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Re: Historical Electric Utility Qualifying Facilities Reports

Attached is the Minnesota Department of Commerce's summary of qualifying facilities (QFs) interconnected with Minnesota electric utilities from 1986 - 2004. 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 Policies Act (PURPA) of 1979.

The data reported is from the previous calendar year or another recently completed twelve month period unless otherwise noted.

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

1986 QF Report

Annual Energy Output (kWh to grid)
 Wind Generators
 Cogenerators and Small Power Producers
 For the Year 1986

Electric Utility Receiving Energy	# < 40 kW	kWh < 40 kW	# > 40 kW	kWh > 40 kW
Agralite	1	500	0	0
Anoka	7	3,593	1	500,220
Carlton County	2	120	0	0
Coop L&P	2	8,655	0	0
Crow Wing	1	478	0	0
East Central	2	550	0	0
Frost Benco	1	3,277	0	0
Goodhue County	2	7,126	1	7,270
Lake Region	5	25,310	0	0
McLeod	1	5,790	0	0
Mille Lacs	1	2,490	0	0
Minnesota Power	6	3,987	0	0
MN Valley Electric Coop	5	26,226	0	0
MN Valley Coop. L&P Assn.	1	5,040	0	0
Nobles	2	7,542	0	0
North Star	3	3,326	0	0
Northern Electric	1	290	0	0
Northern States Power	16	53,041	2	35,144,800
Otter Tail Power	6	38,626	0	0
PKM	3	5,631	0	0
Peoples Cooperative	2	8,107	0	0
Southwestern Minnesota	1	7,220	0	0
Stearns	2	56,379	0	0
Steele Waseca	4	12,168	0	0
Traverse	1	33,920	0	0
Wright Hennepin	7	32,835	0	0
Total	85	352,227	4	35,652,290

Originally prepared by: WEM 10/16/1987

**Energy Delivered to Cooperative
Utilities by QFs in 1988**

Company	No. of QFs Under 40 KW	KWH Provided to Utility Grid	No. of QFs Over 40 KW	KWH Provided to Utility Grid
Anoka	7	3,320	1	187,380
Carlton County	2	22	0	0
Cooperative Light and Power Assn. Of lake Co.	1	0	0	0
Dakota Electric	7	41,792	0	0
East Central	2	0	0	0
Frost Benco	1	2,830	0	0
Goodhue County	3	10,685	0	0
Lake Region	5	40,352	0	0
Lyon Lincoln	1	960	0	0
McLeod	1	0	0	0
MN Valley Electric	5	31,106	0	0
Nobles	2	8,990	0	0
North Star	3	1,589	0	0
Northern Electric	1	490	0	0
Peoples Coop. Power	2	7,100	0	0
Red River Valley	3	5,900	0	0
Renville-Sibley	3	160	0	0
Runestone	3	1,090	0	0
Southwestern MN Coop.	3	5,790	0	0
Stearns	2	85,940	0	0
Steele Waseca	3	4,971	0	0
Todd Wadena	1	0	0	0
Traverse	1	6,820	0	0
Tri-County	2	74,079	0	0
Wright Hennepin	7	19,680	0	0
Total	71	353,666	1	187,380
Wind	69	350,186	0	0
Biomass	1	3,410	0	0
Wood Chips	1	70	0	0
Landfill Gas	0	0	1	187,380

**Energy Delivered to Investor-Owned
Utilities by QFs in 1988**

Company	No. of QFs Under 40 KW	KWH Provided to Utility Grid	No. of QFs Over 40 KW	KWH Provided to Utility Grid
Interstate Power	1	1	0	0
Minnesota Power	6	3,747	0	0
Northern States Power	16	56,563	7	50,642,600
Otter Tail Power	12	153,765	7	50,642,600
Total	35	153,765	7	50,642,600

1988 QF Report

Wind	23	153,765	0	0
Hydro	0	0	5	48,682,600
Cogen	0	0	2	1,960,000

**Energy Delivered to All
Utilities by QFs in 1988**

Company	No. of QFs Under 40 KW	KWH Provided to Utility Grid	No. of QFs Over 40 KW	KWH Provided to Utility Grid	Total KWH Delivered
Wind	92	503,951	0	0	503,951
Hydro	0	0	5	48,682,600	48,682,600
Cogen	0	0	2	1,960,000	1,960,000
Biomass	1	3,410	0	0	3,410
Wood Chips	1	70	0	0	70
Landfill Gas	0	0	1	187,380	187,380
Total	94	507,431	8	50,829,980	51,337,411

