



414 Nicollet Mall
Minneapolis, Minnesota 55401

September 29, 2017

—Via Electronic Filing—

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

RE: PETITION
RENEWABLE DEVELOPMENT FUND ANNUAL REPORT, TRACKER ACCOUNT
TRUE-UP AND REQUEST NEW 2018 RIDER FACTOR
DOCKET NO. E002/M-17-xxxx

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits this Petition requesting approval of the Renewable Development Fund (RDF) Annual Report, Tracker Account True-Up and Request for new 2018 Rider Factor.

We have electronically filed this document with the Commission, and copies of the summary have been served on the parties on the attached service list.

Please contact me at bria.e.shea@xcelenergy.com or (612) 330-6064 if you have any questions regarding this filing.

Sincerely,

/s/

BRIA E. SHEA
DIRECTOR, REGULATORY & STRATEGIC ANALYSIS

Enclosure
Cc: Official Service List

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Nancy Lange
Dan Lipschultz
Matt Schuerger
Katie J. Sieben
John A. Tuma

Chair
Commissioner
Commissioner
Commissioner
Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF THE 2017 RENEWABLE
DEVELOPMENT FUND ANNUAL REPORT,
TRACKER ACCOUNT TRUE-UP, AND 2018
RATE RIDER FACTOR

DOCKET No. E002/M-17-____

PETITION

INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition requesting approval of the 2018 Renewable Development Fund (RDF) rate rider factor beginning January 1, 2018 and approval of the 2017 RDF annual report.

We are requesting Commission approval of a 2018 RDF rate rider factor of \$0.001522 per kWh to recover a total amount of \$45,552,934 , which will increase the average residential customer's bill by \$0.37 per month. A breakdown of these costs is shown in Table 1 below.

Table 1: 2018 Recoverable Costs

2018 RDF Rate Rider Recoverable Costs		
Legislative Mandates:		
Renewable Energy Production Incentives	\$619,819	
Minnesota Bonus Solar Rebate Program	\$2,246,317	
Solar Energy Incentive Program	\$2,215,979	
Minnesota Management and Budget Transfer	\$14,925,034	
Benson Legislative Payment	\$4,000,000	
Laurentian Legislative Payment	\$13,600,000	
Total Legislative Mandated Disbursements		\$37,607,149
Grant Disbursements		
Energy Production Grants	\$3,720,139	
Research and Development Grants	\$3,803,950	
Total Grant Disbursements		\$7,524,089
2017 True-up Expenses		\$393,687
Administration Costs		\$28,009
	Total 2018 Expenses	\$45,552,934

As shown in Table 2 below, RDF program costs have continued to increase since 2014. This is primarily due to the level of activity by RDF Cycle 4 projects as well as a new legislative mandate that requires funds be transferred to the Minnesota Office of Management and Budget (MMB). As discussed further in the below report, while the new legislation does not necessarily increase the amount of costs collected from customers over time, the MMB transfer advances the collection of funds that would not have been collected from customers until a later date under the previous legislation. In other words, the legislation requires that we now collect the funds from customers sooner than we would have previously.

Table 2: Annual RDF Rate Rider Comparisons (2014–2018)

2018 Rate Rider – Summary Table					
	2014 Rider	2015 Rider	2016 Rider	2017 Rider	2018 Rider
Forecasted Costs	\$20,233,602	\$18,158,462	\$23,009,335	\$23,617,465	\$45,159,247
True-Up Adjustment	\$2,456,773	(\$120,346)	\$4,669,609	\$7,626,400	\$393,687
Balance to Recover	\$22,690,375	\$18,038,037 ¹	\$27,678,944	\$31,243,865	\$45,552,934
Rate Factor	\$0.000750	\$0.000563	\$0.000902	\$0.001034	\$0.001522

Looking toward the future, while we expect RDF annual costs for recovery will fluctuate depending upon legislative programs and grant awards, during the next three years we anticipate an increase in the RDF rate factor as deferred grant payments are recovered on top of the transfer of funds to the MMB. However, by 2020 we anticipate the amount of recovered costs may levelize and more closely align with the annual obligation based upon the number of dry cask storage.

I. SUMMARY OF FILING

Pursuant to Minnesota Rule 7829.1300, subd. 1, a one-paragraph summary of the filing accompanies this Petition.

II. SERVICE ON OTHER PARTIES

Pursuant to Minn. Stat. §216.17, subd. 3, we have electronically filed this document with the Minnesota Public Utilities Commission which, in compliance with Minn. Rule 7829.1300, subd. 2, also constitutes service on the Division of Energy Resource and the Office of Attorney General-Residential Utilities Division. A summary of the filing has been served on all persons on Xcel Energy’s miscellaneous electronic service list.

III. GENERAL FILING INFORMATION

Pursuant to Minnesota Rule 7829.1300, subp. 3, the Company provides the following required information.

¹ The 2015 Balance to Recover reflects the Company’s original request. The final approved RDF Rate Factor of \$0.000563 included a revision for the Anaerobics disallowance.

A. Name, Address, and Telephone Number of Utility

Northern States Power Company doing business as:
Xcel Energy
401 Nicollet Mall, 7th Floor
Minneapolis, MN 55401
(612) 330-5500

B. Name, Address, and Telephone Number of Utility Attorney

Mara K. Ascherman
Senior Attorney
Xcel Energy
401 Nicollet Mall, 8th Floor
Minneapolis, MN 55401
(612) 215-4605

C. Date of Filing and Date Proposed Agreement Will Take Effect

This Petition is being filed September 29, 2017. Pursuant to Minn. Stat. §216B.10, we request that the new rates reflecting recovery of the costs associated with the RDF Program be effective January 1, 2018.

D. Statute Controlling Schedule for Processing the Filing

This Petition is filed pursuant to Minn. Stat. § 216B.10 and 216B.1645 Subd. 2. Minn. Stat. § 216B.10 explains accounting, reporting, and auditing requirements. Minn. Stat. § 216B.1645 Subd. 2 provides the mechanism for recovering RDF costs. Since there is no net change in general revenue requirement necessary, the requested rate treatment falls within the definition of a “miscellaneous filing” under Minn. Rule 7829.0100, subp.11. Comments on a miscellaneous filing are due within 30 days of its filing, with reply comments due 10 days thereafter.

E. Utility Employee Responsible for Filing

Bria E. Shea
Director, Regulatory & Strategic Analysis
Xcel Energy
401 Nicollet Mall, 7th Floor
Minneapolis, MN 55401
(612) 330-6064

IV. SERVICE LIST

Pursuant to Minn. R. 7829.0700, Xcel Energy requests that the following persons be placed on the Commission's official service list for this matter:

Mara Ascheman	Carl Cronin
Senior Attorney	Regulatory Administrator
Xcel Energy	Xcel Energy
401 Nicollet Mall, 8 th Floor	401 Nicollet Mall, 7 th Floor
Minneapolis, MN 55401	Minneapolis, MN 55401
mara.k.ascheman@xcelenergy.com	regulatory.records@xcelenergy.com

Any information requests in this proceeding should be submitted to Mr. Cronin at the Regulatory Records email address above.

V. DESCRIPTION AND PURPOSE OF FILING

The purpose of this filing is to seek approval for a 2018 RDF Rate Rider Factor of \$0.001522 per kWh to be applied to Minnesota customer energy usage beginning January 1, 2018. We are proposing to recover a total amount of \$45,552,934 consisting of 2018 RDF known and measurable expenses of \$45,159,247 and 2017 under-recovery of expenses of \$393,687.

This Petition complies with the Commission's Orders and includes the following information:

- Historic trends;
- Forecasted expenditures submitted for cost recovery in 2018;
- Forecasted expenditures not submitted for cost recovery in 2018;
- RDF tracker account information; and
- Fund Liability and unencumbered balance.

Actual expenditures that have been reported in previous filings have not changed within this report. Where applicable, forecasted expenditures from previous filings have been updated to reflect subsequent actual expenditures or a revised forecasted value, based upon more recent information.

In support of our proposed rate adjustment, we provide the following attachments:

- Attachment 1: 2016 Rate Rider Calculation
- Attachment 2: 2017 Rate Rider Calculation
- Attachment 3: 2018 Rate Rider Calculation

- Attachment 4: 2019 Rate Rider Calculation
- Attachments 5-9: Annual Compliance Report
- Attachment 10: RDF Projects Not Included in 2017 – 2018 Forecast
- Attachment 11: Cycle 4 Detail
- Attachment 12: Listing and Status of RDF Projects
- Attachment 13: RDF Administrative Costs
- Attachment 14: Report of Fund Liability and Unencumbered Balance
- Attachment 15: Comparison of Minnesota State Sales Allocator Based on RDF and Fuel Clause Adjustment (FCA) Sales
- Attachment 16: Comparison of Actual RDF Rider Revenues to Revenues Calculated using FCA Sales
- Attachment 17: Footnotes for All Schedules
- Attachment 18: Proposed updates to the RDF tariff in redline and clean format (Minnesota Electric Rate Book, MPUC No. 2, Sheet No. 5-143, revision 19)

A. Background

Pursuant to Minn. Stat. § 116C.779 and Commission precedent, the Company has an annual obligation to the RDF based on the number of casks stored at Prairie Island and Monticello. Pursuant to Minn. Stat. § 216B.1645 subdiv. 2, “expenses incurred by the utility over the duration of approved contract or useful life of the investment and expenditures made pursuant to section 116C.779 shall be recoverable from the ratepayers of the utility, to the extent they are not offset by utility revenues attributable to the contracts, investments, or expenditures.” Based on this statute, and the Commission precedent that followed,² the Company does not collect RDF costs from customers through the RDF Rate Rider until certain cost recovery criteria are met. Generally this criterion requires that costs need to have been incurred or meet a high level of certainty that they will be incurred to prevent harm to the ratepayers. Specifically, the Company recovers legislative mandates expected to be paid in the subsequent year, RDF grant project payments that meet certain known and measurable criteria, RDF administrative costs, and a true up of the previous years’

² *In the Matter of a Petition by Xcel Energy for Approval of the Company’s Renewable Development Fund Annual Report, Tracker Account True-up, and 2010 Rate Rider*, Docket No. E002/M-09-1145, ORDER APPROVING THE 2010 RENEWABLE DEVELOPMENT FUND RIDER FACTOR, REQUIRING COMPLIANCE FILINGS, AND REVISING CALCULATION OF FUTURE RIDER ADJUSTMENTS (June 2, 2010) (requiring Company and Department to create known and measurable criteria) ; *In the Matter of a Petition by Northern States Power d/b/a Xcel Energy for Approval of a 2011 Renewable Development Fund Rate Rider Factor*, Docket No. E002/M-10-1054, ORDER APPROVING 2011 RENEWABLE DEVELOPMENT FUND RATE RIDER (Mar. 17, 2011) (approving known and measurable criteria and approving recovery of forecasted legislative mandates).

expenses. The remainder of obligated funds are tracked as unencumbered or deferred payments but are not yet collected from customers.

In the 2017 legislative session, there were numerous changes to the manner in which the RDF is administered.³ First, the legislation replaced the renewable development fund with a “renewable development account” administered by the MMB. The 2017 legislative changes had two separate provisions for transferring money to the MMB—one for a transfer in 2017 and another provision for transfers in 2018 and beyond.

Minn. Stat. 116C.779 subdiv 1(b) addressed a potential transfer in 2017 and required the Company

transfer all funds in the renewable development account previously established under this subdivision and managed by the public utility to the renewable development account established in paragraph (a). Funds awarded to grantees in previous grant cycles that have not yet been expended and unencumbered funds required to be paid in calendar year 2017 under paragraphs (f) [City of Benson Initiative] and (g) [Laurentian Energy Authority Initiative] and sections 116C.7792 [Solar Energy Incentive Program] and 216C.41, are not subject to transfer.

As described above, the Company only collects costs that have already been incurred or will be incurred within the recovery period. As there were no “funds in the renewable development account” that were unexpended or unencumbered, the Company did not transfer monies to the RDA on July 1, 2017.⁴

However, beginning January 15, 2018, and continuing each January 15 thereafter the legislation requires the Company to transfer the annual obligation for the storage of dry casks located at the Prairie Island power plant and the Monticello nuclear power plant less the amount necessary to pay its obligations for legislative payments.⁵ The

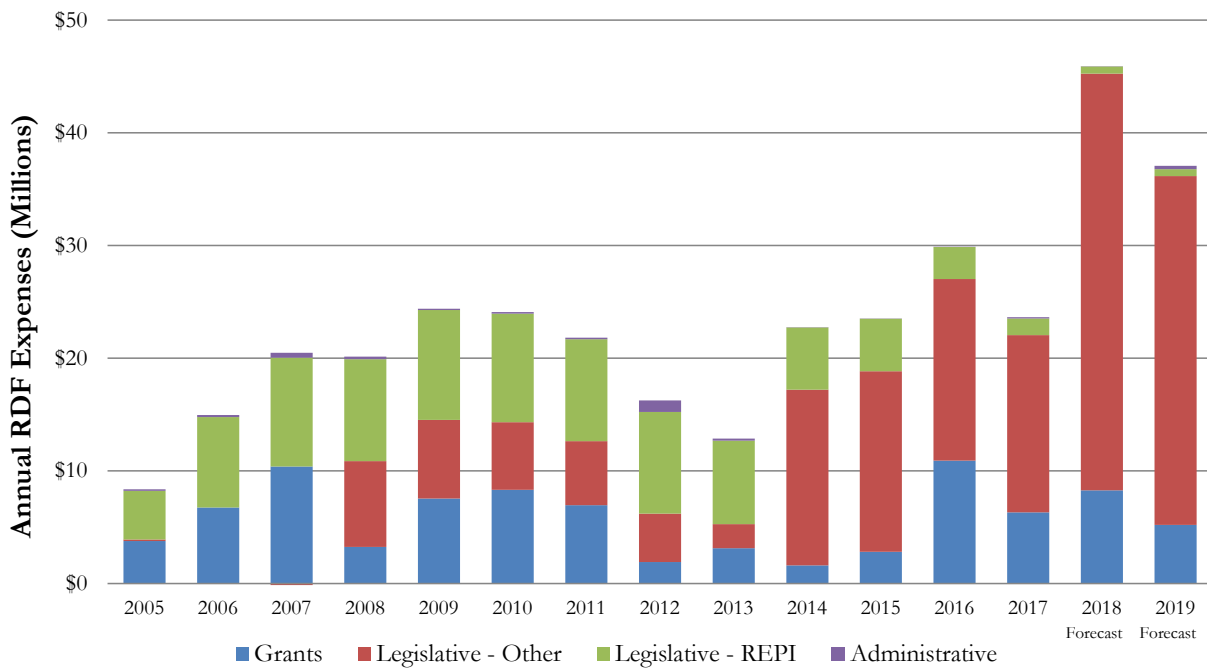
³ See 2017 Session Laws, Chapter 94, Article 10, Section 3.

⁴ The July 27, 2017 RDF Quarterly Status and Progress Report (Docket Nos. E002/M-00-1583, E002/M-07-675 and E002/M-12-1278) described actions by the Company as required by changes to the RDF Statute 116C.779. On June 30, 2017 the Company informed twenty grant recipients that if certain conditions are not achieved, any unspent RDF funds that they would have in their possession must be transferred to the RDA. The Company has received confirmation from all twenty grant recipients that all RDF disbursements received have been spent and there are no RDF funds to be transferred to the RDA. The July 27, 2017 report also included a redlined version of the 2017 Session Law, Chapter 94, Article 10, Section 3 text which illustrated all changes in the RDF Statute.

⁵ Pursuant to 2017 Session Law, Chapter 94, Article 10, Section 3, subdiv 1(c,d), “beginning January 15, 2018, and continuing each January 15 thereafter, [Xcel Energy] must transfer to the RDA \$500,000 each year for each dry cask containing spent fuel that is located at the Prairie Island power plant for each year the plant is in operation, and \$7,500,000 each year the plant is not in operation. . . beginning January 15, 2018, and continuing each January 15

amount withheld for 2018 and subsequent years does not include the amount necessary for RDF grant disbursements since this obligation will be funded by the unencumbered balance of the renewable development account and recovered from customers when the expenditures meet the known and measureable criteria. This transfer monetizes new unencumbered funds which are eligible to be recovered. Thus, starting in 2018 a payment to the MMB will generate additional pressure to increase RDF costs for recovery. In prior years recovered monies that will be part of a MMB transfer were either carried forward as an encumbrment or deferred grant payment. Figure 1 below demonstrates the overall RDF cost recovery trends.

