

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	Attachment 2
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: January 1, 2017 - December 31, 2017
Total Retail Sales to Minnesota Customers and Renewable Energy Certificates Required to be Retired for RENEWABLE ENERGY STANDARD Compliance	

Retail Sales Total	9,796,584
RES Percentage Obligation	17%
RECs Required to be Retired	1,665,420
Actual RECs Retired	1,665,420

Enter current reporting year
data.

Utility ID #	Utility	Retail Sales Amount (MWh)	Notes
68	Minnesota Power Co.	9,796,584	MN Retail Sales by reporting utility

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	Attachment 3
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: January 1, 2017 - December 31, 2017
GREEN PRICING Program Sales	

TOTAL GREEN PRICING Sales (MWh)	1,213
RECS retired for GREEN PRICING programs	1,213

List the cumulative retail sales of green pricing electricity, including utility-managed community solar, and the number of customers as of December 31, 2017.						
Utility ID # (on Worksheet 1)	Utility Name	Program Name	No. of Program Customers	Program Sales (MWh)	Retail Rate (\$/kWh)	Notes
68	Minnesota Power Co	WindSense	446	1,213		MN Retail Sales by reporting utility

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	Attachment 4
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: January 1, 2017 - December 31, 2017
Renewable Energy Certificate Retirements for Renewable Energy Standards and Green Pricing Programs	

Renewable Energy Standard REC Retirement Account Name:	2017 Minnesota Power MN REO/RES Compliance
Green Pricing REC Retirement Account Name:	2017 Minnesota Power Green Pricing

Total RECS			1,665,420	1,213	1 REC = 1 MWh
			RECS retired for		
			RENEWABLE ENERGY STANDARD compliance	RECS retired for GREEN PRICING programs	NOTES
MRETS ID	MRETS Generator Facility Name	Generator Fuel Type			
M226	Chandler Wind Farm - Moulton 290/Cha	Wind		1,213	
M641	Bison Wind - Bison Wind	Wind	961,613		
M648	Blanchard Hydro - Blanchard Hydro 123	Hydroelectric Water	78,417		
M378	Fond Du Lac Hydro - Fond Du Lac Hydro	Hydroelectric Water	18,054		
M428	Hibbard Energy Center - Hibbard 3	Blomass, Coal, Natural	244		
M518	Hibbard Energy Center - Hibbard 4	Blomass, Coal, Natural	3,878		
M407	Knife Falls Hydro - Knife Falls Hydro	Hydroelectric Water	6,881		
M302	Laurie River 1 - Laurie River 1	Hydroelectric Water	82		
M303	Laurie River 2 - Laurie River 2	Hydroelectric Water	89		
M409	Little Falls Hydro Station - Little Falls Hyd	Hydroelectric Water	30,140		
M305	McArthur Falls - McArthur Falls	Hydroelectric Water	785		
M541	Oliver Wind 12 - Oliver County Wind 12	Wind	321,556		
M410	Pillager Hydro Station - Pillager Hydro	Hydroelectric Water	9,399		
M304	Pine Falls - Pine Falls	Hydroelectric Water	1,487		
M307	Pointe du Bois - Pointe du Bois	Hydroelectric Water	747		
M412	Prairie River Hydro Station - Prairie River	Hydroelectric Water	1,677		
M429	Rapids Energy Center - Rapids Energy Ce	Coal, Natural Gas, Bion	23,451		
M422	Rapids Energy Center - Rapids Energy Ce	Coal, Natural Gas, Bion	45,945		
M414	Rapids Energy Center - Rapids Energy Ce	Hydroelectric Water	3,159		
M271	SAPPI Cloquet Turb Genr #5 - Cloquet En	Blomass, Natural Gas	23,399		
M418	Scanlon Hydro Station - Scanlon Hydro	Hydroelectric Water	4,967		
M306	Slave Falls - Slave Falls	Hydroelectric Water	1,047		
M419	Sylvan Hydro Station - Sylvan Hydro	Hydroelectric Water	10,358		
M480	Tac Ridge Wind - Taconite Ridge Wind	Wind	62,742		
M924	Thomson Hydro - Thomson Hydro	Hydroelectric Water	35,641		
M310	Wing River - Wing River	Wind	4,176		
M420	Winton Hydro Station - Winton Hydro	Hydroelectric Water	15,486		

5.E.3(ii) Efforts taken to meet the objective and standards

and wholesale electric sales. With the addition of Nobles 2 Wind Project in 2020, the renewable portion of Minnesota Power's retail energy supply increases to over 35 percent of its projected supply, well positioned to comply with the standard for 2025 and beyond.

