

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	<b>Attachment 5</b>
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: <b>January 1, 2016 - December 31, 2017</b>
<b>Biennial Compliance reporting</b>	
Please report the following items in compliance with the PUC May 28, 2013 Order in Docket No. E999/M-12-958	

Ordering Point

**4.A. & 5.H. The year through which the utility can maintain compliance with its current renewable portfolio\***

\*Include banked Renewable Energy Credits (RECs)

2039
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**4.B. & 5.I. Projected compliance for the current plus three (3) upcoming years. Include banked RECs.**

Year	Actual/Projected MN retail sales (MWh)	RES Req. (%)	RES Req. (MWh)	Projected Resources (MWh)	Projected Surplus/ (Deficit) (MWh)
2017	10,754,515	17%	2,505,833	8,116,135	5,610,302
2018	11,664,838	17%	1,983,023	7,397,447	5,414,424
2019	11,633,583	17%	1,977,710	7,176,702	5,198,992
2020	11,830,641	20%	2,011,209	8,275,270	6,264,061

Please note that 2017 RES Req. reflects actual RECs retired by Great River Energy for 2017 compliance and renewable commitments.

**5.E.2 & 5.F. Identify other State Renewable Standards or Objectives to which the utility is subject, and the percentage of renewable energy allocated to meet the renewable requirements.**

State	RES Req. (MWh)	RES Req. (%)	Percent of utility's total system renewable generation apportioned to this state (%)*
WI		6.64	0.50%

\*apportionment of renewable energy should reflect each state's percentage of the utility's total system sales.

**5.E.3 (i) The status of the utility's renewable energy mix relative to the objective & standards.**

Great River Energy is in compliance with all MN & WI statutory renewable energy requirements.
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**5.E.3(ii) Efforts taken to meet the objective and standards**

In addition to ownership and operation of the 24 MW Elk River Energy Recovery Station and a 258-kWac solar PV installation on-site in Maple Grove, Great River Energy purchases the output of 463 MW of wind resources, two biomass facilities, and various small-head hydro facilities in Manitoba. Great River Energy will add another 300 MW of purchased wind power to its portfolio in 2020. Great River Energy has met and exceeded the MN RES and expects to continue to exceed existing state standards going forward.
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**5.E.3(iii) Obstacles encountered or anticipated in meeting the objective or standards**

Increasing costs of wind energy contracts and transmission upgrades are potential obstacles, along with uncertainty of future transmission congestion and generation interconnection queue study processes.
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**5.E.3(iv) Potential solutions to the obstacles**

Great River Energy has addressed the obstacles in 5.E.3(iii) through robust resource planning processes, including risk analysis, in advance of investment decisions. Great River Energy has also mitigated future price risk by taking advantage of federal tax incentives.
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**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.**

Great River Energy has signed long-term power purchase agreements that utilize federal tax incentives. Great River Energy has also secured firm transmission service, when economic, to help offset transmission congestion impacts. Great River Energy continues to employ good planning and risk mitigation practices.
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## 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](mailto: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](mailto:DG.Energy@state.mn.us).

For questions about e-filing, contact Karen Santori at 651-539-1530 or at [karen.santori@state.mn.us](mailto:karen.santori@state.mn.us).

Renewable Energy Certificate Retirement Report for  
RENEWABLE ENERGY STANDARDS and GREEN PRICING PROGRAMS

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

Report Year: 2017	Date Submitted: May 29, 2018
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FILING UTILITY INFORMATION		CONTACT INFORMATION	
Company ID #	121	Contact Name	Tessa Haagenson
Company Name	Great River Energy	Contact Title	Principal Planning Analyst
Street Address Line 1	12300 Elm Creek Blvd	Contact Telephone	(763) 445-6121
Street Address Line 2		Contact E-Mail	<a href="mailto:thaagenson@greenergy.com">thaagenson@greenergy.com</a>
City	Maple Grove	COMMENTS/NOTES	
State	MN		
Zip Code	55369		