Figure 1: Annual RDF Costs for Recovery



While RDF annual costs for recovery will fluctuate over time depending upon the cost of legislative programs and grant awards, during the next three years we anticipate an additional short-term increase in the RDF rate factor as deferred grant payments are recovered on top of the transfer of unencumbered funds to the MMB. We note that the projection for 2018 and 2019 in Figure 1 do not yet include a number of RDF grant projects that have yet to meet the known and measurable criteria (see Attachments 10 and 11). However, by 2020 we anticipate the amount of recovered costs will align more closely with the annual obligation based upon the number of dry cask storage.

thereafter, [Xcel Energy] must transfer to the RDA \$350,000 each year for each dry cask containing spent fuel that is located at the Monticello nuclear power plant for each year the plant is in operation, and \$5,250,000 each year the plant is not in operation.”

B. Expenditures Submitted for Cost Recovery

We are using the same set of known and measurable criteria in this filing for the calculation of the proposed 2018 RDF rate rider factor as those approved by the Commission in our 2010 RDF rate rider filing.⁶

This section discusses the following four categories of expenditures for which we request cost recovery in 2018:

- (1) Payments made to fulfill Minnesota legislative mandates,
- (2) Payments made to RDF grant projects,
- (3) RDF administrative expenses, and
- (4) True up expenses for costs under-recovered in our 2017 RDF rate rider.

1. Minnesota Legislative Mandates

Our proposed 2018 RDF Rate Rider Factor includes \$38,607,149 for seven mandated legislative initiatives that are funded through RDF disbursements as described below. The legislative initiatives consist of:

- \$619,819 for Renewable Energy Production Incentive (REPI) payments
- \$2,246,317 for the Minnesota Bonus Solar Rebate Program
- \$2,215,979 for the Solar*Rewards Program
- \$13,600,000 for the Laurentian Initiative
- \$4,000,000 for the City of Benson Initiative
- \$1,000,000 for the DEED 21st Century Fund (paid in 2017)
- \$14,925,034 transfer to the MMB

We provide further detail on each of these RDF legislative initiatives below.

a. Renewable Energy Production Incentives (REPI)

The 2018 RDF tracker account includes payments in the amount of \$619,819 for the state REPI program, a program funded in full through the RDF. This amount is based on a forecast provided by the Minnesota Department of Commerce and includes \$619,819 for hydro projects.

⁶ March 17, 2011 Order in Docket No. E002/M-10-1054

Minn. Stat. §116C.779, Subd. 2. mandates that annual REPI payments up to \$10.9 million must be made available from the RDF account for qualifying projects, including up to \$9.4 million annually for electricity generated by wind energy conversion systems and up to \$1.5 million annually for on-farm biogas recovery facilities and hydroelectric facilities. The REPI program provides an incentive payment of 1.0 cents per kWh for wind projects through December 31, 2018, biogas projects through December 31, 2015, and hydro projects through December 31, 2021. For 2018 all REPI payments for wind and biogas have been completed and therefore the forecasted REPI amount relates only to hydro. Xcel Energy is in compliance with the REPI statute since the annual amounts to be included in the 2018 RDF rate rider for cost recovery are the aggregate incentive payment for qualifying hydroelectric facilities as reported or projected by the Minnesota Department of Commerce, who administers this incentive program.

b. Minnesota Bonus Solar Rebate Program

In this filing, we are proposing to recover \$2,246,317 in Minnesota Bonus Solar Rebate Program payments forecasted to be made through December 31, 2018, a program funded in full through the RDF. These forecasted payments are legislatively mandated. Specifically, the forecasted amount includes solar PV installations that have been completed and energized or have received a pre-approval acknowledgment letter.

Minn. Stat. §116C.7791, Subd. 5. mandated solar rebates, up to \$5.00 per watt of installed capacity for systems up to 40 kW, to be available for installations that use solar modules either manufactured or assembled in Minnesota. The statute appropriated \$21 million from the RDF at the rate of \$2 million in state fiscal year 2011, \$4 million in state fiscal year 2012, and \$5 million per year in state fiscal years 2013 through 2015. The Minnesota Bonus rebates are paid to each qualifying customer in five consecutive annual installments. The final installment is estimated to be paid in 2019. The Minnesota Bonus Solar Rebate Program was offered from 2011–2014. As of March 28, 2014, this program has been fully subscribed to obligate the statutory appropriation of \$21 million. Since full subscription, no new applicants have been accepted.

Applications submitted prior to March 28, 2014, have been processed and honored; therefore, current disbursements from the RDF are made through existing contracts. Xcel Energy is in compliance with the statute since the annual amounts included in the RDF rate rider for cost recovery are the aggregate Minnesota Bonus rebates for qualifying solar facilities as reported or projected by the Company, as the administrator of this rebate program.

*c. Solar Energy Incentive Program (Solar*Rewards)*

In this filing, we are proposing to recover \$2,215,979 in Solar Energy Incentive Program incentive payments forecasted to be made through December 31, 2018, a program funded in full through the RDF. These forecasted payments are legislatively mandated. Specifically, the forecasted amounts include solar PV installations that have been completed, energized and are producing power.

Minnesota's Solar Energy Standards established by Minn. Stat. §116C.7792 directed the Company to establish a solar energy incentive program to be funded in full by RDF funds. The program is to provide solar energy production incentives for solar energy systems of no more than a total nameplate capacity of 20 kW direct current. The statute specifies that the program shall be operated for five consecutive calendar years commencing in 2014. For each of the five years, \$5,000,000 shall be allocated from the RDF to this program. The production incentive is to be paid over the course of 10 years, commencing with the system operation. In 2017, the Minnesota Legislature approved a four year extension and appropriated an additional \$35,000,000 to the Solar Energy Incentive Program also known as Solar*Rewards. The terms of the program remain the same with the production incentive to be paid over the course of 10 years, commencing with the system operation.

In 2013, Xcel Energy filed a program proposal with the Department of Commerce seeking approval of the Company's Solar*Rewards program to provide solar energy production incentives for qualifying solar energy systems.⁷ The Solar*Rewards program launched on August 4, 2014. Xcel Energy is in compliance with the statute since the annual amounts included in the RDF rate rider for cost recovery are the aggregate Solar*Rewards incentive payments for qualifying solar facilities as reported or projected by the Company, as the administrator of this incentive program.

d. Laurentian Energy Authority Initiative

In 2017, the Minnesota Legislature approved an appropriation of \$34,000,000 over a five year period (fiscal years 2018-2022) from the RDF account to the Laurentian Energy Authority, LLC (LEA) to assist the transition required by the termination of a PPA, if the arrangement is approved by the Commission.

The LEA Initiative established by Minn. Stat. 116C.779 subdiv. 1(g) explains that if the Commission "approves a new or amended power purchase agreement, or the

⁷ Docket No. E,G002/CIP-13-1015

termination of a purchase power agreement . . . with an entity owned or controlled, directly or indirectly, but two municipal utilities located north of Constitutional Route No. 8, that was previously used to meet the biomass mandate” the Company shall enter into a grant contract for the above referenced amount.

In this filing, we are proposing to recover \$13,600,000 (for two \$6,800,000 payments between now and 2019), contingent upon Commission approval of our request to terminate the LEA PPA.⁸ We note that if the Commission does not approve the LEA PPA termination, we would still be required to collect these funds from customers and then turn them over the MMB (as opposed to LEA).

e. City of Benson Initiative

In 2017, the Minnesota Legislature approved an appropriation of \$20,000,000 over a four year period (fiscal years 2018-2021) from the RDF account to the City of Benson for purposes of economic development.

The City of Benson Initiative established by Minn. Stat. 116C.779 subdiv. 1(f) explains that if the Commission “approves a new or amended power purchase agreement, the termination of a power purchase agreement, or the purchase and closure of a facility . . . , with an entity that uses poultry litter to generate electricity” the Company shall provide grants to the city of the purposes of economic development.

In this filing, we are proposing to recover \$4,000,000 for a payment forecasted to be made within 2018 contingent upon Commission approval of our request to terminate the Benson Plant PPA and close the plant.⁹ We note that if the Commission does not approve the Benson Plant PPA termination and closure, we would still be required to collect these funds from customers and then turn them over the MMB (as opposed to the City of Benson).

f. DEED 21st Century Minerals Fund

In 2017, the Minnesota Legislature approved an appropriation of \$1,000,000 during fiscal year 2018 from the RDF account to the DEED 21st Century Minerals Fund, an initiative funded in full through the RDF. In this filing, we are proposing to recover

⁸ Docket No. E002/M-17-551

⁹ Docket No. E002/M-17-530

\$1,000,000 for a payment forecasted to be made within 2017 and included in the 2017 true-up. This forecasted payment is legislatively mandated

This appropriation to the DEED 21st Century Minerals Fund is required by 2017 Session Laws, Chapter 94, Article 1, Section 2, subdiv. 3(jj).

g. MMB Transfer of Unencumbered Funds

In 2017, the Minnesota Legislature approved that beginning January 15, 2018 any unspent funds are to be transferred to the RDA. In this filing, we are proposing to recover \$14,925,034 for a payment forecasted to be made within 2018, an initiative funded in full through the RDF. This forecasted payment is legislatively mandated.

As described in the background section above, the 2017 legislative changes to Minn. Stat. § 116C.779, subdiv. 1(b)-(d) require the Company to transfer to “the renewable development account” managed by MMB the annual obligation for the storage of dry casks located at the Prairie Island power plant and the Monticello nuclear power plant less the amount necessary to pay its obligations for legislative payments. In 2018, our obligation for the storage of dry casks located at Prairie Island and Monticello is \$31,500,000. If one were to subtract the amount of the 2018 legislative mandates described above, from the Company’s total obligation, it equals the \$14,925,034 the Company must transfer to the MMB pursuant to the 2017 legislative changes.

2. RDF Grant Project Payments

The total of RDF grant project expenses eligible for recovery in 2018 is \$8,273,691 which includes \$7,524,089 for recovery as part of our 2018 known and measurable costs and \$749,602 for recovery as part of our interchange agreement with the State of Wisconsin. These payments have been itemized on Attachment 9. To be included for cost recovery, RDF grant project expenses need to meet all of the following known and measurable criteria established pursuant to the Commission’s March 17, 2011 Order. To meet these criteria, projects must:

- Have an executed RDF grant contract approved by the Commission;
- Have an executed power purchase agreement (PPA) reviewed by the Office of Energy Security (OES) and approved by the Commission;
- Have secured any necessary co-financing for the project;
- Have secured any necessary site lease; and
- Have initiated actual construction activity.

Research and development projects must meet all of the following criteria to be included as known and measurable costs:

- Have an executed RDF grant contract approved by the Commission;
- Have completed at least twelve months of project activity;
- Have completed all milestone requirements in a timely manner during at least the past 12 months consistent with the RDF grant contract;
- The project is currently within budget (plus or minus 10 percent);
- Have no outstanding technical issues that need to be resolved in order to proceed with the project in a timely manner; and
- Have demonstrated project management stability.

3. RDF Administrative Expenses

The total of RDF base level administrative expenses eligible for recovery in 2018 is \$30,300, which includes \$28,009 for recovery as part of 2018 known and measurable costs and \$2,291 for recovery as part of our interchange agreement with NSP-Wisconsin. The base level administrative expenses cover an RDF grant administrator, Clean Energy States Alliance (CESA) membership dues, and RDA advisory group miscellaneous meeting expenses.

4. 2017 True-up Expenses

As authorized by the 2011 Order, we have included \$393,687 of RDF project payments not recovered in 2017 as part of the 2018 RDF rate rider factor. These true-up expenses were calculated as follows:

Revenue	
<u>Electric Sales</u>	<u>\$30,702,375</u>
Total:	30,702,375
Expenses	
2016 True-Up	\$7,578,800
Grant Disbursements	6,192,237
Administration	110,454
<u>Legislative Mandates</u>	<u>17,214,571</u>
Total:	31,096,062
 2017 True Up	 \$393,687

C. Expenditures Not Submitted for Cost Recovery

This section discusses costs that we have not included in our 2018 cost recovery request. Though many of these costs could be incurred in 2018 and thus may contribute to our under recovery of RDF expenses, we will true up any of these under-recovered costs in our 2019 RDF Rate Rider request, in accordance with the Commission's March 17 Order and our previous filings.

1. Legislative Mandates

a. Made in Minnesota Solar Energy Production Incentive Account

In this filing, we not proposing to recover any costs for payments to Made in Minnesota¹⁰ Solar Energy Production Incentive Account, a program funded in part through the RDF. 2017 Legislation eliminated Minn. Stat. §216C.412, Subd. 1 which mandates the establishment of a Made in Minnesota Solar Energy Production Incentive Account.

2. RDF Grant Project Payments

a. Approved Grant Awards (Cycle 1, Cycle 3, Cycle 4)

There are \$4,474,736 of forecasted project payments that do not meet the known and measurable criteria and are therefore not included in our 2018 cost recovery request. These payments have been itemized on Attachment 10. If these costs are paid in 2018, the potential for under recovery of RDF expenses is increased.

The \$4,474,736 of forecasted payments includes one Cycle 1 RDF energy production project, two Cycle 4 RDF energy production projects, one Cycle 3 RDF research project, and one Cycle 4 RDF research projects. The three energy production projects are:

- Crown Hydro (AH-01)
- Minnesota Renewable Energy Society (EP4-15)
- Bergey Windpower (EP4-24)

¹⁰ There were four businesses producing solar panels in Minnesota that qualify for the Minnesota Bonus solar rebates: Heliene Solar Energy in St. Paul, Minnesota; itek Energy in Minneapolis, Minnesota; Silicon Energy in Mountain Iron, Minnesota; and tenKsolar in Bloomington, Minnesota. These are the same business that have production facilities in Minnesota which were identified in our last RDF Annual Report.

The two research projects are:

- Coaltec (RD3-77)
- City of Red Wing (RD4-8)

The 2018 RDF forecast does not include anticipated payments for four Cycle 4 projects¹¹ that at the time this filing was prepared, no RDF grant contract had been executed and therefore did not meet the known and measureable criteria. It is possible these four RDF grant contracts will be executed in 2018 and some grant payments will be disbursed in 2018.

We will request cost recovery for any disbursements made to these RDF projects during the next twelve months in our October 1, 2019 RDF Rate Rider filing. See Attachments 7 - 9 for details regarding these forecasted payments to Cycle 1, Cycle 3 and Cycle 4 projects in 2017 and 2018. See Attachment 11 for details regarding forecasted payments to Cycle 4 awards that have not executed grant contracts but may begin project activity in 2018.

D. RDF Tracker Account Information

The RDF tracker account is the mechanism used for RDF expenses to be recovered from Minnesota ratepayers. Costs are charged to the account as they are incurred, and the revenue from the current RDF rate rider is reflected in the account as it is collected. As noted above, we record the costs included in the tracker account in a manner consistent with the cost allocation methods approved by the Commission. RDF activity is assigned to FERC (Federal Energy Regulatory Commission) Account 182.3, Other Regulatory Assets, reflecting both the associated costs and revenues. The monthly revenue collected through the RDF rate adjustment is also recorded in FERC Account 407.3, Regulatory Debits.

Attachments 1 and 2 provide RDF actual expenditures and receipts and the true-up report for calendar years 2016 and 2017, respectively, including actual costs and revenues through August 2017.

¹¹ March 11, 2014 ORDER, Docket No. E002/M-12-1278 (*Order Approving RDF Grant Recommendations, Establishing Funding Procedures, and Requiring Compliance Filings*). Awards were approved for twenty energy production projects, totaling \$26,559,723, six research and development projects, totaling \$5,449,774, and three higher education research programs, totaling \$10,657,215. In addition six projects were approved as reserves, totaling \$10,667,696, to replace an approved project if a grant contract cannot be developed.

1. 2018–2019 RDF Expenditures and RDF Rider Factor

After adjusting for the 2017 under-recovery of \$393,687, in 2018 we propose to recover RDF expenditures of \$45,552,934, as detailed on Attachment 3. In order to recover 2018 RDF expenses, we propose a 2018 RDF Rate Rider Factor of \$0.001522 per kWh. In accordance with the RDF Rider tariff, we will collect these costs through an adjustment applied to customers' energy usage.

We estimate, for informational purposes only, that 2019 RDF expenditures will be \$32,728,084, as detailed on Attachment 4. We are also estimating, for informational purposes only, that the 2019 RDF Rate Rider Factor will be \$0.001093 per kWh. However, this estimate will likely increase since it at this time it does not include payments that may be made to projects not meeting the known and measurable criteria and Cycle 4 projects that have not yet been approved for funding. The inclusion of these additional costs will effectively increase the 2019 RDF Rate Rider Factor.

2. RDF Off-Setting Revenue

Minn. Stat. §216B.1645, Subd. 2a. specifies that RDF expenses incurred by the Company pursuant to Minn. Stat. §116C.779 shall be recoverable from ratepayers to the extent they are not off-set by Company revenues attributable to RDF contracts, investments or expenditures.

