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September 14, 2000

Re: 2000 Electric Utility Qualifying Facilities Report

Attached is the Minnesota Department of Commerce's summary of the impact of interconnected qualifying facilities (QFs) on Minnesota electric utilities. Minnesota Rules Chapter 7835.0300 through 7835.1800 require electric utilities to submit their QF reports annually. The data reported is from the 1999 calendar year or another recently completed twelve month period.

This year's report represents an attempt to make the data more accurate by:

- Separating data into generation and net excess generation categories
- Further dividing capacity size data into 3 categories

In the future, further improvements will be made to streamline the data reporting process and fill in the data gaps where possible.

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

Enforcement: 1.80.657.3602
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**2000 Electric Utility
Qualifying Facilities Report**

Total kWh Generated in the State of Minnesota by Qualifying Facilities (QFs)

Size of Facility	# QFs	Generation	NEG (1)
< 40 kW	110	857,688	356,690
40 - 100 kW	0	0	0
> 100 kW (2)	21	1,755,250,340	1,755,250,340
Total	131	1,756,108,028	1,755,607,030

(1) NEG - net excess generation (annual generation in excess of annual consumption)

(2) For QFs > 100 kW, generation is considered equal to net excess generation.

Total QF kWh Generated by Source in the State of Minnesota

Generation Type	# QF	Generation	NEG
Wind	94	352,766,604	352,290,558
Solar	23	24,436	0
Biomass	1	34,621,190	34,621,190
Natural Gas	1	680,522,000	680,522,000
Methane (landfill gas)	3	115,908,400	115,908,400
Hydro	5	140,990,600	140,990,600
Coal	3	210,954,300	210,954,300
Mass Burn Refuse	1	220,307,100	220,307,100
Waste Oil	1	13,488	12,982
Total	132	1,756,108,118	1,755,607,130

Breakdown by Generation Type

Investor-Owned Utilities

Generation Type	# < 40 kW	Generation	NEG	# > 100 kW	Generation	NEG
Wind (1),(2)	21	236,849	99,711	7	351,946,840	351,946,840
Solar (3)	23	24,436	0	0	0	0
Biomass	0	0	0	1	34,621,190	34,621,190
Natural gas	0	0	0	1	680,522,000	680,522,000
Methane (landfill gas)	0	0	0	3	115,908,400	115,908,400
Hydro	0	0	0	5	140,990,600	140,990,600
Coal (4)	0	0	0	3	210,954,300	210,954,300
Mass Burn Refuse	0	0	0	1	220,307,100	220,307,100
Waste Oil	1	13,488	12,982	0	0	0
Total	45	274,773	112,693	21	1,755,250,430	1,755,250,430

(1) 1 wind QF <40 kW is a combination of wind and solar. Generation data was included in the wind category

(2) 6 wind QF >100 kW are commercial wind farms with a total of 407 turbines, 138 of which were not online until September 1999.

(3) 18 solar QFs <40 kW are part of NSP's Solar Advantage program, which are leased from the utility by homeowners.

(4) Two coal QFs >100 kW burn coal with some natural gas. The generation data is included in the coal category.

Cooperatives

Generation Type	# < 40 kW	Generation	NEG
Wind	66	582,915	244,007
Total	66	582,915	244,007

Total kWh Generated by QFs Interconnected to Investor-Owned Utilities

Company	# < 40 kW	Generation	NEG	# > 100 kW	Generation	NEG
Aliant	0	0	0	0	0	0
Minnesota Power	3	5,141	0	1	7,301,400	7,301,400
NSP (1)	39	241,144	89,472	15	1,713,300,300	1,713,300,300
Northwestern Wisconsin	0	0	0	0	0	0
Otter Tail (2)	2	28,488	23,211	2	34,648,640	34,648,640
Total	44	274,773	112,683	18	1,755,250,340	1,755,250,340

(1) 2 wind QF <40 kW inactive

(2) 4 wind QF <40 kW and 1 wind QF 40-100 kW inactive

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Total kWh Generated by QFs Interconnected to Cooperatives

Company	# < 40 kW	Generation	NEG
Agralite	1	*	10,806
Arrowhead	0	0	0
Beltrami	0	0	0
Benco	1	4,812	**
Brown County	0	0	0
Clearwater-Polk	0	0	0
Connexus (1)	3	832	**
Coop L&P	0	0	0
Crow Wing	0	0	0
Dakota Electric	12	43,032	11,574
East Central	1	440	0
East River	0	0	0
Federated Rural	0	0	0
Freeborn-Mower	0	0	0
Goodhue County	0	0	0
Head of Lakes	0	0	0
Itasca-Mantrap	0	0	0
Kandiyohi	0	0	0
Lake Country	3	*	2,351
Lake Region	3	9,905	0
Lyon-Lincoln	10	276,580	160,450
McLeod	1	*	91
Meeker	0	0	0
Mille Lacs	0	0	0
MN Valley Coop. L&P Assn.	3	26,719	3,677
MN Valley Electric Coop	4	25,752	6,970
Nobles (2)	1	14,108	190
North Itasca	0	0	0
North Star (3)	2	1,261	0
PKM (4)	1	35,679	20,879
Peoples Cooperative	1	310	0
Red Lake	0	0	0
Red River Valley	0	0	0
Redwood Electric	1	30,596	12,071
Renville-Sibley	0	0	0
Roseau	0	0	0
Runestone	1	865	0
Sioux Villy Southwestern	3	44,158	0
South Central	0	0	0
Stearns	2	26,440	12,340
Steele Waseca	4	4,152	1,208
Todd Wadena	0	0	0
Traverse	1	7,650	240
Tri County	3	10,400	1,160
Wild Rice	0	0	0
Wright Hennepin	4	19,224	0
Total	66	582,915	244,007

* Only NEG available.

** Only generation available.

(1) 5 wind QF and 1 landfill gas QF inactive

(2) 1 wind QF inactive

(3) 1 wind QF inactive & removed 11/99

(4) 3 wind QFs inactive