Filing for <b>RENEWABLE ENERGY STANDARDS</b> on behalf of:			
Utility Name	Utility Name	Utility Name	Utility Name
Agralite Cooperative	Lake Country Power	Todd Wadena Electric Coop	
Arrowhead Electric Coop, Inc	Lake Region Electric Coop	Wright-Hennepin Cooperative Electric Association	
Benco Electric Cooperative	McLeod Coop Power Assn	Willmar Municipal Utilities	
Brown Co Rural Electric Assn	Meeker Coop Light & Power Assn		
Connexus Energy	Mille Lacs Electric Coop		
Cooperative Light & Power	Minnesota Valley Electric Coop		
Crow Wing Coop Power & Light, Inc	Nobles Cooperative Electric		
Dakota Electric Assn	North Itasca Electric Co-op, Inc.		
East Central Energy	Redwood Electric Coop		
Federated Rural Electric Assn	Runestone Electric Assn		
Goodhue County Coop Electric Assn	South Central Electric Assn		
Itasca Mantrap Coop Electric Assn	Stearns Coop Electric Assn		
Kandiyohi Power Coop	Steele Waseca Coop Electric		

Filing for <b>GREEN PRICING PROGRAMS</b> on behalf of:			
Utility Name	Utility Name	Utility Name	Utility Name
Agralite Cooperative	Kandiyohi Power Coop	Steele Waseca Coop Electric	
Arrowhead Electric Coop, Inc	Lake Country Power	Todd Wadena Electric Coop	
Benco Electric Cooperative	Lake Region Electric Coop	Wright-Hennepin Cooperative Electric Association	
Brown Co Rural Electrical Assn	McLeod Coop Power Assn		
Connexus Energy	Meeker Coop Light & Power Assn		
Connexus Energy - ERMU	Mille Lacs Electric Coop		
Cooperative Light & Power	Minnesota Valley Electric Coop		
Crow Wing Coop Power & Light, Inc.	Nobles Cooperative Electric		
Dakota Electric Assn	North Itasca Electric Co-op, Inc.		
East Central Energy	Redwood Electric Coop		
Federated Rural Electric Assn	Runestone Electric Assn		
Goodhue County Coop Electric Assn	South Central Electric Assn		
Itasca Mantrap Coop Electric Assn	Stearns Coop Electric Assn		

Renewable Energy Certificate Retirement Report for  
RENEWABLE ENERGY STANDARDS and GREEN PRICING PROGRAMS

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

Retail Sales Total	10,754,515
RES Percentage Obligation	17%
RECs Required to be Retired	1,828,268
Actual RECs Retired	2,505,833

Enter current reporting year data.

Utility ID #	Utility	Retail Sales Amount (MWh)	Notes
1	Agralite Cooperative	117,367	Retail sales are based on GRE's wholesale sales to this Fixed Obligation
4	Arrowhead Electric Coop, Inc	71,935	
10	Benco Electric Cooperative	280,857	
6	Brown Co Rural Electrical Assn	94,853	
26	Connexus Energy	2,238,660	Includes all sales for resale of this cooperative
9	Cooperative Light & Power	99,797	
35	Crow Wing Coop Power & Light, Inc.	429,893	Retail sales are based on GRE's wholesale sales to this Fixed Obligation
15	Dakota Electric Assn	1,822,672	
16	East Central Energy	865,434	ECE retail sales amount excludes WI customer sales
40	Federated Rural Electric Assn	131,200	Retail sales are based on GRE's wholesale sales to this Fixed Obligation
43	Goodhue County Coop Electric Assn	93,479	
18	Itasca Mantrap Coop Electric Assn	188,763	
19	Kandiyohi Power Coop	128,327	Includes all sales for resale of this cooperative
14	Lake Country Power	638,522	Includes all sales for resale of this cooperative
59	Lake Region Electric Coop	365,102	
64	McLeod Coop Power Assn	150,504	
66	Meeker Coop Light & Power Assn	111,338	Retail sales are based on GRE's wholesale sales to this Fixed Obligation
21	Mille Lacs Electric Coop	194,108	
70	Minnesota Valley Electric Coop	538,373	Retail sales are based on GRE's wholesale sales to this Fixed Obligation
148	Nobles Cooperative Electric	124,984	Includes all sales for resale of this cooperative
79	North Itasca Electric Co-op, Inc.	50,524	Late adjustment to retail sales figures; 2017 retail sales of 50,524