To date, we have not received any off-setting revenues. A small number of RDF grantees have entered into PPAs with the Company for energy production projects, but these PPAs are for the sale of project energy to the Company. We have not received any revenue in conjunction with such PPAs. Nevertheless, for the sake of financial transparency, we have included a RDF tracker account line item documenting full statutory compliance. Similarly, the executed Cycle 4 research and development contracts and higher education block grant contracts contemplate that grantees will share varying percentages of revenue royalties with the Company, which will then be credited to our customers. To date, we have not received any royalty revenue from Cycle 4 grant contracts.

3. Administrative Cost Allocation

In the Commission's December 12, 2014 Order approving the 2015 Rate Rider Factor, the Commission:

Required Xcel in its next RDF annual tracker report to provide: (1) the level of the administrative cost allocation to be used in determining Minnesota jurisdictional RDF expenses, and (2) a narrative and documentation in support of the proposed level for the administrative cost allocator.

Consistent with this Order, the Company provided the requested information. In its initial comments, the Department noted that the Company revised the administrative cost allocator to allocate administrative costs based on the ratio of grant awards by project type to the total Cycle 4 grant awards. The Department concluded that the Company’s proposal is reasonable since the Company is now operating under the fourth RDF cycle.

For this filing, 47.36 percent of RDF Program administrative costs have been assigned to energy production projects and the remaining 52.64 percent have been assigned to research and development projects (and higher education block grants). This allocation is based on the same methodology used in our 2016 and 2017 RDF rate rider petitions. i.e. the ratio of grant awards by project type to the total Cycle 4 grant awards. A portion of the administrative costs assigned to energy production projects is allocated to NSP-Wisconsin through the Interchange Agreement. Table 3 below provides the total Cycle 4 Grant Awards by energy production and research and development, and the ratio of each type to the total.

Table 3: Calculation of the Administrative Cost Allocation

	Amount	% of Total
Total Cycle 4 EP Grants	\$18,738,922	47.36%
Total Cycle 4 R&D/High Ed Grants	\$20,826,026	52.64%
Total Cycle 4 Grant Awards	\$39,564,948	100.00%

The Cycle 4 grant payments used to create the administration cost allocator reflect all Cycle 4 grants awarded, including those approved but not included in the calculation of the 2018 RDF Rate Rider Factor. The Company will review this administration cost allocator with each RDF rate rider petition to ensure reasonableness.

In its December 7, 2007 Order, the Commission placed a cap on administrative expenses of no more than five percent of the RDF “total annual allocation.” Further, in a February 17, 2012 Order, the Commission approved a proposal by the Company and supported by the Department of Commerce that clarifies application of the five percent administrative cap. As specified in that Order, the Company shall provide an Actual and Forecasted Calculation of administrative costs and an Actual Only Calculation of such costs. Specifically, the Commission’s Order states:

1. *Actual and Forecasted Calculation.* For informational purposes, the administrative cap percentage will be calculated based on actual and forecasted administrative expenses and grant project disbursements from 2004 to, and including, the second forecasted year in each new annual RDF rate rider filing. Total administrative costs will be divided by total grant project disbursements to compute the overall administrative cap percentage.

2. *Actual Only Calculation.* For compliance purposes, the same computation as described above will be applied but only for actual administrative expenses and grant project disbursements from 2004 to, and including, the most recent year in which actual costs have been reported.

Attachment 13 demonstrates that our Actual and Forecasted administrative costs as well as our Actual Only Calculation of administrative costs are in compliance with the December 7, 2012 Order and February 17, 2012 Order regarding administrative expenses.

E. Minnesota State Sales Monthly Allocator

The Minnesota State Sales Monthly Allocator is the ratio of Total NSPM Electric Sales to Total System Electric Sales. Actual monthly sales are used in the calculation of the allocator for January 2016–August 2017, and forecast monthly sales are used for the calculation of the allocator for September 2017–December 2018. The source data used to calculate the allocators is the actual MWh sales data and forecast MWh sales data that are entered into the rider calculation. The 2018 RDF Rider calculation is included as Attachment 3.

The Minnesota State sales allocator used in the 2018 RDF Rider filing is different from the actual Minnesota State sales allocator used in the Company's FCA filings. The RDF allocator is the ratio of Total NSPM Electric Sales (which includes the States of Minnesota, North Dakota, and South Dakota) to Total System (which includes the States of Minnesota, North Dakota, South Dakota, Wisconsin and Michigan) Electric sales. The FCA allocator is the ratio of State of Minnesota Electric sales to Total System Electric sales, both net of sales to Windsource customers. Windsource customers are exempt from the FCA, and are thus not included in the allocation ratio. Please see Attachment 15 for a comparison of the Minnesota State Sales Allocator for RDF and FCA sales.

Using Total NSPM Electric sales to allocate RDF costs to Minnesota State was supported in the Commission's Final Order on the Company's 2011 RDF Rider filing (Docket No. E002/M-10-1054), and in the Department of Commerce December 15,

2011 Comments on the Company’s 2012 RDF Rider filing (Docket No. E002/M-11-1007).

F. Fund Liability and Unencumbered Balance

In the Commission’s December 21, 2012 Order in Docket E002/M-12-1062, the Commission ordered the Company to provide an updated version of Table A as required by Point 8.A of the March 17, 2011 Order in Docket No. E002/M-10-1054. The required information is provided in Table 6 below. As of December 31, 2016 Xcel Energy has incurred a total liability of \$301,350,000 for funding the RDF. A total of \$257,598,306 of aggregated payments has been approved and obligated. This includes payments for both legislative mandated programs and RDF grant awards approved by the Commission for Cycles 1, 2, 3 and 4. Xcel Energy has recovered a total of \$260,906,922 from electric ratepayers for RDF expenses. As of December 31, 2016 the RDF had an unencumbered cumulative balance of \$13,464,874.

Table 4: RDF Liabilities and Obligations

RDF Program Summary	
Category	Amount as of December 31, 2016
The total liability the Company has incurred under Minn. Stat. §116.799	\$301,350,000
The Company’s aggregate payments for approved renewable development projects and legislative mandates	\$257,598,306
The total amount recovered through the fuel clause adjustment mechanism and RDF rate rider factor for RDF costs	\$12,202,440 (Fuel Clause) \$248,704,482 (RDF Rate Rider) \$260,906,922 (Total Recovered)
The unencumbered cumulative balance remaining in the fund	\$13,464,874

G. Solar Energy Standard (SES) Exemption

The SES (Minn. Stat. § 216B.1691, subd. 2f (d)) provides an exemption from the costs of satisfying the solar standard to customers that are an iron mining extraction and processing facility, a paper mill, wood products manufacturer, sawmill, or oriented strand board manufacturer. The RDF program provides funding for various solar programs and projects¹² that are used by the Company to satisfy the solar standard. Consequently, customers who have requested SES cost exemption and

¹² Such programs include Solar*Rewards, Made In Minnesota, and Community Solar Gardens. Solar projects include Slayton Solar, St. John’s Solar, and School Sisters of Notre Dame Solar.

been approved will be excluded from or credited these costs in the RDF rate adjustment. Currently, two customers have received approval for exemption from the SES costs in the RDF rider effective June 1, 2017. The process for calculating and excluding the SES costs in the RDF rider for customers approved for SES cost exemption has not been finalized at this time, but will be retroactive to June 1, 2017.¹³

H. Customer Notifications and Billing

The RDF rate rider factor is not shown as a separate calculation on customers' bills, but is contained within the Resource Adjustment line on the customers' bill. We propose the following notice on customers' bills issued on the first month the new RDF rate adjustment takes effect.

Renewable energy development costs are included as part of the Resource Adjustment line on your bill. Beginning this month, the renewable energy development costs have increased from \$0.001034 per kWh to \$0.001522 per kWh. Visit xcelenergy.com/rdf to find more on Xcel Energy's renewable energy development programs.

This proposed notice language is identical to that used to communicate prior year RDF rate rider factors. We will work with the Commission's Consumer Affairs Office to finalize the wording of the customer notice.

VI. EFFECT OF CHANGE UPON XCEL ENERGY REVENUE

We expect the updated RDF rate adjustment to increase Xcel Energy's 2018 revenues by \$14,850,559 compared to 2017. This assumes 2017 revenues will total \$30,702,375 and 2018 revenues will total \$45,552,934. These revenues will be offset by the costs identified in this petition resulting in no net change to Company revenues. Any over-recovery or under-recovery of 2018 actual costs will be identified in the RDF tracker account and reflected in the 2019 RDF rate adjustment.

CONCLUSION

We respectfully request approval from the Commission to change the RDF Rate Rider Factor from \$0.001034 per kWh to \$0.001522 per kWh effective January 1, 2018. We will continue to apply the RDF Rate Rider Factor to all Minnesota

¹³ Docket No. E002/M-17-425

customers who are subject to service under the Fuel Clause Rider and who take service under the Windsource Program rider.

Finally, pursuant to the Commission's June 11, 2004 and March 17, 2011 Orders, we request Commission approval of the RDF compliance report submitted with this filing as Attachments 5-9.

Dated: September 29, 2017

Northern States Power Company

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

Nancy Lange	Chair
Dan Lipschultz	Commissioner
Matt Schuerger	Commissioner
Katie J. Sieben	Commissioner
John Tuma	Commissioner

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
FOR APPROVAL OF THE 2017 RENEWABLE
DEVELOPMENT FUND ANNUAL REPORT,
TRACKER ACCOUNT TRUE-UP, AND 2018
RATE RIDER FACTOR

DOCKET NO. E002/M-17-_____

PETITION

SUMMARY OF FILING

Please take notice that on September 29, 2017 Northern States Power Company, doing business as Xcel Energy, filed with the Minnesota Public Utilities Commission a Petition requesting approval of the 2018 Renewable Development Fund (RDF) rate rider factor beginning January 1, 2018 and approval of the 2017 RDF annual report.

**2018 RDF Rate Rider Petition
Attachment List**

Attachment	Description
Attachment 1	2016 RDF Rider Calculation
Attachment 2	2017 RDF Rider Calculation
Attachment 3	2018 RDF Rider Calculation
Attachment 4	2019 RDF Rider Calculation
Attachment 5	Annual Compliance Report-Forecast
Attachment 6	Annual Compliance Report-Cycle 1 Projects Actuals through August 2017, Forecast through December 2019
Attachment 7	Annual Compliance Report-Cycle 2 Projects Actuals through August 2017, Forecast through December 2019
Attachment 8	Annual Compliance Report-Cycle 3 Projects Actuals through August 2017, Forecast through December 2019
Attachment 9	Annual Compliance Report-Cycle 4 Projects Actuals through August 2017, Forecast through December 2019
Attachment 10	RDF Previous Cycle Projects Not Included in 2017-2018 Forecast
Attachment 11	Cycle 4 Detail Regarding Contract Development
Attachment 12	Listing and Status of RDF Projects
Attachment 13	RDF Administrative Costs
Attachment 14	Report of Fund Liability and Unencumbered Balance
Attachment 15	Comparison of MN State Sales Allocator Based on RDF and FCA Sales
Attachment 16	Comparison of Actual RDF Rate Rider Revenues to Revenues Calculated using FCA Sales
Attachment 17	Footnotes for All Schedules
Attachment 18	Proposed Tariff Sheet

RENEWABLE DEVELOPMENT FUND
2016 Rider Calculation
State of Minnesota Recovery

2016 RDF Expenses

	Actual Jan 2016	Actual Feb 2016	Actual Mar 2016	Actual Apr 2016	Actual May 2016	Actual Jun 2016	Actual Jul 2016	Actual Aug 2016	Actual Sep 2016	Actual Oct 2016	Actual Nov 2016	Actual Dec 2016	Total
Category A Projects - EP	\$ -	\$ -	\$ -	\$ -	\$ 958,369	\$ 2,467,107	\$ -	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -	\$ 5,425,476
Category B Projects - R&D and HE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 719,072	\$ 184,805	\$ -	\$ 4,400,798	\$ -	\$ 187,174	\$ 5,491,849
Other Legis Mandates	\$ 117,445	\$ 75,577	\$ 12,657,689	\$ 317,250	\$ 172,290	\$ 91,203	\$ 553,415	\$ 630,941	\$ 448,675	\$ 396,906	\$ 254,160	\$ 394,966	\$ 16,110,516
REPI	\$ 260,510	\$ 179,730	\$ 284,069	\$ 1,173,869	\$ 151,795	\$ 168,467	\$ 93,219	\$ 149,818	\$ 67,289	\$ 16,630	\$ 246,332	\$ 39,494	\$ 2,831,220
Total Project Costs	\$ 377,954	\$ 255,306	\$ 12,941,758	\$ 1,491,119	\$ 1,282,454	\$ 2,726,776	\$ 1,365,706	\$ 965,564	\$ 515,964	\$ 6,814,334	\$ 500,492	\$ 621,634	\$ 29,859,061
Total Admin Costs	\$ 233	\$ 10	\$ -	\$ 71	\$ -	\$ 9	\$ 5,008	\$ 16,118	\$ -	\$ 2,325	\$ 82	\$ 1,488	\$ 25,343
Total RDF Expense	\$ 378,187	\$ 255,316	\$ 12,941,758	\$ 1,491,190	\$ 1,282,454	\$ 2,726,785	\$ 1,370,714	\$ 981,682	\$ 515,964	\$ 6,816,659	\$ 500,573	\$ 623,122	\$ 29,884,404

MN State Sales Allocator	83.3831%	83.1836%	83.2213%	83.3226%	84.0138%	84.5996%	84.7866%	84.7385%	84.5176%	83.6339%	83.4061%	83.5283%	
MN Administrative Cost Allocator	91.8850%	91.7876%	91.8060%	91.8555%	92.1930%	92.4791%	92.5704%	92.5470%	92.6672%	92.2486%	92.1407%	92.1986%	

2016 RDF Rider Recovery

Category A Projects - EP	\$ -	\$ -	\$ -	\$ -	\$ 805,162	\$ 2,087,163	\$ -	\$ -	\$ -	\$ 1,672,678	\$ -	\$ -	\$ 4,565,003
Category B Projects - R&D and HE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 719,072	\$ 184,805	\$ -	\$ 4,400,798	\$ -	\$ 187,174	\$ 5,491,849
Other Legis Mandates	\$ 117,445	\$ 75,577	\$ 12,657,689	\$ 317,250	\$ 172,290	\$ 91,203	\$ 553,415	\$ 630,941	\$ 448,675	\$ 396,906	\$ 254,160	\$ 394,966	\$ 16,110,516
REPI	\$ 260,510	\$ 179,730	\$ 284,069	\$ 1,173,869	\$ 151,795	\$ 168,467	\$ 93,219	\$ 149,818	\$ 67,289	\$ 16,630	\$ 246,332	\$ 39,494	\$ 2,831,220
Administrative Costs (1)	\$ 214	\$ 9	\$ -	\$ 65	\$ -	\$ 8	\$ 4,636	\$ 14,917	\$ -	\$ 2,145	\$ 75	\$ 1,372	\$ 23,441
Interdepartmental Revenue Refund	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (3,243)	\$ (38,917)
Expense Recovery	\$ 374,925	\$ 252,072	\$ 12,938,515	\$ 1,487,941	\$ 1,126,004	\$ 2,343,597	\$ 1,367,099	\$ 977,237	\$ 512,721	\$ 6,485,914	\$ 497,324	\$ 619,763	\$ 28,983,112

Total 2016 RDF Expense Recovery	\$ 28,983,112
2015 True-up Amount to be Included in the Calculation of the 2016 RDF Rider	\$ 5,279,012
Total Amount to be Recovered Through the 2016 Rider	\$ 34,262,124

2016 RDF Rider Calculation

	Actual Jan 2016	Actual Feb 2016	Actual Mar 2016	Actual Apr 2016	Actual May 2016	Actual Jun 2016	Actual Jul 2016	Actual Aug 2016	Actual Sep 2016	Actual Oct 2016	Actual Nov 2016	Actual Dec 2016	Total
2016 MN Calendar Month kWh Sales	2,567,047,939	2,338,417,523	2,372,681,163	2,162,456,039	2,378,548,446	2,662,416,984	3,013,277,598	3,039,932,590	2,527,117,222	2,401,419,571	2,258,690,837	2,574,683,357	30,296,689,268

2016 Minnesota RDF Rider Factor **\$ 0.000902**

2016 RDF Tracker Calculation

	Actual Jan 2016	Actual Feb 2016	Actual Mar 2016	Actual Apr 2016	Actual May 2016	Actual Jun 2016	Actual Jul 2016	Actual Aug 2016	Actual Sep 2016	Actual Oct 2016	Actual Nov 2016	Actual Dec 2016	Total
Previous Year True-Up	\$ 5,279,012												\$ 5,279,012
Actual Expenses	\$ 374,925	\$ 252,072	\$ 12,938,515	\$ 1,487,941	\$ 1,126,004	\$ 2,343,597	\$ 1,367,099	\$ 977,237	\$ 512,721	\$ 6,485,914	\$ 497,324	\$ 619,763	\$ 28,983,112
Actual Retail Rider Revenues	\$ 1,782,805	\$ 2,188,972	\$ 2,283,198	\$ 1,938,612	\$ 2,051,232	\$ 2,307,596	\$ 2,481,639	\$ 2,869,958	\$ 2,486,841	\$ 2,122,572	\$ 1,960,894	\$ 2,209,007	\$ 26,683,324
Grant Project Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance	\$ 3,871,132	\$ (1,936,900)	\$ 10,655,317	\$ (450,671)	\$ (925,228)	\$ 36,002	\$ (1,114,540)	\$ (1,892,720)	\$ (1,974,119)	\$ 4,363,342	\$ (1,463,571)	\$ (1,589,244)	\$ 7,578,800

2016 RDF Rider True-Up **\$ 7,578,800**

See Attachment 17 for an explanation of all footnotes.

