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October 19, 2004

Re: 2004 Electric Utility Qualifying Facilities Report

Attached is the Minnesota Department of Commerce's summary of qualifying facilities (QFs) interconnected with Minnesota electric utilities. Minnesota Rules Chapter 7835.0300 through 7835.1800 require electric utilities to submit their QF reports annually.

These grid-connected qualifying facilities represent non-utility electric generators that are powered by renewable or waste-fuel energy sources or utilize cogeneration (combined heat and power). Qualifying facilities are defined under the federal Public Utilities Regulatory Powers Act (PURPA) of 1979.

The data reported is from the 2003 calendar year or another recently completed twelve month period.

If you have any questions, please contact Mike Taylor at (651) 296-6830 or [mike.taylor@state.mn.us](mailto:mike.taylor@state.mn.us).

**2004 Electric Utility  
Qualifying Facilities Report**

**Definitions**

Net Excess Generation (NEG) - generation in excess of consumption; for most large facilities, generation = NEG

Net Metering Facilities (NM) - qualifying facilities less than 40 kilowatts

Large Facilities (LF) - qualifying facilities greater than 40 kW; for some facilities, multiple units equals one QF (wind turbines for example)

**Total Electricity Generated**

Type	#	Generation (kWh)	NEG (kWh)	
Net Metering	162	2,039,524	1,457,864	12,590
Large Facilities	41	1,903,776,968	1,902,777,648	
<b>Total</b>	<b>203</b>	<b>1,905,816,492</b>	<b>1,904,235,512</b>	

**Electricity Generated - Investor-Owned Utilities**

Company	# Net Metering	Generation (kWh)	NEG (kWh)	# Large Facilities	Generation (kWh)	NEG (kWh)
Alliant	2	65,680	56,680	3	16,419,774	16,419,774
Minnesota Power*	3	9,888	1,867	4	11,640,793	11,640,793
Xcel**	53	328,228	328,228	30	1,802,777,129	1,802,777,129
Northwestern Wisconsin	0	0	0	0	0	0
Otter Tail	1	8,524	8,452	3	71,885,592	71,458,712
<b>Total</b>	<b>59</b>	<b>412,320</b>	<b>395,227</b>	<b>40</b>	<b>1,902,723,288</b>	<b>1,902,296,408</b>

\* Only NEG available for large facilities; \*\* Only NEG available for net metering.

**Electricity Generated - Cooperatives**

Company	# Net Metering	Generation (kWh)	NEG (kWh)	# Large Facilities	Generation (kWh)	NEG (kWh)
Agralite*	1	20,956	20,956	0	0	0
Arrowhead	0	0	0	0	0	0
Beltrami	0	0	0	0	0	0
Benco*	5	64,088	64,088	0	0	0
Brown County*	1	17,550	17,550	0	0	0
Clearwater-Polk	0	0	0	0	0	0
Connexus*	8	11,708	11,708	0	0	0
Coop L&P	0	0	0	0	0	0
Crow Wing	1	7,140	4,380	0	0	0
Dakota Electric	8	45,727	3,365	0	0	0
East Central	0	0	0	1	1,053,680	481,240
Federated Rural	1	31,460	22,150	0	0	0
Freeborn-Mower*	10	376,774	376,774	0	0	0
Goodhue County	1	2,040	154	0	0	0
Itasca-Mantrap	0	0	0	0	0	0
Kandiyohi	1	48,510	0	0	0	0
Lake Country*	6	1,701	1,701	0	0	0
Lake Region	2	14,449	1,153	0	0	0
Lyon-Lincoln	11	397,750	121,300	0	0	0
McLeod	3	57,237	46,268	0	0	0
Meeker	1	1,004	92	0	0	0
Mille Lacs	0	0	0	0	0	0
MN Valley Light & Power*	3	5,744	5,744	0	0	0
MN Valley Electric	5	19,127	3,073	0	0	0
Nobles	2	11,700	190	0	0	0
North Itasca	0	0	0	0	0	0
North Star	0	0	0	0	0	0
PKM	0	0	0	0	0	0
Peoples Cooperative	0	0	0	0	0	0
Red Lake	0	0	0	0	0	0
Red River Valley	0	0	0	0	0	0
Redwood Electric	1	24,332	4,176	0	0	0
Renville-Sibley**	4	7,860	1,880	0	0	0
Roseau	0	0	0	0	0	0
Runestone	2	81,642	53,101	0	0	0
Sioux Vly Southwestern	0	0	0	0	0	0
South Central	1	3,225	53	0	0	0
Stearns	3	38,186	17,130	0	0	0
Steele Waseca	12	284,280	266,097	0	0	0
Todd Wadena	0	0	0	0	0	0
Traverse	1	6,580	0	0	0	0
Tri County	3	12,300	5,420	0	0	0
Wild Rice	2	24,854	14,134	0	0	0
Wright Hennepin	4	9,280	0	0	0	0
<b>Total</b>	<b>103</b>	<b>1,627,204</b>	<b>1,062,637</b>	<b>1</b>	<b>1,053,680</b>	<b>481,240</b>

\* Only NEG available

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**Total Electricity Generated by Fuel Type**

Fuel Type	#	Generation (kWh)	NEG (kWh)
Wind	149	895,115,576	893,825,170
Solar	34	29,090	0
Biomass	1	68,920,890	68,920,890
Natural gas & methane	5	605,328,680	604,756,240
Hydro	8	118,702,896	118,702,896
Coal	4	7,817,836	7,817,836
Mass Burn Refuse	1	209,893,000	209,893,000
Waste Oil	1	8,524	8,452
<b>Total</b>	<b>203</b>	<b>1,905,816,492</b>	<b>1,903,924,484</b>

**Electricity Generated by Fuel Type - Investor Owned Utilities**

Fuel Type	# Net Metering	Generation (kWh)	NEG (kWh)	# Large Facilities	Generation (kWh)	NEG (kWh)
Wind*	28	384,157	75,747	22	893,113,666	892,686,786
Solar	30	19,639	0			
Biomass				1	68,920,890	68,920,890
Natural gas & methane				4	604,275,000	604,275,000
Hydro**				8	118,702,896	118,702,896
Coal***				4	7,817,836	7,817,836
Mass Burn Refuse				1	209,893,000	209,893,000
Waste Oil	1	8,524	8,452	0	0	0
<b>Total</b>	<b>59</b>	<b>412,320</b>	<b>84,199</b>	<b>40</b>	<b>1,902,723,288</b>	<b>1,902,296,408</b>

\*One net metered QF is a combination of wind and solar. Generation data was included in the wind category

\*\* Two large QFs are a combination of coal and hydro. Data was included in the hydro category.

\*\*\* Two large QFs are a combination of coal and hydro. Data was included in the coal category.

**Electricity Generated by Fuel Type - Cooperatives**

Fuel Type	# Net Metering	Generation (kWh)	NEG (kWh)	# Large Facilities	Generation (kWh)	NEG (kWh)
Natural gas or methane	0	0	0	1	1,053,680	481,240
Wind*	99	1,617,753	1,062,637	0	0	0
Solar	4	9,451	0	0	0	0
<b>Total</b>	<b>103</b>	<b>1,627,204</b>	<b>1,062,637</b>	<b>1</b>	<b>1,053,680</b>	<b>481,240</b>

\* One net metered QF is a combination of wind and solar. Generation data is included in the wind category.