Renewable Energy Certificate Retirement Report for  
RENEWABLE ENERGY STANDARDS and GREEN PRICING PROGRAMS

Utility ID #	Utility	Retail Sales Amount (MWh)	Notes
96	Redwood Electric Coop	23,435	Retail sales are based on GRE's wholesale sales to this Fixed Oblig
102	Runestone Electric Assn	182,619	
109	South Central Electric Assn	109,995	Retail sales are based on GRE's wholesale sales to this Fixed Oblig
113	Stearns Coop Electric Assn	461,665	
114	Steele Waseca Coop Electric	265,019	
117	Todd Wadena Electric Coop	148,571	
161	Willmar Municipal Utilities	108,740	Retail sales are based on GRE's wholesale sales to this Municipal l
130	Wright-Hennepin Cooperative Electric Association	717,779	Retail sales are based on GRE's wholesale sales to this Fixed Oblig

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

TOTAL GREEN PRICING Sales (MWh)	50,825
RECS retired for GREEN PRICING programs	51,313

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 # <small>(on Worksheet 1)</small>	Utility Name	Program Name	No. of Program Customers	Program Sales (MWh)	Retail Rate (\$/kWh)	Notes
1	Agralite Cooperative	Wellspring Wind	69	405		
4	Arrowhead Electric Coop, Inc	Wellspring Wind	83	310		
10	Benco Electric Cooperative	Wellspring Wind	53	132		
6	Brown Co Rural Electrical Assn	Wellspring Wind	73	413		
26	Connexus Energy	Wellspring Wind	408	14,111		
38	Connexus - ERMU	Wellspring Wind	189	612		ERMU = Elk River Municipal Utilities
9	Cooperative Light & Power	Wellspring Wind	105	496		
35	Crow Wing Coop Power & Light, Inc.	Wellspring Wind	776	5,412		
15	Dakota Electric Assn	Wellspring Wind	1294	8,491		
16	East Central Energy	Wellspring Wind	662	3,245		ECE customers and program sales repre
40	Federated Rural Electric Assn	Wellspring Wind	53	276		
43	Goodhue County Coop Electric Assn	Wellspring Wind	38	307		
18	Itasca Mantrap Coop Electric Assn	Wellspring Wind	75	319		
19	Kandiyohi Power Coop	Wellspring Wind	85	217		
14	Lake Country Power	Wellspring Wind	271	1,978		
59	Lake Region Electric Coop	Wellspring Wind	143	595		
64	McLeod Coop Power Assn	Wellspring Wind	28	247		
66	Meecker Coop Light & Power Assn	Wellspring Wind	26	203		
21	Millie Lacs Electric Coop	Wellspring Wind	126	710		
70	Minnesota Valley Electric Coop	Wellspring Wind	155	464		
148	Nobles Cooperative Electric	Wellspring Wind	34	172		
79	North Itasca Electric Co-op, Inc.	Wellspring Wind	8	34		
96	Redwood Electric Coop	Wellspring Wind	11	26		
102	Runestone Electric Assn	Wellspring Wind	193	817		488 additional RECs were retired to cover
109	South Central Electric Assn	Wellspring Wind	82	34		
113	Stearns Coop Electric Assn	Wellspring Wind	192	1,458		
114	Steele Waseca Coop Electric	Wellspring Wind	127	798		
117	Todd Wadena Electric Coop	Wellspring Wind	47	325		
130	Wright-Hennepin Cooperative Electric	Wellspring Wind	34	298		
	GRE Members	Revolt EV	159	7,775		REC Retirement on behalf of EV owners
10	Benco Electric Cooperative	Wellspring Solar	4	12		
15	Dakota Electric Assn	Wellspring Solar	41	120		
14	Lake Country Power	Wellspring Solar	10	15		

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

Renewable Energy Standard REC Retirement Account Name:	<b>2017 - MN RES Retirement, 2017 - MN 25% Incremental (All Requirements Members)</b>
Green Pricing REC Retirement Account Name:	<b>2017 - GRE Green Pricing Solar, 2017 - GRE Green Pricing Wind, 2017 - GRE REVOLT</b>