RENEWABLE DEVELOPMENT FUND
2017 Rider Calculation
State of Minnesota Recovery

2017 RDF Expenses

	Actual Jan 2017	Actual Feb 2017	Actual Mar 2017	Actual Apr 2017	Actual May 2017	Actual Jun 2017	Actual Jul 2017	Actual Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Total
Category A Projects - EP	\$ 55,575	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 525,162	\$ 55,575	\$ 58,351	\$ -	\$ -	694,663
Category B Projects - R&D and HE	\$ 78,088	\$ -	\$ -	\$ 118,614	\$ 361,741	\$ -	\$ -	\$ 34,518	\$ 1,093,355	\$ 1,256,225	\$ 528,512	\$ 2,139,259	5,610,313
Other Legis Mandates	\$ 282,941	\$ 190,510	\$ 11,967,036	\$ 428,511	\$ 18,308	\$ 109,018	\$ 397,237	\$ 19,710	\$ 322,171	\$ 364,702	\$ 1,316,242	\$ 319,544	15,735,929
REPI	\$ 119,103	\$ 109,070	\$ 69,349	\$ 291,793	\$ 79,825	\$ 90,984	\$ 73,018	\$ 80,471	\$ 141,257	\$ 141,257	\$ 141,257	\$ 141,257	1,478,643
Total Project Costs	\$ 535,707	\$ 299,580	\$ 12,036,385	\$ 838,919	\$ 459,874	\$ 200,002	\$ 470,255	\$ 659,861	\$ 1,612,358	\$ 1,820,535	\$ 1,986,011	\$ 2,600,060	23,519,547
Total Admin Costs	\$ 14	\$ 485	\$ -	\$ -	\$ 150	\$ 979	\$ 2,363	\$ 13,285	\$ 20,000	\$ 2,000	\$ 80,000	\$ 500	119,776
Total RDF Expense	\$ 535,721	\$ 300,065	\$ 12,036,385	\$ 838,919	\$ 460,024	\$ 200,981	\$ 472,619	\$ 673,146	\$ 1,632,358	\$ 1,822,535	\$ 2,066,011	\$ 2,600,560	23,639,323

MN State Sales Allocator	83.3581%	83.2135%	83.1702%	82.8370%	83.3007%	84.2213%	84.7888%	83.7874%	84.3685%	83.4441%	83.2943%	83.3508%	
MN Administrative Cost Allocator	92.1180%	92.0495%	92.0290%	91.8712%	92.0908%	92.5268%	92.7956%	92.3213%	92.5965%	92.1587%	92.0878%	92.1145%	

2017 RDF Rider Recovery

Category A Projects - EP	\$ 46,326	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 440,020	\$ 46,888	\$ 48,690	\$ -	\$ -	581,924
Category B Projects - R&D and HE	\$ 78,088	\$ -	\$ -	\$ 118,614	\$ 361,741	\$ -	\$ -	\$ 34,518	\$ 1,093,355	\$ 1,256,225	\$ 528,512	\$ 2,139,259	5,610,313
Other Legis Mandates	\$ 282,941	\$ 190,510	\$ 11,967,036	\$ 428,511	\$ 18,308	\$ 109,018	\$ 397,237	\$ 19,710	\$ 322,171	\$ 364,702	\$ 1,316,242	\$ 319,544	15,735,929
REPI	\$ 119,103	\$ 109,070	\$ 69,349	\$ 291,793	\$ 79,825	\$ 90,984	\$ 73,018	\$ 80,471	\$ 141,257	\$ 141,257	\$ 141,257	\$ 141,257	1,478,643
Administrative Costs (1)	\$ 13	\$ 446	\$ -	\$ -	\$ 138	\$ 906	\$ 2,193	\$ 12,265	\$ 18,519	\$ 1,843	\$ 73,670	\$ 461	110,454
Expense Recovery	\$ 526,471	\$ 300,026	\$ 12,036,385	\$ 838,919	\$ 460,012	\$ 200,908	\$ 472,448	\$ 586,983	\$ 1,622,190	\$ 1,812,717	\$ 2,059,681	\$ 2,600,521	23,517,262

Total 2017 RDF Expense Recovery	\$ 23,517,262
2016 True-up Amount to be Included in the Calculation of the 2017 RDF Rider	\$ 7,578,800
Total Amount to be Recovered Through the 2017 Rider	\$ 31,096,062

2017 RDF Rider Calculation

	Actual Jan 2017	Actual Feb 2017	Actual Mar 2017	Actual Apr 2017	Actual May 2017	Actual Jun 2017	Actual Jul 2017	Actual Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Total
2017 MN Calendar Month kWh Sales	2,574,621,575	2,180,163,923	2,427,018,393	2,134,118,606	2,328,988,073	2,662,672,590	2,928,623,311	2,673,790,349	2,540,041,615	2,417,950,287	2,317,239,327	2,544,338,166	29,729,566,216
2017 Minnesota RDF Rider Factor													\$ 0.001034

2017 RDF Tracker Calculation

	Actual Jan 2017	Actual Feb 2017	Actual Mar 2017	Actual Apr 2017	Actual May 2017	Actual Jun 2017	Actual Jul 2017	Actual Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Total
Previous Year True-Up	\$ 7,578,800												\$ 7,578,800
Actual Expenses	\$ 526,471	\$ 300,026	\$ 12,036,385	\$ 838,919	\$ 460,012	\$ 200,908	\$ 472,448	\$ 586,983	\$ 1,622,190	\$ 1,812,717	\$ 2,059,681	\$ 2,600,521	23,517,262
Actual Retail Rider Revenues	\$ 2,656,591	\$ 2,324,468	\$ 2,605,033	\$ 2,190,291	\$ 2,344,904	\$ 2,651,406	\$ 2,794,394	\$ 2,979,242	\$ 2,627,079	\$ 2,500,804	\$ 2,396,642	\$ 2,631,523	30,702,375
Grant Project Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance	\$ 5,448,680	\$ (2,024,441)	\$ 9,431,352	\$ (1,351,372)	\$ (1,884,892)	\$ (2,450,498)	\$ (2,321,946)	\$ (2,392,259)	\$ (1,004,889)	\$ (688,086)	\$ (336,960)	\$ (31,002)	393,687

2017 RDF Rider True-Up **\$ 393,687**

RENEWABLE DEVELOPMENT FUND
2018 Rider Calculation
 State of Minnesota Recovery

2018 RDF Expenses

	Forecast Jan 2018	Forecast Feb 2018	Forecast Mar 2018	Forecast Apr 2018	Forecast May 2018	Forecast Jun 2018	Forecast Jul 2018	Forecast Aug 2018	Forecast Sep 2018	Forecast Oct 2018	Forecast Nov 2018	Forecast Dec 2018	Total
Category A Projects - EP	\$ 969,741	\$ 1,850,000	\$ -	\$ -	\$ 1,650,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,469,741
Category B Projects - R&D and HE	\$ 81,742	\$ 656,606	\$ 27,260	\$ 178,155	\$ 1,077,260	\$ 255,629	\$ -	\$ 136,206	\$ 640,657	\$ 119,860	\$ 89,272	\$ 541,303	\$ 3,803,950
Other Legis Mandates	\$ 22,251,067	\$ 4,735,720	\$ 350,385	\$ 1,244,206	\$ 222,844	\$ 238,015	\$ 6,966,981	\$ 298,844	\$ 139,191	\$ 183,512	\$ 172,374	\$ 184,191	\$ 36,987,330
REPI	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 619,819
Total Project Costs	\$ 23,354,202	\$ 7,293,978	\$ 429,297	\$ 1,474,013	\$ 3,001,756	\$ 545,296	\$ 7,018,633	\$ 486,702	\$ 831,500	\$ 355,024	\$ 313,298	\$ 777,146	\$ 45,880,840
Total Admin Costs	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 5,000	\$ 12,800	\$ 3,000	\$ 2,000	\$ 1,000	\$ 500	\$ 30,300
Total RDF Expense	\$ 23,355,202	\$ 7,294,978	\$ 430,297	\$ 1,475,013	\$ 3,002,756	\$ 546,296	\$ 7,023,633	\$ 499,502	\$ 834,500	\$ 357,024	\$ 314,298	\$ 777,646	\$ 45,911,140

MN State Sales Allocator	83.2752%	83.1791%	83.1328%	82.7031%	83.2589%	84.0328%	84.5876%	84.4047%	84.1200%	83.1789%	83.0443%	83.1268%	
MN Administrative Cost Allocator	92.0787%	92.0332%	92.0113%	91.8078%	92.0710%	92.4375%	92.7003%	92.6137%	92.4788%	92.0331%	91.9694%	92.0084%	

2018 RDF Rider Recovery

Category A Projects - EP	\$ 807,554	\$ 1,538,813	\$ -	\$ -	\$ 1,373,772	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,720,139
Category B Projects - R&D and HE	\$ 81,742	\$ 656,606	\$ 27,260	\$ 178,155	\$ 1,077,260	\$ 255,629	\$ -	\$ 136,206	\$ 640,657	\$ 119,860	\$ 89,272	\$ 541,303	\$ 3,803,950
Other Legis Mandates	\$ 22,251,067	\$ 4,735,720	\$ 350,385	\$ 1,244,206	\$ 222,844	\$ 238,015	\$ 6,966,981	\$ 298,844	\$ 139,191	\$ 183,512	\$ 172,374	\$ 184,191	\$ 36,987,330
REPI	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 51,652	\$ 619,819
Administrative Costs (1)	\$ 921	\$ 920	\$ 920	\$ 918	\$ 921	\$ 924	\$ 4,635	\$ 11,855	\$ 2,774	\$ 1,841	\$ 920	\$ 460	\$ 28,009
Expense Recovery	\$ 23,192,935	\$ 6,983,711	\$ 430,217	\$ 1,474,931	\$ 2,726,448	\$ 546,220	\$ 7,023,268	\$ 498,556	\$ 834,274	\$ 356,864	\$ 314,217	\$ 777,606	\$ 45,159,247

Total 2018 RDF Expense Recovery	\$ 45,159,247
2017 True-up Amount to be Included in the Calculation of the 2018 RDF Rider	\$ 393,687
Total Amount to be Recovered Through the 2018 Rider	\$ 45,552,934

2018 RDF Rider Calculation

	Forecast Jan 2018	Forecast Feb 2018	Forecast Mar 2018	Forecast Apr 2018	Forecast May 2018	Forecast Jun 2018	Forecast Jul 2018	Forecast Aug 2018	Forecast Sep 2018	Forecast Oct 2018	Forecast Nov 2018	Forecast Dec 2018	Total
2018 MN Calendar Month kWh Sale	2,594,773,782	2,261,065,592	2,425,331,705	2,129,340,505	2,352,992,692	2,601,408,301	2,995,556,264	2,904,155,357	2,499,917,187	2,378,928,194	2,280,766,491	2,511,567,263	29,935,803,334
2018 Minnesota RDF Rider Factor													\$ 0.001522

2018 RDF Tracker Calculation

	Forecast Jan 2018	Forecast Feb 2018	Forecast Mar 2018	Forecast Apr 2018	Forecast May 2018	Forecast Jun 2018	Forecast Jul 2018	Forecast Aug 2018	Forecast Sep 2018	Forecast Oct 2018	Forecast Nov 2018	Forecast Dec 2018	Total
Previous Year True-Up	\$ 393,687												\$ 393,687
Actual Expenses	\$ 23,192,935	\$ 6,983,711	\$ 430,217	\$ 1,474,931	\$ 2,726,448	\$ 546,220	\$ 7,023,268	\$ 498,556	\$ 834,274	\$ 356,864	\$ 314,217	\$ 777,606	\$ 45,159,247
Actual Retail Rider Revenues	\$ 3,948,435	\$ 3,440,635	\$ 3,690,597	\$ 3,240,191	\$ 3,580,519	\$ 3,958,530	\$ 4,558,300	\$ 4,419,217	\$ 3,804,092	\$ 3,619,985	\$ 3,470,614	\$ 3,821,820	\$ 45,552,934
Grant Project Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance	\$ 19,638,188	\$ 3,543,076	\$ (3,260,380)	\$ (1,765,260)	\$ (854,071)	\$ (3,412,310)	\$ 2,464,967	\$ (3,920,660)	\$ (2,969,818)	\$ (3,263,121)	\$ (3,156,396)	\$ (3,044,215)	\$ -

2018 RDF Rider True-Up	\$ -
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RENEWABLE DEVELOPMENT FUND
2019 Rider Calculation
 State of Minnesota Recovery

2019 RDF Expenses

	Forecast Jan 2019	Forecast Feb 2019	Forecast Mar 2019	Forecast Apr 2019	Forecast May 2019	Forecast Jun 2019	Forecast Jul 2019	Forecast Aug 2019	Forecast Sep 2019	Forecast Oct 2019	Forecast Nov 2019	Forecast Dec 2019	Total 2019
Category A Projects - EP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Category B Projects - R&D	\$ -	\$ 241,596	\$ 59,515	\$ -	\$ -	\$ 338,257	\$ 68,000	\$ 105,906	\$ 58,257	\$ -	\$ 161,000	\$ 100,000	\$ 1,132,531
Other Legis Mandates	\$ 13,788,735	\$ 7,422,098	\$ 361,763	\$ 2,187,439	\$ 176,998	\$ 41,686	\$ 6,834,504	\$ 19,835	\$ 35,378	\$ 26,560	\$ 30,269	\$ 34,678	\$ 30,959,943
REPI	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 607,603
Total Project Costs	\$ 13,839,369	\$ 7,714,328	\$ 471,912	\$ 2,238,073	\$ 227,632	\$ 430,577	\$ 6,953,138	\$ 176,375	\$ 144,269	\$ 77,194	\$ 241,903	\$ 185,312	\$ 32,700,077
Total Admin Costs	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 5,000	\$ 12,800	\$ 3,000	\$ 2,000	\$ 1,000	\$ 500	\$ 30,300
Total RDF Expense	\$ 13,840,369	\$ 7,715,328	\$ 472,912	\$ 2,239,073	\$ 228,632	\$ 431,577	\$ 6,958,138	\$ 189,175	\$ 147,269	\$ 79,194	\$ 242,903	\$ 185,812	\$ 32,730,377
MN State Sales Allocator	83.1532%	83.0029%	82.9827%	82.5442%	83.1220%	83.9175%	84.5079%	84.4472%	84.1853%	83.2516%	83.1335%	83.2334%	
MN Administrative Cost Allocator	92.0209%	91.9498%	91.9402%	91.7325%	92.0062%	92.3829%	92.6626%	92.6338%	92.5098%	92.0676%	92.0116%	92.0589%	

2019 RDF Rider Recovery

Category A Projects - EP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Category B Projects - R&D	\$ -	\$ 241,596	\$ 59,515	\$ -	\$ -	\$ 338,257	\$ 68,000	\$ 105,906	\$ 58,257	\$ -	\$ 161,000	\$ 100,000	\$ 1,132,531
Other Legis Mandates	\$ 13,788,735	\$ 7,422,098	\$ 361,763	\$ 2,187,439	\$ 176,998	\$ 41,686	\$ 6,834,504	\$ 19,835	\$ 35,378	\$ 26,560	\$ 30,269	\$ 34,678	\$ 30,959,943
REPI	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 50,634	\$ 607,603
Administrative Costs (1)	\$ 920	\$ 919	\$ 919	\$ 917	\$ 920	\$ 924	\$ 4,633	\$ 11,857	\$ 2,775	\$ 1,841	\$ 920	\$ 460	\$ 28,008
Expense Recovery	\$ 13,840,289	\$ 7,715,247	\$ 472,831	\$ 2,238,990	\$ 228,552	\$ 431,500	\$ 6,957,771	\$ 188,232	\$ 147,044	\$ 79,035	\$ 242,823	\$ 185,772	\$ 32,728,084

