energy's energy conservation program. The Company offers many packages that address energy conservation. Our program for new customers typically starts with our Energy Design Assistance program. This program helps customers by providing comprehensive energy modeling for new buildings, and provides recommendations for energy efficiency measures that can be incorporated into the building's construction. If the customer plans to operate its business in an existing building, we generally include the customer in our Process Efficiency program. This holistic program provides a broad opportunity for customers to participate in all of our programs. We work with them to establish long term goals and track results.

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BIS Rider Annual Report

Attachment A

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Below we discuss the specific actions each of the six currently enrolled BIS Rider customers are taking with regard to sustainability efforts.

a. Rosemount, Inc.

In June 2016, Rosemount and Xcel Energy started the Energy Design Assistance (EDA) program, which also provides energy modeling services for new facilities or large-scale renovations, for Phases 3 and 4 for Rosemount's expansion at their Shakopee facility. We are performing a thorough energy study/audit of their building plans. Our goal with the EDA program is to identify energy-saving opportunities up front, so customers can make smart design choices that will save energy over the long term.

Two energy conservation projects completed in 2017 were **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]**.

During the current reporting period we have been engaging the customer regarding our Process Efficiency Program.

b. Advanced Extrusion, Inc.

Advanced Extrusion and Xcel Energy started working together on our Process Efficiency Program in November 2013, which is a three-phase program that helps customers identify energy-saving opportunities, scope energy efficiency potential and implement energy efficiency improvements through an energy management plan. We have helped to analyze **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]** opportunities with Advanced Extrusion.

Through our Process Efficiency Program, Advanced Extrusion, Inc. is currently working on **[PROTECTED DATA BEGINS**

PROTECTED DATA ENDS], all of which are process improvements that have an energy savings component and reduce scrap. Advanced Extrusion also completed **[PROTECTED DATA BEGINS**

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BIS Rider Annual Report

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c. LeafLine Labs LLC

In February 2015, LeafLine Labs and Xcel Energy started the Energy Design Assistance (EDA) program for their new Cottage Grove facility. We did a significant and thorough energy study/audit of their building plans which, because of customer-implemented improvements, resulted in over 500,000 kWh saved.

We are currently working on **[PROTECTED DATA BEGINS
PROTECTED DATA ENDS]** for LeafLine Labs.

d. New Plastics Plus, Inc.

New Plastics Plus and Xcel Energy performed a **[PROTECTED DATA BEGINS
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The **[PROTECTED DATA BEGINS
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PROTECTED DATA ENDS]. The final report included 534,930 kWh in savings. They are also enrolled in the peak control program for the new facility.

e. Grede, LLC

Grede and Xcel Energy are working together on the Process Efficiency Program. The work began in mid-2010, and we met in late 2016 to discuss

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BIS Rider Annual Report

Attachment A

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conservation options for their current expansion. We completed a significant and thorough energy study/audit of their building and production units. This is an ongoing effort to provide energy conservation information and promote energy efficiency.

Grede is working on quantifying energy savings related to **[PROTECTED DATA BEGINS**

PROTECTED DATA ENDS]. Grede has also completed conservation projects relating to **[PROTECTED DATA BEGINS**
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f. Glasshouse LLP

Glasshouse LLP has completed rebates for **[PROTECTED DATA BEGINS**

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ENDS]. Glasshouse is working on increasing their size, and as the project develops additional energy conservation measures are anticipated.

g. Polar Semiconductor

Polar Semiconductor continues to aggressively utilize Xcel Energy's Process Efficiency program. In the past year, Polar Semiconductor has worked with Xcel Energy on six large efficiency projects resulting in over 1.2 million kilowatt-hours of savings. The projects included improvements to their **[PROTECTED DATA BEGINS**
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h. RMS Company

RMS has been very active in engaging Xcel Energy on efficiency projects. RMS has replaced traditional machining equipment with 3D printing, capturing energy savings and improving the overall energy intensity of its manufacturing

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BIS Rider Annual Report

Attachment A

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process. RMS has completed 4 efficiency projects just in the last year resulting in about 500,000 kilowatt-hours of savings. In addition to process-related projects, the customer upgraded several **[PROTECTED DATA BEGINS PROTECTED DATA ENDS]**.

4) Information about the impact of the BIS Rider discount on incentivizing new energy consumption by business customers.

The BIS Rider provides a competitive platform to attract customers. We have heard from customers that the BIS Rider played an important role in their decision to locate or expand operations in Minnesota. The BIS Rider contributes to improving our offers to companies evaluating locations and utilities, as we understand pricing for electric service is among the predominant decision factors in this competitive market. The BIS Rider helps provide an incentive package, along with local and state government initiatives, to get businesses, and the jobs they generate, into Minnesota.