Total RECS		2,505,833	51,313	1 REC = 1 MWh
		RECS retired for		
		RENEWABLE ENERGY STANDARD compliance		
		RECS retired for GREEN PRICING programs		
MRETS ID	MRETS Generator Facility Name	Generator Fuel Type	compliance	NOTES
M578	Ashtabula II Wind, LLC - Ashtabula II Wind, LLC	Wind	329,737	277,602 for MN RES; 52,135 for MN 25% Incremental
M226	Chandler Wind Farm - Moulton 290/ Champepadan Unit 291	Wind		9,239 Wellspring Wind
M301	Christoffer - Christoffer	Wind		18,811 18,444 for Wellspring Wind; 367 for Revolt
M1070	Dickinson Solar I - Dickinson Solar I	Solar	2,898	MN RES
M341	Elk River Station - Elk River Station	Biomass	146,459	MN RES
M530	Elm Creek - Elm Creek	Wind	684,012	325,732 for MN RES; 358,280 for MN 25% Incremental
M342	ER Municipal Landfill - Elk River Municipal Utilities Landfill	Biomass	24,845	MN RES
M259	FPL Energy Burleigh Co Wind LLC - FPL Energy Burleigh Co Wind, LLC	Wind	6,462	MN RES
M560	FPL Energy Hancock County Wind, LLC - FPL Energy Hancock County V Wind	Wind	1,474	MN RES
M257	FPL Energy North Dakota Wind, LLC - FPL Energy North Dakota Wind, Wind	Wind	56,307	MN RES
M258	FPL Energy South Dakota Wind, LLC - FPL Energy South Dakota Wind	Wind	5,470	MN RES
M309	G.McNeilus LLC - McNeilus Windfarm LLC	Wind		12,446 10,714 for Wellspring Wind; 1,732 for Revolt
M979	GRE HQ PV Solar 2014	Solar		147 Wellspring Solar
M302	Laurie River 1 - Laurie River 1	Hydro	754	MN RES
M303	Laurie River 2 - Laurie River 2	Hydro	905	MN RES
M305	McArthur Falls - McArthur Falls	Hydro	9,868	MN RES
M583	Mystic Lake Wind Project - Mystic Lake Wind Project	Wind	1,270	MN RES
M634	NextEra Energy Baldwin Wind Project - Baldwin Wind Project	Wind	20,213	MN RES
M454	Osceola Windpower, LLC - Osceola Windpower, LLC	Wind	523,931	257,030 for MN RES; 266,901 for MN 25% Incremental
M304	Pine Falls - Pine Falls	Hydro	13,685	MN RES
M231	Pipestone Wind Project - Pipestone Wind Project	Wind	1,018	MN RES
M307	Pointe du Bois - Pointe du Bois	Hydro	5,303	MN RES
M261	Prairie Star Wind Farm - High Prairie Wind Farm II LLC	Wind	311,033	310,955 for MN RES; 78 for MN 25% Incremental
M256	PrairieWindsA* Chamberlain Wind Project - Chamberlain Wind Proje	Wind	1,299	MN RES
M237	PrairieWindsA* Minot Wind Project - Minot Wind Project	Wind	11,942	MN RES
M306	Slave Falls - Slave Falls	Hydro	11,573	MN RES
M908	Terra-Gen/Chandler - Terra-Gen/Chandler	Wind		4,942 4,506 for Wellspring Wind; 436 for Revolt
M262	Trimont Wind 1 LLC - Trimont Wind 1 LLC	Wind	326,180	5,728 326,180 for MN RES; 5,240 for Revolt; 488 for We
M470	Welcome Wind - Welcome Wind	Wind	6,749	MN RES
M488	West River Dairy - West River Dairy	Biomass	2,446	MN RES

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RENEWABLE ENERGY STANDARDS and GREEN PRICING PROGRAMS

Minnesota Public Utilities Commission: Docket No. E999/PR-18-12, Docket No. E-999/M-18-78	<b>Attachment 6</b>
Minnesota Department of Commerce: Docket No. E999/PR-02-1240	Reporting Period: <b>January 1, 2016 - December 31, 2017</b>
<b>M-RETS RECs Bought and Sold</b>	
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