Total 2019 RDF Expense Recovery
 2018 True-up Amount to be Included in the Calculation of the 2019 RDF Rider
 Total Amount to be Recovered Through the 2019 Rider

\$ 32,728,084
\$ -
\$ 32,728,084

2019 RDF Rider Calculation

	Forecast Jan 2019	Forecast Feb 2019	Forecast Mar 2019	Forecast Apr 2019	Forecast May 2019	Forecast Jun 2019	Forecast Jul 2019	Forecast Aug 2019	Forecast Sep 2019	Forecast Oct 2019	Forecast Nov 2019	Forecast Dec 2019	Total 2019
2019 MN Calendar Month kWh Sales	2,573,636,533	2,236,863,653	2,404,316,849	2,110,280,203	2,335,656,884	2,585,698,881	2,985,144,033	2,925,689,359	2,523,445,559	2,402,314,405	2,305,101,307	2,542,355,955	29,930,503,619
2019 Minnesota RDF Rider Factor													\$ 0.001093

2019 RDF Tracker Calculation

	Forecast Jan 2019	Forecast Feb 2019	Forecast Mar 2019	Forecast Apr 2019	Forecast May 2019	Forecast Jun 2019	Forecast Jul 2019	Forecast Aug 2019	Forecast Sep 2019	Forecast Oct 2019	Forecast Nov 2019	Forecast Dec 2019	Total 2019
Previous Year True-Up	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Actual Expenses	\$ 13,840,289	\$ 7,715,247	\$ 472,831	\$ 2,238,990	\$ 228,552	\$ 431,500	\$ 6,957,771	\$ 188,232	\$ 147,044	\$ 79,035	\$ 242,823	\$ 185,772	\$ 32,728,084
Actual Retail Rider Revenues	\$ 2,814,192	\$ 2,445,942	\$ 2,629,046	\$ 2,307,526	\$ 2,553,969	\$ 2,827,382	\$ 3,264,163	\$ 3,199,151	\$ 2,759,310	\$ 2,626,857	\$ 2,520,557	\$ 2,779,988	\$ 32,728,084
Grant Project Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance	\$ 11,026,096	\$ 5,269,306	\$ (2,156,216)	\$ (68,537)	\$ (2,325,417)	\$ (2,395,882)	\$ 3,693,608	\$ (3,010,920)	\$ (2,612,266)	\$ (2,547,822)	\$ (2,277,735)	\$ (2,594,216)	\$ -

2019 RDF Rider True-Up

\$ -

See Attachment 17 for an explanation of all footnotes.

RENEWABLE DEVELOPMENT FUND
Annual Compliance Report

Work Order	Contract Number	Project Status	Contract Awardee	Project	Amount Awarded	Amount Dispersed through August 2017	Forecast of Future Payments			Total Disbursement (Actual + Forecast)	Difference Between Award and Forecast
							September to December 2017	2018	2019		
Cycle 1 Projects											
Category A											
10184513	AB07	Complete	AnAerobics, Inc	Waste to Methane	\$ 1,300,000	\$ 1,100,000	\$ -	\$ -	\$ -	\$ 1,100,000	\$ (200,000)
10184517	AH01	Ongoing	Crown Hydro, LLC	Hydro Development Project	\$ 5,100,000	\$ 1,538,591	\$ -	\$ -	\$ -	\$ 1,538,591	\$ (3,561,409)
10184529	AS05	Complete	Minnesota Department of Commerce	Solar Rebate	\$ 1,150,000	\$ 1,150,000	\$ -	\$ -	\$ -	\$ 1,150,000	\$ -
10184532	AS06	Complete	Science Museum of Minnesota	Solar Roof	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000	\$ -
10184533	AW03	Complete	Project Resources Corporation	Prototype Wind Turbine Installations	\$ 900,000	\$ 900,000	\$ -	\$ -	\$ -	\$ 900,000	\$ -
10184535	AW10	Complete	Pipestone-Jasper School System	Wind Turbine	\$ 752,835	\$ 752,835	\$ -	\$ -	\$ -	\$ 752,835	\$ -
Subtotal Category A (EP Projects)					\$ 9,302,835	\$ 5,541,426	\$ -	\$ -	\$ -	\$ 5,541,426	\$ (3,761,409)
Category B/C (Research and Development Projects)											
10184536	BB03	Complete	Sebesta Blomberg & Associates, Inc	Ethanol Plant	\$ 738,654	\$ 738,645	\$ -	\$ -	\$ -	\$ 738,645	\$ (9)
10184539	BB06	Complete	Energy Performance Systems, Inc	MN Valley Conversion	\$ 266,508	\$ 257,247	\$ -	\$ -	\$ -	\$ 257,247	\$ (9,261)
10184542	BB09	Complete	U of ND Energy & Environ Research C	Co Firing	\$ 444,478	\$ 444,443	\$ -	\$ -	\$ -	\$ 444,443	\$ (35)
10184548	BB10	Complete	NREL (MagStar Tech & Comm Pwr Co	Centrifugal Filter	\$ 638,635	\$ 548,692	\$ -	\$ -	\$ -	\$ 548,692	\$ (89,943)
10184557	BB12	Complete	U of ND Energy & Environ Research C	Biomass Impact on SCR	\$ 60,000	\$ 59,981	\$ -	\$ -	\$ -	\$ 59,981	\$ (19)
10184560	BW06	Complete	D.H. Blattner & Sons, Inc	Self Erecting Wind Turbine	\$ 68,470	\$ 62,346	\$ -	\$ -	\$ -	\$ 62,346	\$ (6,124)
10184564	CB07	Complete	Colorado School of Mines	Catalysts for proton membrane fuel cell	\$ 1,116,742	\$ 1,116,742	\$ -	\$ -	\$ -	\$ 1,116,742	\$ -
10184566	CB08	Complete	U of ND Energy & Environ Research C	SOFC Gasification System	\$ 1,250,142	\$ 1,250,056	\$ -	\$ -	\$ -	\$ 1,250,056	\$ (86)
10184570	CS05	Complete	NREL	Titania Solar Cell	\$ 934,628	\$ 924,757	\$ -	\$ -	\$ -	\$ 924,757	\$ (9,871)
10184573	CW02	Complete	Global Energy Concepts, LLC	Wind Turbine Control Models	\$ 75,000	\$ 73,239	\$ -	\$ -	\$ -	\$ 73,239	\$ (1,761)
10184576	CW06	Complete	U of MN, Dept of Electrical Engineering	Inertial Storage	\$ 654,309	\$ 654,309	\$ -	\$ -	\$ -	\$ 654,309	\$ -
Subtotal Category B/C					\$ 6,247,566	\$ 6,130,458	\$ -	\$ -	\$ -	\$ 6,130,458	\$ (117,108)
TOTAL Cycle 1 Projects					\$ 15,550,401	\$ 11,671,884	\$ -	\$ -	\$ -	\$ 11,671,884	\$ (3,878,517)
TOTAL Cycle 2 Projects					\$ 19,440,996	\$ 17,369,558	\$ -	\$ -	\$ -	\$ 17,369,558	\$ (2,071,438)
TOTAL Cycle 3 Projects					\$ 22,510,293	\$ 22,063,889	\$ -	\$ -	\$ -	\$ 22,063,889	\$ (446,404)
TOTAL Cycle 4 Projects					\$ 39,564,948	\$ 14,163,236	\$ 5,131,277	\$ 8,273,691	\$ 1,132,531	\$ 28,700,735	\$ (10,864,213)

RENEWABLE DEVELOPMENT FUND
Annual Compliance Report

Work Order	Contract Number	Project Status	Contract Awardee	Project	Amount Awarded	Amount Dispersed through August 2017	Forecast of Future Payments			Total Disbursement (Actual + Forecast)	Difference Between Award and Forecast
							September to December 2017	2018	2019		
Other Legislative Mandates											
n/a	Benson (16)	Ongoing	City of Benson	Economic Development	\$ 20,000,000	\$ -	\$ -	\$ 4,000,000	\$ 6,500,000	\$ 10,500,000	\$ (9,500,000)
n/a	Laurentian (15)	Ongoing	Laurentian Energy Authority	2017-2021	\$ 34,000,000	\$ -	\$ -	\$ 13,600,000	\$ 6,800,000	\$ 20,400,000	\$ (13,600,000)
n/a	DEED (17)	Ongoing	DEED	Workforce Development	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000	\$ -
n/a	MMB (14)	Ongoing	Minnesota Management and Budget	Renewable Development	\$ 364,000,000	\$ -	\$ -	\$ 14,925,034	\$ 13,336,324	\$ 28,261,358	\$ (335,738,642)
10349848	U of M (2)	Complete	U of M, IREE	Hydrogen Research	\$ 10,000,000	\$ 10,000,000	\$ -	\$ -	\$ -	\$ 10,000,000	\$ -
10736059	Excelsior (4)	Complete	Excelsior Energy	Innovative Energy Project	\$ 10,000,000	\$ 10,000,000	\$ -	\$ -	\$ -	\$ 10,000,000	\$ -
10707553	AURI (5)	Complete	AURI	BioFuel Projects	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000	\$ -
10691805	PCA REPI Pay (6)	Complete	PCA REPI Payment	PCA REPI Payment	\$ (4,000,000)	\$ (4,000,000)	\$ -	\$ -	\$ -	\$ (4,000,000)	\$ -
11000275	Next Gen Incent (7)	Complete	Next Gen Incentives	Next Gen Incentives	\$ 15,250,000	\$ 15,250,011	\$ -	\$ -	\$ -	\$ 15,250,011	\$ 11
11255981	DER Program Support (9)	Complete	DER Program Support	DER Program Support	\$ 1,975,000	\$ 1,975,000	\$ -	\$ -	\$ -	\$ 1,975,000	\$ -
11262958	IREE Program Support (8)	Complete	IREE Program Support	IREE Program Support	\$ 15,000,000	\$ 15,000,000	\$ -	\$ -	\$ -	\$ 15,000,000	\$ -
11445577	Solar Rebates, MN Made (10)	Complete	Solar Program Incentives	Solar Program Incentives	\$ 21,000,000	\$ 16,507,343	\$ 1,182,533	\$ 2,246,317	\$ 782,640	\$ 20,718,833	\$ (281,167)
11927339	DOC Solar Incentive Program (11)	Complete	DOC Solar Incentive Program	Solar Program Incentives	\$ 120,000,000	\$ 47,977,289	\$ -	\$ -	\$ -	\$ 47,977,289	\$ (72,022,711)
11965275	Solar Rewards (12)	Ongoing	Solar Rewards	Solar Program Incentives	\$ 25,000,000	\$ 1,143,890	\$ 140,125	\$ 2,215,979	\$ 3,540,979	\$ 7,040,973	\$ (17,959,027)
Total Legislative Mandates					\$ 633,375,000	\$ 114,003,533	\$ 2,322,658	\$ 36,987,330	\$ 30,959,943	\$ 184,273,464	\$ (449,101,536)
DOC State Incentive Support (3)											
REPI	Wind	Ongoing	Wind	\$4.5 M for 2003 - 2005 and \$9.4 for 2006 - 200	\$ 51,100,000	\$ 56,434,447	\$ -	\$ -	\$ -	\$ 56,434,447	\$ 5,334,447
REPI	Biogas & Hydro	Ongoing	Biogas & Hydro	\$1.5 M for 2003 - 2009	\$ 10,500,000	\$ 5,615,995	\$ 565,029	\$ 619,819	\$ 607,603	\$ 7,408,445	\$ (3,091,555)
REPI	Wind-1st 100	Ongoing	REPI Governor's Budget 1st 100 MW		\$ -	\$ 29,493,629	\$ -	\$ -	\$ -	\$ 29,493,629	\$ 29,493,629
Total Renewable Energy Production Incent.					\$ 61,600,000	\$ 91,544,071	\$ 565,029	\$ 619,819	\$ 607,603	\$ 93,336,522	\$ 31,736,522
TOTAL All Legislative Mandates					\$ 694,975,000	\$ 205,547,604	\$ 2,887,687	\$ 37,607,149	\$ 31,567,546	\$ 277,609,986	\$ (417,365,014)
ADMINISTRATIVE COSTS											
Cycle 1 Administrative Work Orders (1)											
10182282	Contract Admin.				\$ -	\$ 36,105	\$ -	\$ -	\$ -	\$ 36,105	\$ 36,105
10184439	RFP Process Costs				\$ -	\$ 27,028	\$ -	\$ -	\$ -	\$ 27,028	\$ 27,028
10184487	Negotiation Costs				\$ 114,650	\$ 80,026	\$ -	\$ -	\$ -	\$ 80,026	\$ (34,624)
TOTAL Cycle 1 Admin Costs					\$ 114,650	\$ 143,160	\$ -	\$ -	\$ -	\$ 143,160	\$ 28,510
Cycle 2 Administrative Work Orders (1)											
10248981	Contract Admin.				\$ -	\$ 273,688	\$ -	\$ -	\$ -	\$ 273,688	\$ 273,688
10248983	RFP Process Costs				\$ -	\$ 429,173	\$ -	\$ -	\$ -	\$ 429,173	\$ 429,173
10248982	Negotiation Costs				\$ -	\$ 23,185	\$ -	\$ -	\$ -	\$ 23,185	\$ 23,185
TOTAL Cycle 2 Admin Costs					\$ -	\$ 726,046	\$ -	\$ -	\$ -	\$ 726,046	\$ 726,046
Cycle 3 Administrative Work Orders (1)											
10942097	Contract Admin.				\$ -	\$ 219,632	\$ -	\$ -	\$ -	\$ 219,632	\$ 219,632
10942105	RFP Process Costs				\$ -	\$ 159,938	\$ -	\$ -	\$ -	\$ 159,938	\$ 159,938
10942103	Negotiation Costs				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL Cycle 3 Admin Costs					\$ -	\$ 379,570	\$ -	\$ -	\$ -	\$ 379,570	\$ 379,570
Cycle 4 Administrative Work Orders (1)											
11742217	Contract Admin.				\$ -	\$ 167,570	\$ 102,500	\$ 30,300	\$ 30,300	\$ 330,670	\$ 330,670
TOTAL Cycle 4 Admin Costs					\$ -	\$ 167,570	\$ 102,500	\$ 30,300	\$ 30,300	\$ 330,670	\$ 330,670
TOTAL Admin Costs					\$ 114,650	\$ 1,416,346	\$ 102,500	\$ 30,300	\$ 30,300	\$ 1,579,446	\$ 1,464,796
TOTAL ALL RDF					\$ 792,156,288	\$ 272,232,517	\$ 8,121,464	\$ 45,911,140	\$ 32,730,377	\$ 358,995,497	\$ (433,160,790)

See Attachment 17 for an explanation of all footnotes.

RENEWABLE DEVELOPMENT FUND
Annual Compliance Report - Cycle 2 Projects
Actuals through August 2017
Forecast through December 2019

ALL CYCLE 2 PROJECTS COMPLETED - No Future Grant Payments

Project No.	Name	Total Amount Awarded	Actual Through Aug 2017	Forecast Sept-Dec 2017	Forecast 2018	Forecast 2019	Project Totals
EP-26	Hilltop Farm Cooperative	\$ 1,200,000	\$ 1,200,000	\$ -	\$ -	\$ -	1,200,000
EP-34	Lower St. Anthony Falls	\$ 2,000,000	\$ 2,000,000	\$ -	\$ -	\$ -	2,000,000
EP-39	St. Olaf College	\$ 1,500,000	\$ 1,500,000	\$ -	\$ -	\$ -	1,500,000
EP-44	Biomass Cogen Demo	\$ 2,000,000	\$ 400,000	\$ -	\$ -	\$ -	400,000
EP-51	Diamond K and Greden	\$ 936,530	\$ 936,530	\$ -	\$ -	\$ -	936,530
Total Energy Production		\$ 7,636,530	\$ 6,036,530	\$ -	\$ -	\$ -	6,036,530
RD-22	Energy Conversion Devices	\$ 900,000	\$ 900,000	\$ -	\$ -	\$ -	900,000
RD-26	Coaltec Energy	\$ 450,000	\$ 450,000	\$ -	\$ -	\$ -	450,000
RD-27	Rural Advantage	\$ 318,800	\$ 318,800	\$ -	\$ -	\$ -	318,800
RD-29	U of M	\$ 299,284	\$ 299,284	\$ -	\$ -	\$ -	299,284
RD-34	University of Florida	\$ 999,995	\$ 996,874	\$ -	\$ -	\$ -	996,874
RD-38*	Gas Technology Institute	\$ 861,860	\$ 861,860	\$ -	\$ -	\$ -	861,860
RD-50	Energy Perf Systems	\$ 957,929	\$ 957,929	\$ -	\$ -	\$ -	957,929
RD-56	U of M	\$ 858,363	\$ 803,246	\$ -	\$ -	\$ -	803,246
RD-57	WindLogics	\$ 997,000	\$ 997,000	\$ -	\$ -	\$ -	997,000
RD-69	AURI	\$ 760,000	\$ 760,000	\$ -	\$ -	\$ -	760,000
RD-72	Production Specialties	\$ 228,735	\$ 228,735	\$ -	\$ -	\$ -	228,735
RD-78	Interphases Research	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	1,000,000
RD-87	Global Energy Concepts	\$ 370,000	\$ 370,000	\$ -	\$ -	\$ -	370,000
RD-93	NREL	\$ 1,000,000	\$ 949,005	\$ -	\$ -	\$ -	949,005
RD-94	Center for Energy and Env	\$ 397,500	\$ 397,500	\$ -	\$ -	\$ -	397,500
RD-107	NREL	\$ 1,000,000	\$ 944,452	\$ -	\$ -	\$ -	944,452
RD-110	Center for Sustainable Env-Iowa St Univ	\$ 405,000	\$ 98,343	\$ -	\$ -	\$ -	98,343
Total Research & Dev.		\$ 11,804,466	\$ 11,333,028	\$ -	\$ -	\$ -	11,333,028
Total Cycle 2 Projects		\$ 19,440,996	\$ 17,369,558	\$ -	\$ -	\$ -	17,369,558
EP-43	Excelsior Energy (4)	\$ 10,000,000	\$ 10,000,000	\$ -	\$ -	\$ -	10,000,000
Total Cycle 2 Projects Plus Excelsior		\$ 29,440,996	\$ 27,369,558	\$ -	\$ -	\$ -	27,369,558

See Attachment 17 for an explanation of all footnotes.