**Energy Delivered to Cooperative
Utilities by QFs in 1990**

Company	No. of QFs Under 40 KW	KWH Provided to Utility Grid	No. of QFs Over 40 KW	KWH Provided to Utility Grid
Anoka	7	12,385	1	18,900
Carlton County	0	0	0	0
Cooperative Light and Power Assn. Of lake Co.	0	0	0	0
Dakota Electric	7	40,540	0	0
East Central	0	0	0	0
Frost Benco	2	27,015	0	0
Goodhue County	3	4,997	0	0
Lake Region	3	24,615	0	0
Lyon Lincoln	1	800	0	0
McLeod	1	0	0	0
MN Valley Electric	4	30,225	0	0
Nobles	2	7,210	0	0
North Star	2	915	0	0
Northern Electric	0	0	0	0
Peoples Coop. Power	2	4,047	0	0
Red River Valley	2	1,400	0	0
Renville-Sibley	2	1,580	0	0
Runestone	2	1,620	0	0
Southwestern MN Coop.	3	13,480	0	0
Stearns	2	74,820	0	0
Steele Waseca	3	1,821	0	0
Todd Wadena	0	0	0	0
Traverse	1	5,920	0	0
Tri-County	2	69,000	0	0
Wright Hennepin	5	19,680	0	0
Total	56	342,070	1	18,900
Wind	54	339,180	0	0
Biomass	1	2,890	0	0
Wood Chips	1	0	0	0
Landfill Gas	0	0	1	18,900
Total	56	342,070	1	18,900

**Energy Delivered to Investor-Owned
Utilities by QFs in 1988**

Company	No. of QFs Under 40 KW	KWH Provided to Utility Grid	No. of QFs Over 40 KW	KWH Provided to Utility Grid
Interstate Power	0	0	0	0
Minnesota Power	4	2,557	1	37,850,000
Northern States Power	17	56,463	7	271,897,800

1990 QF Report

Otter Tail Power	11	87,377	0	0
Total	32	146,397	8	303,747,800
Wind	32	146,397	0	0
Hydro	0	0	5	98,441,200
Cogen	0	0	2	31,850,000
Solid Waste	0	0	1	173,456,600
Total	32	146,397	8	303,747,800

**Energy Delivered to All
Utilities by QFs in 1990**

Company	No. of QFs Under 40 KW	KWH Provided to Utility Grid	No. of QFs Over 40 KW	KWH Provided to Utility Grid	Total KWH Delivered
Wind	86	485,577	0	0	485,577
Hydro	0	0	5	98,441,200	98,441,200
Cogen	0	0	2	31,850,000	31,850,000
Biomass	1	2,890	0	0	2,890
Solid Waste	0	0	1	173,456,600	173,456,600
Wood Chips	1	0	0	0	0
Landfill Gas	0	0	1	18,900	18,900
Total	88	488,467	9	303,766,700	304,255,167

**Electric Utility Qualifying Facility Report - 1992
Cooperatives**

Company	No. of QFs Under 40 KW	KWH Produced by QF	No. of QFs Over 40 KW	KWH Produced by QF
Agrilite	0	0	0	0
Anoka	6	0	1	35,640
Arrowhead	0	0	0	0
Beltrami	0	0	0	0
Brown County	0	0	0	0
Carlton Co.	0	0	0	0
Clearwater	0	0	0	0
Coop Light & Pwr	0	0	0	0
Crow Wing	0	0	0	0
Dairyland	0	0	0	0
Dakota Electric	7	43,836	0	0
East Central	0	0	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Frost Benco	2	21,589	0	0
Goodhue Co.	3	1,694	0	0
Head of Lakes	0	0	0	0
Itaska-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake Region	4	34,476	0	0
Lyon Lincoln	1	60,280	0	0
McLeod	1	0	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
MN Valley Coop	0	0	0	0
MN Valley Electric	4	27,248	0	0
Nobles	2	7,890	0	0
North Itasca	0	0	0	0
North Pine	0	0	0	0
North Star	2	2,190	0	0
Northern Electric	0	0	0	0
Northwestern WI	0	0	0	0
Peoples Coop	2	2,740	0	0
Red Lake	0	0	0	0
Red River Valley	0	0	0	0
Redwood Electric	0	0	0	0
Renville-Sibley	2	35,130	0	0
Roseau	0	0	0	0
Runestone	2	1,850	0	0
South Central	0	0	0	0
Southwestern MN Coop	4	15,720	0	0
Stearns	2	64,700	0	0
Steele Waseca	3	0	0	0
Todd Wadena	0	0	0	0
Traverse	1	22,570	0	0
Tri County	2	77,724	0	0