5) Information about the “Revenue Recovery” provision of the BIS Rider Tariff – whether and how Xcel has sought, or intends to seek, recovery of the shortfall related to the BIS discount from other customer classes.

The July 12, 2017 final rates compliance filing for our last rate case (Docket No. E002/GR-15-826) included recovery of ordered rate level BIS Rider discounts of \$379,000 associated with qualifying actual year 2016 billed demand of 96,018 kW. BIS discount quantities were recovered from all customer classes based on class percent of total retail revenue. In the Company’s November 1, 2019 general rate case filing (Docket No. E002/GR-19-564), the forecasted test year 2020 BIS Rider discount level at present rates is \$410,000 associated with billed demand of 97,321 kW.

6) Information about the amount of BIS Rider discounts and their financial impact on other classes.

The amount of BIS Rider discounts recovered in current rates, relative to total weather-normalized year 2016 compliance sales, is \$379,000. Responsibility for the recovery of this discount amount was distributed to customer classes as shown in the following table. The total actual amount of discounts provided to participating BIS Rider customers for the 12 months ending October 2019 was \$470,351.

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BIS Rider Annual Report

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BIS Rider Discount Recovery by Customer Class in Current Rates

Class	Allocation	Recovery
Residential	36.73%	\$139,328
C&I Non-Demand	3.51%	\$13,318
C&I Demand	58.84%	\$223,225
Lighting	0.90%	\$3,399
Interdepartmental	0.02%	\$82
Total	100.00%	\$379,352

Rosemount Actual 2019 Revenues and Costs

Year	Rosemount kWh Usage				Rosemount Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Total Incremental Energy Costs
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Year	Rosemount Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	Rosemount Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	15 = 15 - 14
	Rosemount Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	Rosemount Electric Revenue After BIS Rider Discount **	Rosemount Electric Revenue in Excess of Incremental Costs
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* The distribution feeder serving Rosemount/Emerson was previously scheduled for upgrade in 2016.

** Excludes Taxes and City Fees.

Advanced Extrusion Actual 2019 Revenues and Costs

Premise: [PROTECTED DATA BEGINS PROTECTED DATA ENDS]

Year	Advanced Extrusion kWh Usage				Advanced Extrusion Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Total Incremental Energy Costs
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Year	Advanced Extrusion Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	Advanced Extrusion Margin Contribution Analysis		
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	Advanced Extrusion Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	Advanced Extrusion Electric Revenue After BIS Rider Discount **	Advanced Extrusion Electric Revenue in Excess of Incremental Costs
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* No additional distribution costs to provide service.

** Excludes Taxes and City Fees.

Advanced Extrusion Actual 2019 Revenues and Costs

Premise: [PROTECTED DATA BEGINS PROTECTED DATA ENDS]

Year	Advanced Extrusion kWh Usage				Advanced Extrusion Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Total Incremental Energy Costs
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Year	Advanced Extrusion Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	Advanced Extrusion Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	Advanced Extrusion Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	Advanced Extrusion Electric Revenue After BIS Rider Discount **	Advanced Extrusion Electric Revenue in Excess of Incremental Costs
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* No additional distribution costs to provide service.

** Excludes Taxes and City Fees.

LeafLine Labs Actual 2019 Revenues and Costs

Year	LeafLine Labs kWh Usage				LeafLine Labs Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Annual Avg Marginal (\$ per kWh)	Annual Avg Marginal (\$ per kWh)	Annual Avg Marginal (\$ per kWh)	Annual Avg Marginal (\$ per kWh)	
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Year	LeafLine Labs Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	LeafLine Labs Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	LeafLine Labs Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	LeafLine Labs Electric Revenue After BIS Rider Discount **	LeafLine Labs Electric Revenue in Excess of Incremental Costs
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* Includes a new transformer, cable, pad and poles installed to provide service, just a service tap was required.

** Excludes Taxes and City Fees.

New Plastics Plus Actual 2019 Revenues and Costs

Year	New Plastics Plus kWh Usage				New Plastics Plus Incremental Energy Cost Analysis				Total Incremental Energy Costs 9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Average Marginal On-Peak (\$ per kWh)	Average Marginal Off-Peak (\$ per kWh)	Average Marginal On-Peak (\$ per kWh)	Average Marginal Off-Peak (\$ per kWh)	Total Incremental Energy Costs
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Year	New Plastics Plus Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	New Plastics Plus Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	New Plastics Plus Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	New Plastics Plus Electric Revenue After BIS Rider Discount **	New Plastics Plus Electric Revenue in Excess of Incremental Costs
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* Includes a new transformer with associated cable, meter, and pad, as well as all connection devices.□

** Excludes Taxes and City Fees.

Grede, LLC Actual 2019 Revenues and Costs

Year	Grede kWh Usage				Grede Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
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Year	Grede Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	Grede Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	Grede Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	Grede Electric Revenue After BIS Rider Discount **	Grede Electric Revenue in Excess of Incremental Costs
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* Includes a new distribution feeder, new transformer, cable, meter, pad and connection devices.