RENEWABLE DEVELOPMENT FUND
Annual Compliance Report - Cycle 3 Projects
Actuals through August 2017
Forecast through December 2019

Project No.	Name	Total Amount Awarded	Actual Through Aug 2017	Forecast Sept-Dec 2017	Forecast 2018	Forecast 2019	Project Totals
EP3-2	Merrick	\$ 735,000	\$ 735,000	\$ -	\$ -	\$ -	\$ 735,000
EP3-3	Best Power International	\$ 1,994,480	\$ 1,994,480	\$ -	\$ -	\$ -	\$ 1,994,480
EP3-10	Outland Renewable Energy	\$ 2,000,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000
EP3-11	EyeOn Energy/Minneapolis	\$ 2,000,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ 2,000,000
EP3-12	Freenergy	\$ 1,488,922	\$ 1,488,922	\$ -	\$ -	\$ -	\$ 1,488,922
EP3-13	Minnesota DNR	\$ 894,000	\$ 878,966	\$ -	\$ -	\$ -	\$ 878,966
Total Energy Production		\$ 9,112,402	\$ 9,097,368	\$ -	\$ -	\$ -	\$ 9,097,368
RD3-1	U of M (Koda Energy)	\$ 992,989	\$ 976,743	\$ -	\$ -	\$ -	\$ 976,743
RD3-2	SarTec Corporation	\$ 350,000	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
RD3-4	Bepex International	\$ 924,671	\$ 924,671	\$ -	\$ -	\$ -	\$ 924,671
RD3-12	Xcel Energy	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
RD3-21	Northern Planins Power	\$ 493,608	\$ 493,608	\$ -	\$ -	\$ -	\$ 493,608
RD3-23	U of M (Biomass)	\$ 819,159	\$ 729,717	\$ -	\$ -	\$ -	\$ 729,717
RD3-25	U of M (Nanocrystals)	\$ 732,032	\$ 732,032	\$ -	\$ -	\$ -	\$ 732,032
RD3-28	U of M (Cropping)	\$ 979,082	\$ 979,048	\$ -	\$ -	\$ -	\$ 979,048
RD3-42	U of M (Hydro)	\$ 999,999	\$ 999,598	\$ -	\$ -	\$ -	\$ 999,598
RD3-53	InterPhases Research	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
RD3-58	West Central Telephone	\$ 137,000	\$ 137,000	\$ -	\$ -	\$ -	\$ 137,000
RD3-66	UND	\$ 999,065	\$ 998,697	\$ -	\$ -	\$ -	\$ 998,697
RD3-68	UND	\$ 970,558	\$ 970,480	\$ -	\$ -	\$ -	\$ 970,480
RD3-69	MVAP	\$ 1,000,000	\$ 825,490	\$ -	\$ -	\$ -	\$ 825,490
RD3-71	UND	\$ 999,728	\$ 999,438	\$ -	\$ -	\$ -	\$ 999,438
RD3-77	Coaltec	\$ 1,000,000	\$ 850,000	\$ -	\$ -	\$ -	\$ 850,000
Total Research & Dev.		\$ 13,397,891	\$ 12,966,521	\$ -	\$ -	\$ -	\$ 12,966,521
Board Pilot Investment (13)		\$ 5,000,000					
Total Cycle 3 Projects		\$ 27,510,293	\$ 22,063,889	\$ -	\$ -	\$ -	\$ 22,063,889

RENEWABLE DEVELOPMENT FUND

Annual Compliance Report - Cycle 4 Project Payments Included in Rate Rider Calculation

Actuals through August 2017

Forecast through December 2019

Project No.	Name	Total Amount Awarded	Actual Through Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Forecast Jan 2018	Forecast Feb 2018	Forecast Mar 2018	Forecast Apr 2018	Forecast May 2018	Forecast Jun 2018	Forecast Jul 2018	Forecast Aug 2018	Forecast Sep 2018	Forecast Oct 2018	Forecast Nov 2018	Forecast Dec 2018
EP4-5	Best Power Intl	\$ 900,000	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-6	Best Pwr-St. John's	\$ 172,213	\$ 172,213	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-11	Innovative Pwr Sys	\$ 1,850,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,850,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-13	Metro Airports Comm	\$ 2,022,507	\$ 2,022,507	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-20	Target Corporation	\$ 583,513	\$ 525,162	\$ -	\$ 58,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-22	Mnpls Park & Rec Bd	\$ 969,741	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 969,741	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-29	Dragonfly Solar Dge	\$ 1,650,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,650,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-34	St Paul Saints Stadium	\$ 555,750	\$ 500,175	\$ 55,575	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-41	City of Hutchinson	\$ 958,369	\$ 958,369	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EP4-48	Oak Leaf Energy Ptr	\$ 2,000,000	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Energy Production		\$ 11,662,093	\$ 7,078,426	\$ 55,575	\$ 58,351	\$ -	\$ -	\$ 969,741	\$ 1,850,000	\$ -	\$ -	\$ 1,650,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RD4-2	Univ of Minn Dairy	\$ 982,408	\$ 407,279	\$ 27,574	\$ -	\$ 37,574	\$ 45,146	\$ 37,629	\$ -	\$ -	\$ -	\$ -	\$ 43,629	\$ -	\$ -	\$ -	\$ 58,629	\$ -	\$ -
RD4-11	UofM NRR1 Torrefact	\$ 1,899,499	\$ 17,481	\$ -	\$ -	\$ 465,119	\$ -	\$ -	\$ 478,619	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 640,657	\$ -	\$ 89,272	\$ 74,393
RD4-12	UofM Noise	\$ 625,102	\$ 234,263	\$ 78,088	\$ 88,225	\$ -	\$ 44,113	\$ 44,113	\$ -	\$ 27,260	\$ -	\$ -	\$ 27,260	\$ -	\$ 27,260	\$ -	\$ 27,260	\$ -	\$ 27,260
RD4-13	UofM V W S	\$ 1,391,684	\$ 500,140	\$ 154,813	\$ -	\$ -	\$ -	\$ -	\$ 154,813	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 108,946	\$ -	\$ -	\$ -	\$ -
RD4-14	Barr Engineering	\$ 161,081	\$ 51,312	\$ -	\$ -	\$ 25,819	\$ -	\$ -	\$ 23,174	\$ -	\$ 12,155	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,971	\$ -	\$ 14,650
RD4-1	U of M Gasification	\$ 999,999	\$ 36,192	\$ 113,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
RD4-7	Interphases Solar	\$ 1,000,000	\$ -	\$ -	\$ 168,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 166,000	\$ -	\$ 102,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 175,000
HE4-1	MN W Comm&Tech Coll	\$ 5,500,000	\$ 2,400,000	\$ -	\$ -	\$ -	\$ 2,050,000	\$ -	\$ -	\$ -	\$ -	\$ 1,050,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HE4-2	U of St Thomas	\$ 2,157,215	\$ 1,438,143	\$ 719,072	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HE4-3	U of Minnesota	\$ 3,000,000	\$ 2,000,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Research & Dev.		\$ 17,716,988	\$ 7,084,810	\$ 1,093,355	\$ 1,256,225	\$ 528,512	\$ 2,139,259	\$ 81,742	\$ 656,606	\$ 27,260	\$ 178,155	\$ 1,077,260	\$ 255,629	\$ -	\$ 136,206	\$ 640,657	\$ 119,860	\$ 89,272	\$ 541,303
Total Cycle 4 Projects		\$ 29,379,081	\$ 14,163,236	\$ 1,148,930	\$ 1,314,576	\$ 528,512	\$ 2,139,259	\$ 1,051,483	\$ 2,506,606	\$ 27,260	\$ 178,155	\$ 2,727,260	\$ 255,629	\$ -	\$ 136,206	\$ 640,657	\$ 119,860	\$ 89,272	\$ 541,303

See Attachment 17 for an explanation of all footnotes.

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RENEWABLE DEVELOPMENT
 Annual Compliance Report - Cycle 4
 Actuals through August 2017
 Forecast through December 2017

Project No.	Name	Forecast Jan 2019	Forecast Feb 2019	Forecast Mar 2019	Forecast Apr 2019	Forecast May 2019	Forecast Jun 2019	Forecast Jul 2019	Forecast Aug 2019	Forecast Sep 2019	Forecast Oct 2019	Forecast Nov 2019	Forecast Dec 2019	Project Totals
EP4-5	Best Power Intl	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000
EP4-6	Best Pwr-St. John's	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 172,213
EP4-11	Innovative Pwr Sys	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,850,000
EP4-13	Metro Airports Comm	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,022,507
EP4-20	Target Corporation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 583,513
EP4-22	Mnpls Park & Rec Bd	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 969,741
EP4-29	Dragonfly Solar Dge	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,650,000
EP4-34	St Paul Saints Stadium	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 555,750
EP4-41	City of Hutchinson	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 958,369
EP4-48	Oak Leaf Energy Ptr	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000
Total Energy Production		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,662,093
RD4-2	Univ of Minn Dairy	\$ -	\$ 58,257	\$ -	\$ -	\$ -	\$ 58,257	\$ -	\$ -	\$ 58,257	\$ -	\$ -	\$ -	\$ 832,231
RD4-11	UoFM NRR1 Torrefact	\$ -	\$ 74,393	\$ 59,515	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,899,449
RD4-12	UoFM Noise	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 625,102
RD4-13	UoFM V W S	\$ -	\$ 108,946	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 105,906	\$ -	\$ -	\$ -	\$ -	\$ 1,133,564
RD4-14	Barr Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 161,081
RD4-1	U of M Gasification	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 280,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 890,000
RD4-7	Interphases Solar	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 68,000	\$ -	\$ -	\$ -	\$ 161,000	\$ -	\$ 840,000
HE4-1	MN W Comm&Tech Coll	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,500,000
HE4-2	U of St Thomas	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,157,215
HE4-3	U of Minnesota	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,000
Total Research & Dev.		\$ -	\$ 241,596	\$ 59,515	\$ -	\$ -	\$ 338,257	\$ 68,000	\$ 105,906	\$ 58,257	\$ -	\$ 161,000	\$ 100,000	\$ 17,038,642
Total Cycle 4 Projects		\$ -	\$ 241,596	\$ 59,515	\$ -	\$ -	\$ 338,257	\$ 68,000	\$ 105,906	\$ 58,257	\$ -	\$ 161,000	\$ 100,000	\$ 28,700,735

See Attachment 17 for an explanation of:

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Previous Cycle RDF Grant Project Payments Not Included in 2017 Forecast for Cost Recovery*

	Sep-17	Oct-17	Nov-17	Dec-17	Total
Crown Hydro	0	0	0	0	0
Coaltec	0	0	0	0	0
MN Renew Energy Soc	0	0	0	0	0
Bergey Windpower	0	0	0	0	0
Red Wing	0	0	297,160	0	297,160
Monthly Sub Total	0	0	297,160	0	297,160
Cumulative Obligation	0	0	297,160	297,160	

* Based on information from project sponsors and/or prior project performance.

** The timing and amount of these payments is based on prior project performance and budget status rather than the timing and amounts reflected in RDF grant contract milestone schedules.

Previous Cycle RDF Grant Project Payments Not Included in 2018 Forecast for Cost Recovery*

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total
Crown Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0
Coaltec	0	0	0	100,000	0	0	0	0	0	0	0	0	100,000
MN Renew Energy Soc (18)	0	0	0	0	1,300,000	0	0	0	0	1,300,000	0	0	2,600,000
Bergey Windpower	0	0	0	155,000	155,000	155,000	0	0	0	155,000	155,000	0	775,000
Red Wing	0	0	0	0	0	0	0	0	0	0	999,736	0	999,736
Monthly Sub Total	0	0	0	255,000	1,455,000	155,000	0	0	0	1,455,000	1,154,736	0	4,474,736
Cumulative Obligation	0	0	0	255,000	1,710,000	1,865,000	1,865,000	1,865,000	1,865,000	3,320,000	4,474,736	4,474,736	

Previous Cycle RDF Grant Project Payments Not Included in 2019 Forecast for Cost Recovery*

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
Crown Hydro	761,409	0	0	0	750,000	0	0	900,000	0	0	650,000	0	3,061,409
Coaltec	0	0	0	50,000	0	0	0	0	0	0	0	0	50,000
MN Renew Energy Soc	0	0	0	61,320	0	0	0	0	0	0	0	0	61,320
Bergey Windpower	0	155,000	0	155,000	0	21,600	0	0	0	0	0	0	331,600
Red Wing	0	0	302,577	0	0	0	0	0	0	100,000	0	0	402,577
Monthly Sub Total	761,409	155,000	302,577	266,320	750,000	21,600	0	900,000	0	100,000	650,000	0	3,906,906
Cumulative Obligation	761,409	916,409	1,218,986	1,485,306	2,235,306	2,256,906	2,256,906	3,156,906	3,156,906	3,256,906	3,906,906	3,906,906	

* Based on information from project sponsors and/or prior project performance.