Following the passage of the 2013 SES, Minnesota Power has developed a robust solar strategy consisting of the three pillars previously mentioned – customer, community and utility – an emphasis on solar to meet the SES, early action on the 10 MW Camp Ripley Project and a Community Solar Garden, that will be expanded to meet customer demand, combined with the 10 MW Blaine Project flexibility to meet this energy standard without the development of the entire 33 MW by 2020.

5.E.3(iii) Obstacles encountered or anticipated in meeting the objective or standards

Minnesota Power is committed to meeting Minnesota's RES and SES requirements. There are obstacles encountered with most plans, and the key is to search for potential solutions to the obstacles. The following table lists the obstacles encountered or anticipated in meeting the objective standard.

Obstacle	Impact	Resolution
Hydro	Minnesota Power knows of no new large hydro project sites in Minnesota. Even if sites existed, hydro development is realistically limited to expansions at existing impoundments due to a lack of available sites in Minnesota, and current Minnesota law does not allow renewable generation from hydro units of 100 MW or larger to apply towards Minnesota's RES.	Minnesota Power continues to evaluate innovative hydro generation development options and determine feasibility for these projects.
Biomass		

5.E.3(iv) Potential solutions to the obstacles

See Above: Obstacles encountered or anticipated in meeting the objective standard

5.G. List any renewable generation facilities expected to become operational during the upcoming year

Facility Name	Type	Capacity (MW)	Cap. Factor (%)	Expected Comm'l Operation Date

5.K. Identify efforts taken to adequately protect against undesirable economic impacts on ratepayers, including, but not limited to keeping customer's bills and the utility's rates as low as practicable, given regulatory and other constraints.

Minnesota Power has taken significant steps since 2005 to develop and implement a renewable plan that incorporates substantial cost effective wind energy into its supply mix and maximize the use of renewable energy. Current and planned projects, in addition to a sufficient bank of RECs, will enable Minnesota Power to meet the RES incremental percentage requirements, while being afforded the necessary flexibility to meet this energy standard without the development of the entire 33 MW by 2020. With a significant amount of wind energy in its energy mix, Minnesota Power is continually evaluating other renewable energy resource options and advancements in renewable energy technology.

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78 **Attachment 6**
Minnesota Department of Commerce: Docket No. E999/PR-02-1240 Reporting Period: **January 1, 2016 - December 31, 2017**
M-RETS RECs Bought and Sold
Ordering pt. 4C requires reporting REC sales & purchases for the 2 preceding calendar years

REC Purchases Total	0
REC Sales Total	0

Enter current reporting year data.

Wholesale REC Purchases	Wholesale REC Sales	PRICE	NOTES

Instructions

Minnesota Public Utilities Commission
Docket No. E999/PR-18-12
Docket No. E-999/M-18-78

Minnesota Department of Commerce
Docket No. E999/PR-02-1240

Renewable Energy Certificate Retirement Report for Renewable Energy Standards and Green Pricing Programs REC Retirement Compliance Reporting

Due: June 1st, 2018

For the Reporting Period:

January 1, 2017 - December 31, 2017*

*Exception for Worksheet A.6: **Ordering pt. 4C** requires reporting REC sales & purchases for the **2 preceding calendar years**.

Instructions

Note: items in red indicate changes in reporting from previous year

Complete the following worksheets and e-file in **Excel (XLS or XLSX)** format:

Worksheet 1, Utility Info

Worksheet 2, Renewable Energy Standard Retail Sales

Worksheet 3, Green Pricing Program Retail Sales

Worksheet 4, RES & Green Pricing REC Retirements

Worksheet 5, Biennial Compliance Reporting

Worksheet 6, RECs Bought and Sold During the Reporting Period

To e-file, login, or register, at: <https://www.edockets.state.mn.us/EFiling/home.jsp>

For directions on how to e-file, see: <http://www.commerce.state.mn.us/eDocFile/eFilingHelp.html>

For questions about Renewable Energy Certificate retirement or compliance with Renewable Energy Standards, contact Kelly Martone at 651-201-2245 or at kelly.martone@state.mn.us.

For questions about Green Pricing or about filling out this spreadsheet, send an email to: DG.Energy@state.mn.us.

For questions about e-filing, contact Karen Santori at 651-539-1530 or at karen.santori@state.mn.us.