** Excludes Taxes and City Fees.

Glasshouse Actual 2019 Revenues and Costs

Year	Glasshouse kWh Usage				Glasshouse Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Marginal Peak On- (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Total Incremental Energy Costs
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PROTECTED DATA ENDS]

Year	Glasshouse Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	Glasshouse Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	Glasshouse Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	Glasshouse Electric Revenue After BIS Rider Discount **	Glasshouse Electric Revenue in Excess of Incremental Costs
	[PROTECTED DATA BEGINS]						
1							
2							
3							
4							
5							
6							
7							

PROTECTED DATA ENDS]

* Includes cost of transformer and service extension.

** Excludes Taxes and City Fees.

Polar Semiconductor Actual 2019 Revenues and Costs

Year	Polar Semiconductor kWh Usage				Polar Semiconductor Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Marginal On-Peak (\$ per kWh)	Marginal Off-Peak (\$ per kWh)	Total Incremental Energy Costs
	[PROTECTED DATA BEGINS]								
1									
2									
3									
4									
5									
6									
7									

PROTECTED DATA ENDS]

Year	Polar Semiconductor Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	Polar Semiconductor Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	Polar Semiconductor Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	Polar Semiconductor Electric Revenue After BIS Rider Discount **	Polar Semiconductor Electric Revenue in Excess of Incremental Costs
	[PROTECTED DATA BEGINS]						
1							
2							
3							
4							
5							
6							
7							

PROTECTED DATA ENDS]

* no additional investment was required to serve the load.

** Excludes Taxes and City Fees.

RMS Company Actual 2019 Revenues and Costs

Premise: [PROTECTED DATA BEGINS PROTECTED DATA ENDS]

Year	RMS Company kWh Usage				RMS Company Incremental Energy Cost Analysis				Total Incremental Energy Costs
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Average Marginal On-Peak (\$ per kWh)	Average Marginal Off-Peak (\$ per kWh)	Average Marginal On-Peak (\$ per kWh)	Average Marginal Off-Peak (\$ per kWh)	9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	[PROTECTED DATA BEGINS]								
1									
2									
3									
4									
5									
6									
7									

PROTECTED DATA ENDS]

Year	RMS Company Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	RMS Company Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	RMS Company Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	RMS Company Electric Revenue After BIS Rider Discount **	RMS Company Electric Revenue in Excess of Incremental Costs
	[PROTECTED DATA BEGINS]						
1							
2							
3							
4							
5							
6							
7							

PROTECTED DATA ENDS]

* Includes transformer with associated cable and fuse upgrades.□

** Excludes Taxes and City Fees.

RMS Company Actual 2019 Revenues and Costs
Premise [PROTECTED DATA BEGINS PROTECTED DATA ENDS]

Year	RMS Company kWh Usage				RMS Company Incremental Energy Cost Analysis				Total Incremental Energy Costs 9 = (1 * 5) + (2 * 6) + (3 * 7) + (4 * 8)
	Summer		Winter		Summer		Winter		
	1	2	3	4	5	6	7	8	
	On-Peak kWh	Off-Peak kWh	On-Peak kWh	Off-Peak kWh	Average Marginal On-Peak (\$ per kWh)	Average Marginal Off-Peak (\$ per kWh)	Average Marginal On-Peak (\$ per kWh)	Average Marginal Off-Peak (\$ per kWh)	
	[PROTECTED DATA BEGINS]								
1									
2									
3									
4									
5									
6									
7									

PROTECTED DATA ENDS]

Year	RMS Company Incremental Capacity Cost Analysis			Incremental Distribution Cost Analysis	Revenue Margin Contribution Analysis		
	10	11	12 = 10 * 11	13	14 = 13 + 12 + 9	15	16 = 15 - 14
	RMS Company Annual Peak Billing Demands (kW)	Incremental Capacity Cost per kW per Yr	Total Incremental Capacity Costs	Incremental Distribution Costs *	Total Incremental Energy, Capacity and Distribution Costs	RMS Company Electric Revenue After BIS Rider Discount **	RMS Company Electric Revenue in Excess of Incremental Costs
	[PROTECTED DATA BEGINS]						
1							
2							
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4							
5							
6							
7							

PROTECTED DATA ENDS]

* Includes transformer with associated cable and fuse upgrades.□

** Excludes Taxes and City Fees.

CERTIFICATE OF SERVICE

I, Jim Erickson, hereby certify that I have this day served copies of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota

xx electronic filing

DOCKET No. E002/GR-12-961

Dated this 26th day of November 2019

/s/

Jim Erickson
Regulatory Administrator

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