RENEWABLE DEVELOPMENT FUND
Annual Compliance Report - Cycle 4 Projects
In Contract Development and not Included for Recovery

Project No.	Name	Total Amount Awarded	Status	Forecast 2017	Forecast 2018	Forecast 2019	Forecast 2020
EP4-3	Mnpls Public School - Edison HS	917,250	Negotiating	0	0	917,250	0
EP4-42	Aurora St. Anthony	398,000	Negotiating	0	398,000	0	0
EP4-44	Region 5 Dev Comm	1,993,659	Negotiating	0	0	1,993,659	0
Total Energy Production		3,308,909		0	398,000	2,910,909	0
RD4-5	Univ of Florida	1,109,538	Negotiating	0	479,460	308,213	321,865
Total Research and Development		1,109,538		0	479,460	308,213	321,865
Total Cycle 4 Projects		4,418,447		0	877,460	3,219,122	321,865

RDF Use of Funds Summary (Grants Awarded)

Contract	Project Name	Grant	Type	Cycle	Renewable Category	Status	Scheduled Completion
AB-07	AnAerobics, Inc	\$1,300,000	EP	1	Biomass	complete	
AH-01	Crown Hydro	\$5,100,000	EP	1	Hydro	current	01/2020*
AS-05	MN Dept. of Commerce	\$1,150,000	EP	1	Solar	complete	
AS-06	Science Museum	\$100,000	EP	1	Solar	complete	
AW-03	Project Resource Corp	\$900,000	EP	1	Wind	complete	
AW-10	Pipestone Jasper School	\$752,835	EP	1	Wind	complete	
BB-03	Sebesta Blomberg	\$738,654	RD	1	Biomass	complete	
BB-06	Energy Performance Systems	\$266,508	RD	1	Biomass	complete	
BB-09	University of ND - Cofiring	\$444,478	RD	1	Biomass	complete	
BB-10	Community Power Corp.	\$638,635	RD	1	Biomass	complete	
BB-12	Univ of ND - SCR Performance	\$60,000	RD	1	Biomass	complete	
BW-06	Blattner and Sons	\$68,470	RD	1	Wind	complete	
CB-07	Colorado School of Mines	\$1,116,742	RD	1	Biomass	complete	
CB-08	Univ. of ND - SOFC	\$1,250,142	RD	1	Biomass	complete	
CS-05	NREL	\$934,628	RD	1	Solar	complete	
CW-02	Global Energy Concepts	\$75,000	RD	1	Wind	complete	
CW-06	University of Minnesota	\$654,309	RD	1	Wind	complete	
EP-26	Hilltop	\$1,200,000	EP	2	Wind	complete	
EP-34	Lower St. Anthony Falls	\$2,000,000	EP	2	Hydro	complete	
EP-39	St. Olaf	\$1,500,000	EP	2	Wind	complete	
EP-43	Mesaba/Excelsior Energy	\$10,000,000	EP	2	Innovative	complete	
EP-44	CMEC	\$2,000,000	EP	2	Biomass	complete	
EP-51	Diamond K Dairy	\$936,530	EP	2	Biomass	complete	
RD-22	Energy Conversion Devices	\$900,000	RD	2	Biomass	complete	
RD-26	Coaltec	\$450,000	RD	2	Biomass	complete	
RD-27	Rural Advantage	\$318,800	RD	2	Biomass	complete	
RD-29	University of Minnesota	\$299,284	RD	2	Biomass	complete	
RD-34	University of Florida	\$999,995	RD	2	Biomass	complete	
RD-38	Gas Technology Institute	\$861,860	RD	2	Biomass	complete	
RD-50	Energy Performance Systems	\$957,929	RD	2	Biomass	complete	
RD-56	University of Minnesota	\$858,363	RD	2	Biomass	complete	
RD-57	Windlogics	\$997,000	RD	2	Wind	complete	
RD-69	AURI	\$760,000	RD	2	Biomass	complete	
RD-72	Production Specialties	\$228,735	RD	2	Biomass	complete	
RD-78	Interphases Research	\$1,000,000	RD	2	Solar	complete	
RD-87	Global Energy Concepts	\$370,000	RD	2	Wind	complete	
RD-93	NREL - Inkjet Solar Cells	\$1,000,000	RD	2	Solar	complete	
RD-94	Center for Energy and the Environment	\$397,500	RD	2	Biomass	complete	
RD-107	NREL-Low Band Gap-Solar	\$1,000,000	RD	2	Solar	complete	
RD-110	CSET and Iowa State University	\$405,000	RD	2	Biomass	complete	
EP3 - 2	Merrick	\$735,000	EP	3	Solar	complete	
EP3 - 3	Best Power International	\$1,994,480	EP	3	Solar	complete	
EP3 - 10	Outland Renewable Energy	\$2,000,000	EP	3	Solar	complete	
EP3 - 11	City of Minneapolis	\$2,000,000	EP	3	Solar	complete	
EP3 - 12	freEner-g	\$1,488,922	EP	3	Solar	complete	

RDF Use of Funds Summary (Grants Awarded)

Contract	Project Name	Grant	Type	Cycle	Renewable Category	Status	Scheduled Completion
EP3 - 13	Minnesota Department of Natural Resources	\$894,000	EP	3	Solar	complete	
RD3 - 1	University of Minnesota	\$992,989	RD	3	Biomass	complete	
RD3 - 2	SarTec Corporation	\$350,000	RD	3	Biofuel	complete	
RD3 - 4	Bepex International	\$924,671	RD	3	Biomass	complete	
RD3 - 12	Xcel Energy	\$1,000,000	RD	3	Wind	complete	
RD3 - 21	Northern Plains Power Technologies	\$493,608	RD	3	Solar	complete	
RD3 - 23	University of Minnesota	\$819,159	RD	3	Biomass	complete	
RD3 - 25	University of Minnesota	\$732,032	RD	3	Solar	complete	
RD3 - 28	University of Minnesota	\$979,082	RD	3	Biomass	complete	
RD3 - 42	University of Minnesota	\$999,999	RD	3	Wind	complete	
RD3 - 53	Interphases Solar	\$1,000,000	RD	3	Solar	complete	
RD3 - 58	West Central Telephone Association	\$137,000	RD	3	Wind/Solar	complete	
RD3 - 66	University of North Dakota	\$999,065	RD	3	Biomass	complete	
RD3 - 68	University of North Dakota	\$970,558	RD	3	Biomass	complete	
RD3 - 69	Minnesota Valley Alfalfa Producers	\$1,000,000	RD	3	Biomass	complete	
RD3 - 71	University of North Dakota	\$999,728	RD	3	Biomass	complete	
RD3 - 77	Coaltec Energy USA	\$1,000,000	RD	3	Biomass	current	4/2019*
EP4-3	Minneapolis Public School	\$917,250	EP	4	Solar	negotiations	TBD
EP4-5	Best Power Intl - SSND	\$900,000	EP	4	Solar	complete	
EP4-6	Best Power Intl - St. John's	\$172,213	EP	4	Solar	complete	
EP4-7	Anoka Ramsey Community College	\$828,900	EP	4	Solar	cancelled	
EP4-11	Innovative Power Systems	\$1,850,000	EP	4	Solar	current	4/1/2018
EP4-13	Metropolitan Airports Commission	\$2,022,507	EP	4	Solar	complete	
EP4-15	Minnesota Renewable Energy Society	\$2,661,320	EP	4	Solar	current	12/1/2019*
EP4-20	Target Corporation	\$583,513	EP	4	Solar	current	10/1/2017
EP4-21	Farmamerica	\$600,000	EP	4	solar/wind	cancelled	
EP4-22	Minneapolis Park & Recreation Board	\$969,741	EP	4	solar	current	12/28/2017
EP4-24	Bergey Windpower	\$1,106,600	EP	4	wind	current	11/24/2017
EP4-29	Dragonfly Solar	\$1,650,000	EP	4	solar	current	5/8/2018
EP4-34	City of St Paul	\$555,750	EP	4	solar	current	6/9/2017
EP4-41	City of Hutchinson	\$958,369	EP	4	solar	complete	
EP4-42	Aurora St. Anthony	\$398,000	EP	4	solar	negotiations	TBD
EP4-43	Cornerstone Group	\$310,310	EP	4	solar	cancelled	
EP4-44	Region 5 Dev. Commission	\$1,993,659	EP	4	solar	negotiations	TBD
EP4-48	Oak Leaf Energy	\$2,000,000	EP	4	solar	complete	
RD4-1	Univ. of Minn - Gasification	\$999,999	RD	4	Biomass	current	1/4/2020
RD4-2	University of Minnesota - Dairy	\$982,408	RD	4	solar/wind	current	6/2/2018
RD4-5	University of Florida	\$1,109,538	RD	4	Biomass	negotiations	TBD
RD4-7	Interphases Solar	\$1,000,000	RD	4	solar	current	1/12/2020
RD4-8	City of Red Wing	\$1,999,500	RD	4	biomass	current	2/6/2021
RD4-11	University of Minnesota - Torrefaction	\$1,899,449	RD	4	biomass	current	10/3/2018
RD4-12	University of Minnesota - Noise	\$625,102	RD	4	wind	current	9/2/2018
RD4-13	University of Minnesota - VWS	\$1,391,684	RD	4	wind	current	6/2/2020
RD4-14	Barr Engineering	\$161,081	RD	4	wind	current	11/16/2018
HE4-1	Minnesota State Colleges & Universities	\$5,500,000	HE	4	all types	current	4/11/2019

RDF Use of Funds Summary (Grants Awarded)

Contract	Project Name	Grant	Type	Cycle	Renewable Category	Status	Scheduled Completion
HE4-2	University of St Thomas	\$2,157,215	HE	4	all types	current	8/12/2018
HE4-3	University of Minnesota	\$3,000,000	HE	4	all types	current	8/20/2018

* Based on information from project sponsor and subject to change.

RDF Administrative Costs as Percent of Total Grant Payments

	2004 - 2012	2013	2014	2015	2016	Through 2016
Total RDF Grant Payments	\$ 50,761,476	\$ 3,142,992	\$ 680,843	\$ 2,809,764	\$ 10,917,325	\$ 68,312,399
Administrative Expenses	\$ 1,830,472	\$ 178,458	\$ 24,781	\$ 15,741	\$ 25,343	\$ 2,074,794
Ratio of Adm. Expenses	3.6%	5.7%	3.6%	0.6%	0.2%	3.0%

	2004 - 2012	2013	2014	2015	2016	2017 Fcst*	2018 Fcst*	Through 2018
Total RDF Grant Payments	\$ 50,761,476	\$ 3,142,992	\$ 680,843	\$ 2,809,764	\$ 10,917,325	\$ 6,304,976	\$ 8,273,691	\$ 82,891,066
Administrative Expenses	\$ 1,830,472	\$ 178,458	\$ 24,781	\$ 15,741	\$ 25,343	\$ 119,776	\$ 30,300	\$ 2,224,870
Ratio of Adm. Expenses	3.6%	5.7%	3.6%	0.6%	0.2%	1.9%	0.4%	2.7%

* 2017 and 2018 Grant Payments reflect only those included for recovery.

RENEWABLE DEVELOPMENT FUND

Annual Compliance Report
 Report of Fund Liability and Unencumbered Balance
 Through December 31, 2016

	Up to 2008	2008	2009	2010	2011	2012	2013	2014	2015	2016	2003-2016	Total Amount of Awards	Grant Awards not Utilized	Unencumb Grant
1. RDF Grant Payments (a+b+c)	\$ 28,599,257	\$ 3,238,627	\$ 7,533,073	\$ 8,326,383	\$ 6,943,768	\$ 1,902,837	\$ 3,142,992	\$ 680,843	\$ 2,809,764	\$ 10,917,325	\$ 74,094,868	\$ 107,066,638	\$ 2,684,951	\$104,381,687
Cycle 1 - EP	\$ 5,541,426	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,541,426	\$ 9,302,835	\$ 200,000	\$ 9,102,835
Cycle 2 - EP	\$ 3,836,360	\$ (520,000)	\$ 242,730	\$ 40,910	\$ 1,500,000	\$ 0	\$ 344,175	\$ 592,355	\$ -	\$ -	\$ 6,036,530	\$ 7,636,530	\$ 1,600,000	\$ 6,036,530
Cycle 3 - EP	\$ -	\$ 735,000	\$ 205,090	\$ 3,161,687	\$ 2,400,806	\$ 476,376	\$ 2,118,409	\$ -	\$ -	\$ -	\$ 9,097,368	\$ 9,112,402	\$ 15,034	\$ 9,097,368
Cycle 4 - EP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,072,213	\$ 5,425,476	\$ 6,497,689	\$ 18,738,922	\$ -	\$ 18,738,922
a. Total Cat A	\$ 9,377,786	\$ 215,000	\$ 447,820	\$ 3,202,597	\$ 3,900,806	\$ 476,376	\$ 2,462,584	\$ 592,355	\$ 1,072,213	\$ 5,425,476	\$ 27,173,013	\$ 44,790,689	\$ 1,815,034	\$ 42,975,655
Cycle 1 - R&D	\$ 6,021,090	\$ 62,748	\$ 46,620	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,130,458	\$ 6,247,566	\$ 117,108	\$ 6,130,458
Cycle 2 - R&D	\$ 7,493,198	\$ 2,470,103	\$ 939,061	\$ 201,306	\$ -	\$ 197,741	\$ 31,619	\$ -	\$ -	\$ -	\$ 11,333,028	\$ 11,804,466	\$ 471,438	\$ 11,333,028
Cycle 3 - R&D	\$ -	\$ 100,000	\$ 2,928,537	\$ 4,191,473	\$ 3,042,962	\$ 1,228,720	\$ 648,789	\$ 88,488	\$ 737,551	\$ -	\$ 12,966,521	\$ 13,397,891	\$ 281,370	\$ 13,116,521
Cycle 4 - R&D	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ 5,491,849	\$ 6,491,849	\$ 20,826,026	\$ -	\$ 20,826,026
b. Total Cat B	\$ 13,514,288	\$ 2,632,851	\$ 3,914,218	\$ 4,392,779	\$ 3,042,962	\$ 1,426,461	\$ 680,408	\$ 88,488	\$ 1,737,551	\$ 5,491,849	\$ 36,921,855	\$ 52,275,949	\$ 869,917	\$ 51,406,032
c. Excelsior	\$ 5,707,182	\$ 390,776	\$ 3,171,035	\$ 731,007	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000	\$ 10,000,000	\$ -	\$ -
2. Total Administrative Costs	\$ 1,306,243	\$ 225,705	\$ 118,052	\$ 147,234	\$ 139,629	\$ 101,533	\$ 178,458	\$ 24,781	\$ 15,741	\$ 25,343	\$ 2,282,718			
3. Total Other Legislative Mandates	\$ 33,508,849	\$ 16,673,693	\$ 16,744,987	\$ 15,619,529	\$ 14,729,047	\$ 13,325,940	\$ 9,531,960	\$ 21,460,068	\$ 20,684,911	\$ 18,941,736	\$ 181,220,720			
University of Minnesota/IREE	\$ 10,000,000	\$ -	\$ 2,500,000	\$ 5,000,000	\$ 5,000,000	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000,000			
REPI - Wind	\$ 23,371,385	\$ 9,011,870	\$ 9,465,152	\$ 9,239,984	\$ 8,511,746	\$ 8,494,153	\$ 6,950,346	\$ 5,316,377	\$ 3,496,069	\$ 1,719,730	\$ 85,576,812			
REPI - Biogas	\$ 174,953	\$ 36,823	\$ 292,335	\$ 392,045	\$ 522,260	\$ 523,737	\$ 462,556	\$ 380,557	\$ 1,156,891	\$ 1,111,489	\$ 5,053,645			
AURI Biofuel	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000			
MPCA Deposit	\$ (4,000,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,000,000)			
Next Generation Initiative	\$ 3,812,511	\$ 7,625,000	\$ 3,812,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,250,011			
REP Administered by DOC	\$ -	\$ -	\$ 675,000	\$ 987,500	\$ 312,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,975,000			
Solar Rebates, MN Made (10)	\$ -	\$ -	\$ -	\$ -	\$ 382,541	\$ 1,808,050	\$ 2,119,059	\$ 3,686,335	\$ 3,950,536	\$ 3,513,790	\$ 15,460,312			
DOC Solar Incentive Program (11)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,021,295	\$ 12,014,671	\$ 12,073,296	\$ 36,109,263			
Solar Rewards (12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,503	\$ 66,743	\$ 523,430			\$ 645,677
Total RDF Cost (1+2+3)	\$ 63,414,348	\$ 20,138,025	\$ 24,396,112	\$ 24,093,145	\$ 21,812,445	\$ 15,330,310	\$ 12,853,411	\$ 22,165,691	\$ 23,510,415	\$ 29,884,404	\$ 257,598,306			

As of December 31, 2016

1. Total Amount Credited to RDF	\$ 301,350,000
2. Total RDF Payments	\$ 257,598,306
3. Total Amount of Awards	\$ 104,381,687
4. Amount of RDF Grants Paid	\$ 74,094,868

Unencumbered

Cumulative Balance \$ 13,464,874

(1-2-3+4)

RENEWABLE DEVELOPMENT FUND

Compare MN State Sales Allocator based on RDF and FCA Sales

All Sales in mWh

	a	b	c	d	e=b+c+d	f=e/a	g	h	i	j	k=j/i	l=g-a
	RDF Total	MN State	ND State	SD State	RDF NSPM	RDF MN	FCA Total	FCA MN	FCA Total System	FCA MN	FCA MN	Total
	System	Calendar	Calendar	Calendar	Calendar	State Sales	System	State	Cal Mo	State Cal Mo	State Sales	System
	Calendar	Calendar	Calendar	Calendar	Calendar	State Sales	Calendar	Calendar	Cal Mo	State Sales	State Sales	Sales
	Month Sales	Month	Month	Month	Month Sales	Allocator	Month Sales	Month Sales	Windsources	Windsources	Allocator	Difference
Sep-16	3,397,734	2,527,117	168,261	176,305	2,871,683	84.52%	3,397,735	2,527,118	3,384,923	2,514,306	74.28%	1
Oct-16	3,268,746	2,401,420	170,938	161,422	2,733,780	83.63%	3,268,744	2,401,420	3,255,727	2,388,403	73.36%	(2)
Nov-16	3,100,321	2,258,691	171,592	155,574	2,585,857	83.41%	3,100,321	2,258,691	3,088,510	2,246,880	72.75%	0
Dec-16	3,551,674	2,574,683	211,757	180,211	2,966,652	83.53%	3,551,674	2,574,683	3,538,653	2,561,662	72.39%	0
Jan-17	3,573,909	2,574,622	219,558	184,962	2,979,142	83.36%	3,573,908	2,574,622	3,558,421	2,559,135	71.92%	(1)
Feb-17	3,010,081	2,180,164	178,098	146,531	2,504,793	83.21%	3,010,081	2,180,164	2,996,964	2,167,047	72.31%	0
Mar-17	3,365,902	2,427,018	200,867	171,541	2,799,426	83.17%	3,365,902	2,427,018	3,351,575	2,412,691	71.99%	(0)
Apr-17	2,933,011	2,134,119	153,181	142,319	2,429,618	82.84%	2,933,013	2,134,119	2,920,500	2,121,606	72.65%	2
May-17	3,191,433	2,328,988	166,508	162,989	2,658,485	83.30%	3,191,433	2,328,988	3,177,863	2,315,418	72.86%	(0)
Jun-17	3,609,452	2,662,673	174,269	202,985	3,039,927	84.22%	3,609,453	2,662,673	3,593,374	2,646,594	73.65%	1
Jul-17	3,956,719	2,928,623	194,586	231,646	3,354,855	84.79%	3,956,718	2,928,623	3,940,025	2,911,930	73.91%	(1)
Aug-17	3,632,912	2,673,790	183,334	186,799	3,043,924	83.79%	3,632,912	2,673,791	3,611,933	2,652,812	73.45%	0

- a Total System Sales as reported by Xcel Energy in RDF Rider filing
- b Minnesota State Electric sales, as reported by Xcel Energy
- c North Dakota State Electric sales, as reported by Xcel Energy
- d South Dakota State Electric sales, as reported by Xcel Energy
- e Sum of Minnesota, North Dakota, and South Dakota sales (know as "NSPM"); corresponds to NSPM sales used to create MN State Sales Allocator in RDF Rider filing
- f Ratio of NSPM to Total System Electric sales; corresponds to the MN State Sales Allocator in the RDF Rider filing
- g Total System Sales as reported by Xcel Energy in monthly FCA filings
- h Minnesota State Electric sales, as reported by Xcel Energy in monthly FCA filings
- i Total System Sales as reported by Xcel Energy in monthly FCA filings less Windsources sales not included in FCA calculation
- j Minnesota State Electric sales, as reported by Xcel Energy in monthly FCA filings less Windsources sales not included in FCA calculation
- k Ratio of NSPM to Total System Electric sales as reported in monthly FCA filings
- l Comparison of Total System Sales reported in RDF Rider filing and monthly FCA filings; differences due to rounding

RENEWABLE DEVELOPMENT FUND

Compare Actual RDF Rate Rider Revenues to Revenues Calculated using FCA sales

Month	Ride r	CRS Tariff	CRS Tariff Description	Business Unit	Object	a kWh Billing Month Volume	b Amount	c = b/a Average Rider Rate	Description	d FCA Sales	e=a-d Difference	f=d*e Revenue	g=b-f Difference
									Total MN Cal Mo Sales	3,167,886			
									Less: Wholesale	(641,426)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	658			
									Less: Windsource	(12,812)			
Sep-16	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	782,626,522	705,904	0.000902	Total MN Cal Mo Retail	2,514,306			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,958,350,337	1,766,427	0.000902	Less: Net Unbilled	230,050			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	9,359,722	8,442	0.000902	Add: Windsource	12,812			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	6,068,792	5,474	0.000902	Less: Interdepartmental	(658)			
						2,756,405,373	2,486,247.32		Total MN Bill Mo Retail	2,756,510	(105)	2,486,372.02	(125)
									Total MN Cal Mo Sales	3,005,025			
									Less: Wholesale	(603,701)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	96			
									Less: Windsource	(13,017)			
Oct-16	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	592,314,604	534,274	0.000902	Total MN Cal Mo Retail	2,388,403			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,742,420,061	1,571,658	0.000902	Less: Net Unbilled	(48,238)			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	12,318,745	11,112	0.000902	Add: Windsource	13,017			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	6,032,744	5,442	0.000902	Less: Interdepartmental	(96)			
						2,353,086,154	2,122,485.30		Total MN Bill Mo Retail	2,353,086	-	2,122,483.57	2
									Total MN Cal Mo Sales	2,928,536			
									Less: Wholesale	(669,911)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	66			
									Less: Windsource	(11,811)			
Nov-16	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	559,323,434	504,496	0.000902	Total MN Cal Mo Retail	2,246,880			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,598,773,911	1,442,094	0.000902	Less: Net Unbilled	(84,733)			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	11,135,323	10,042	0.000902	Add: Windsource	11,811			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	4,658,790	4,202	0.000902	Less: Interdepartmental	(66)			
						2,173,891,458	1,960,834.50		Total MN Bill Mo Retail	2,173,892	(1)	1,960,850.58	(16)
									Total MN Cal Mo Sales	3,511,128			
									Less: Wholesale	(937,820)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	1,375			
									Less: Windsource	(13,021)			
Dec-16	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	673,813,476	607,779	0.000902	Total MN Cal Mo Retail	2,561,662			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,754,429,504	1,582,500	0.000902	Less: Net Unbilled	(125,677)			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	14,446,592	13,030	0.000902	Add: Windsource	13,021			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	4,941,420	4,457	0.000902	Less: Interdepartmental	(1,375)			
						2,447,630,992	2,207,766.59		Total MN Bill Mo Retail	2,447,631	-	2,207,763.16	3
									Total MN Cal Mo Sales	3,296,153			

RENEWABLE DEVELOPMENT FUND

Compare Actual RDF Rate Rider Revenues to Revenues Calculated using FCA sales

Month	Ride r	CRS Tariff	CRS Tariff Description	Business Unit	Object	a kWh Billing Month Volume	b Amount	c = b/a Average Rider Rate	Description	d FCA Sales	e=a-d Difference	f=d*e Revenue	g=b-f Difference
									Less: Wholesale	(721,631)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	100			
									Less: Windsource	(15,487)			
Jan-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	891,753,074	855,298	0.000959	Total MN Cal Mo Retail	2,559,135			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,883,201,732	1,783,485	0.000947	Less: Net Unbilled	219,272			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	13,098,082	12,262	0.000936	Add: Windsource	15,487			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	5,844,831	5,442	0.000931	Less: Interdepartmental	(100)			
						2,793,897,718	2,656,488.17		Total MN Bill Mo Retail	2,793,794	104	2,656,389.55	99
									Total MN Cal Mo Sales	2,811,427			
									Less: Wholesale	(631,868)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	605			
									Less: Windsource	(13,117)			
Feb-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	649,204,269	670,960	0.001034	Total MN Cal Mo Retail	2,167,047			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,587,441,358	1,635,057	0.001030	Less: Net Unbilled	74,491			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	12,601,604	12,909	0.001024	Add: Windsource	13,117			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	4,802,086	4,915	0.001024	Less: Interdepartmental	(605)			
						2,254,049,318	2,323,841.70		Total MN Bill Mo Retail	2,254,050	(1)	2,323,842.40	(1)
									Total MN Cal Mo Sales	3,179,980			
									Less: Wholesale	(753,484)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	522			
									Less: Windsource	(14,327)			
Mar-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	699,082,106	722,798	0.001034	Total MN Cal Mo Retail	2,412,691			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,802,891,136	1,863,995	0.001034	Less: Net Unbilled	92,515			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	11,764,222	12,151	0.001033	Add: Windsource	14,327			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	5,366,487	5,549	0.001034	Less: Interdepartmental	(522)			
						2,519,103,950	2,604,492.59		Total MN Bill Mo Retail	2,519,011	93	2,604,657.37	(165)
									Total MN Cal Mo Sales	2,462,643			
									Less: Wholesale	(329,005)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	481			
									Less: Windsource	(12,513)			
Apr-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	7000000000008	550,792,029	569,516	0.001034	Total MN Cal Mo Retail	2,121,606			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	7000000000008	1,552,158,327	1,604,949	0.001034	Less: Net Unbilled	(15,849)			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	7000000000008	10,550,959	10,895	0.001033	Add: Windsource	12,513			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	7000000000008	4,287,606	4,433	0.001034	Less: Interdepartmental	(481)			
						2,117,788,921	2,189,793.58		Total MN Bill Mo Retail	2,117,789	-	2,189,793.83	(0)
									Total MN Cal Mo Sales	2,859,857			
									Less: Wholesale	(531,351)			
									Less: Net Wholesale Unbilled	-			

RENEWABLE DEVELOPMENT FUND

Compare Actual RDF Rate Rider Revenues to Revenues Calculated using FCA sales

Month	Ride r	CRS Tariff	CRS Tariff Description	Business Unit	Object	a kWh Billing Month Volume	b Amount	c = b/a Average Rider Rate	Description	d FCA Sales	e=a-d Difference	f=d*e Revenue	g=b-f Difference
									Add: Interdepartmental	482			
									Less: Windsource	(13,570)			
May-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	700000000008	561,696,089	580,790	0.001034	Total MN Cal Mo Retail	2,315,418			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	700000000008	1,692,092,626	1,749,636	0.001034	Less: Net Unbilled	(61,198)			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	700000000008	8,467,403	8,757	0.001034	Add: Windsource	13,570			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	700000000008	5,051,383	5,223	0.001034	Less: Interdepartmental	(482)			
						2,267,307,501	2,344,405.32		Total MN Bill Mo Retail	2,267,308	-	2,344,396.47	9
									Total MN Cal Mo Sales	3,064,335			
									Less: Wholesale	(403,465)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	1,803			
									Less: Windsource	(15,564)			
									Less: Renewable*Connect	(515)			
Jun-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	700000000008	727,539,841	752,256	0.001034	Total MN Cal Mo Retail	2,646,594			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	700000000008	1,822,285,997	1,884,278	0.001034	Less: Net Unbilled	(98,464)			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	700000000008	7,371,780	7,623	0.001034	Add: Windsource	15,564			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	700000000008	5,207,232	5,384	0.001034	Add: Renewable*Connect	515			
						2,562,404,850	2,649,540.72		Less: Interdepartmental	(1,803)			
									Total MN Bill Mo Retail	2,562,406	(1)	2,649,527.80	13
									Total MN Cal Mo Sales	3,350,093			
									Less: Wholesale	(422,131)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	661			
									Less: Windsource	(15,772)			
									Less: Renewable*Connect	-921			
Jul-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	700000000008	812,337,820	839,951	0.001034	Total MN Cal Mo Retail	2,911,930			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	700000000008	1,875,052,760	1,938,800	0.001034	Less: Net Unbilled	(226,619)			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	700000000008	7,418,926	7,672	0.001034	Add: Windsource	15,772			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	700000000008	7,047,789	7,288	0.001034	Add: Renewable*Connect	921			
						2,701,857,295	2,793,709.90		Less: Interdepartmental	(661)			
									Total MN Bill Mo Retail	2,701,343	514	2,793,188.66	521
									Total MN Cal Mo Sales	3,072,333			
									Less: Wholesale	(398,622)			
									Less: Net Wholesale Unbilled	-			
									Add: Interdepartmental	80			
									Less: Windsource	(17,535)			
									Less: Renewable*Connect	(3,444)			
Aug-17	RDF	6447	MNRRDF:[AResource Adjustment	4000005	700000000008	894,244,735	924,646	0.001034	Total MN Cal Mo Retail	2,652,812			
	RDF	6448	MNCRDF:[AResource Adjustment	4000055	700000000008	1,971,388,790	2,038,410	0.001034	Less: Net Unbilled	207,404			
	RDF	6449	MNPRDF:[AResource Adjustment	4000155	700000000008	8,372,924	8,658	0.001034	Add: Windsource	17,535			
	RDF	7295	MNMRDF:[AResource Adjustment	4000255	700000000008	7,200,588	7,446	0.001034	Add: Renewable*Connect	3444			
						2,881,207,037	2,979,158.88		Less: Interdepartmental	(80)			
									Total MN Bill Mo Retail	2,881,115	92	2,979,072.91	86

RENEWABLE DEVELOPMENT FUND

Rider Calculation

Footnotes for All Schedules

Footnote Number	Footnote Description
1	Administration costs recovered from Minnesota customers are equal to the Total Administrative costs multiplied by the MN Admin Cost Recovery Percentage. The MN Admin Cost Recovery Percentage for the forecast period is based on the ratio of EP and R&D Grant Awards in Cycle 4.
2	Mandated by the Minnesota Legislature in 2003 for the Initiative for Renewable Energy and the Environment
3	Mandated by the Minnesota Legislature in 2003 for Renewable Energy Production Incentive payments
4	Mandated by the Minnesota Legislature in 2003 for the Excelsior Energy project to be paid over 5 years
5	Mandated by the Minnesota Legislature in 2005 for the Agricultural Utilization Research Institute
6	Mandated by the Minnesota Legislature in 2005 requiring the Minnesota Pollution Control Agency to make a deposit to the RDF account by 2007
7	Mandated by the Minnesota Legislature in 2009 for a payment in the amount of \$15.25 million over two fiscal years for the Next Gen Initiative
8	Mandated by the Minnesota Legislature in 2009 to pay \$20 million to IREE over four years. In 2011, the Minnesota legislature eliminated the final year payment of \$5 million, reducing the total to \$15 million
9	Mandated by the Minnesota Legislature in 2009 for a payment in the amount of \$1.975 million over two fiscal years for projects and programs administered by the DOC
10	Mandated by the Minnesota Legislature in 2010 to pay \$21 million over five years for Minnesota Bonus Solar Rebates
11	Made in Minnesota Solar Energy Production Incentive Account - A ten year, \$15 million/year "Made In MN" incentive fund from 2014 – 2023 to be administered by the DOC. About \$3 million/year will come from CIP funds and the balance of \$12 million/year is from the RDF. Expected total obligation from the RDF is \$120 million. (Statute
12	Solar Energy Incentive Program - A five year, \$5 million/year solar production incentive program from 2014 – 2018 with payouts over ten years (approximately 2015 – 2028). Total obligation of \$25 million from the RDF. Sign up and installation in 2014 with first payments to begin in 2015. RDF payment expected to peak at \$2.5 million/year by 2019. Sign-up estimated at \$.5 million/year.
13	In 2013, the \$5 million earmarked for future pilot investments was reallocated to Cycle 4 Grant awards.

Redline

Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RENEWABLE DEVELOPMENT FUND RIDER

Section No. 5

~~18th~~19th Revised Sheet No. 143

APPLICATION

Applicable to bills for electric service provided under the Company's retail rate schedules.

RIDER

There shall be included on each customer's monthly bill a Renewable Development Fund charge that shall be the applicable Renewable Development Fund factor multiplied by the customer's monthly kWh electric consumption.

DETERMINATION OF RENEWABLE DEVELOPMENT FUND FACTOR

The applicable Renewable Development Fund factor shall be the quotient obtained by dividing the annual Renewable Development Fund Tracker amount by the annual forecasted kWh sales. The factor may be adjusted annually with approval of the Minnesota Public Utilities Commission.

Residential	\$0.001034 <u>\$0.001522</u> per kWh
Commercial	\$0.001034 <u>\$0.001522</u> per kWh

R
R

Recoverable Renewable Development Fund Expense

All costs appropriately charged to the Renewable Development Fund Tracker account shall be eligible for recovery through this Rider, and all revenues received from the Renewable Development Fund portion of the Resource Adjustment shall be credited to the Renewable Development Fund Tracker account.

PROVISION OF FORECAST DATA

To assist commercial and industrial customers in budgeting and managing their energy costs, the Company will annually make available on October 1st a 24-month forecast of the Renewable Development Fund Factor applicable to demand billed C&I customers under this Rider. The forecast period begins January 1st of the following year. This forecast will be provided only to customers who have signed a protective agreement with the Company.

Date Filed:	11-02-15 <u>09-29-17</u>	By:	Christopher B. Clark	Effective Date:	10-01-17
			President, Northern States Power Company, a Minnesota corporation		
Docket No.	E002/ GR-15-826 <u>M-17-</u>			Order Date:	06-12-17

Clean

Northern States Power Company, a Minnesota corporation
 Minneapolis, Minnesota 55401

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

RENEWABLE DEVELOPMENT FUND RIDER

Section No. 5
 19th Revised Sheet No. 143

APPLICATION

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Commercial	\$0.001522 per kWh

R

R

Recoverable Renewable Development Fund Expense

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To assist commercial and industrial customers in budgeting and managing their energy costs, the Company will annually make available on October 1st a 24-month forecast of the Renewable Development Fund Factor applicable to demand billed C&I customers under this Rider. The forecast period begins January 1st of the following year. This forecast will be provided only to customers who have signed a protective agreement with the Company.

Date Filed: 09-29-17

By: Christopher B. Clark

Effective Date:

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/M-17-

Order Date:

CERTIFICATE OF SERVICE

I, Carl Cronin, 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

Xcel Energy Misc. Electric Service List

Dated this 29th day of September 2017

/s/

Carl Cronin
Regulatory Administrator

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Aafedt	daafedt@winthrop.com	Winthrop & Weinstine, P.A.	Suite 3500, 225 South Sixth Street Minneapolis, MN 554024629	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
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