1992 QF Report

Wild Rice Electric	0	0	0	0
Wright Hennipen	5	10,990	0	0
Total				

Company	No. of QFs Under 40 KW	KWH Produced by QF	No. of QFs Over 40 KW	KWH Produced by QF
Wind	52	430,617		
Solid Waste	2	10		
Landfill Gas			1	35,640
Total	54	430,627	1	35,640

Energy Delivered to Investor-Owned

Company	No. of QFs Under 40 KW	KWH Provided to Grid	No. of QFs Over 40 KW	KWH Provided to Grid
Interstate Power	0	0	0	0
Minnesota Power	4	1,981	1	42,337,600
Northern States Power	16*	44,498	9	360,653,130
Otter Tail Power	12	61,415	0	0
Total	32	107,894	10	402,990,730
Wind	32	107,894	0	
Hydro	0		5	110,136,130
Cogen	0		4	67,956,600
Solid Waste	0		1	224,898,000
Total	32	107,894	10	402,990,730

* NSP has 2 other producers who do not sell to the Utility. Since their output displaces their own loads, their output is unknown.

Total for All Utilities			
No. of QFs Under 40 KW	KWH Provided to Grid	No. of QFs Over 40 KW	KWH Provided to Grid
86	538,521	11	403,026,370

Electric Utility Qualifying Facility Report - 1993

Cooperative	Energy Delivered to Cooperatives			
	No. of QFs Under 40 KW	KWH Produced by QF	No. of QFs Over 40 KW	KWH Produced by QF
Agrilite	1	18,398	0	0
Anoka	7	0	1	49,680
Arrowhead	0	0	0	0
Beltrami	0	0	0	0
Brown County	0	0	0	0
Carlton Co.	0	0	0	0
Clearwater	0	0	0	0
Coop Light & Pwr	0	0	0	0
Crow Wing	0	0	0	0
Dairyland	0	0	0	0
Dakota Electric	6	24,830	0	0
East Central	1	2,360	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Frost Benco	2	455	0	0
Goodhue Co.	3	123	0	0
Head of Lakes	0	0	0	0
Itaska-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake Region	4	34,457	0	0
Lyon Lincoln	10	177,560	0	0
McLeod	1	N/A	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
MN Valley Coop	2	13,539	0	0
MN Valley Electric	4	24,093	0	0
Nobles	2	19,230	0	0
North Itasca	0	0	0	0
North Pine	0	0	0	0
North Star	2	1,554	0	0
Northern Electric	0	0	0	0
Northwestern WI	0	0	0	0
Peoples Coop	2	3,280	0	0
Red Lake	0	0	0	0
Red River Valley	0	0	0	0
Redwood Electric	0	0	0	0
Renville-Sibley	2	0	0	0
Roseau	0	0	0	0
Runestone	2	350	0	0
South Central	0	0	0	0
Southwestern MN Coop	3	750	0	0
Stearns	2	74,280	0	0
Steele Waseca	3	2,945	0	0
Todd Wadena	0	0	0	0
Traverse	1	3,290	0	0
Tri County	2	57,260	0	0

1993 QF Report

Wild Rice Electric	0	0	0	0
Wright Hennipen	5	7,370	0	0
Total	67	466,124	1	49,680

Breakdown by Generation Type - Cooperatives

Fuel	No. of QFs	KWH	No. of QFs	KWH
	Under 40	Produced	Over 40	Produced by
	KW	by QF	KW	QF
Wind	65	466,124		
Biomass	2	0		
Landfill Gas			1	49,680
Total	67	466,124	1	49,680

Energy Delivered to Investor-Owned Utilities by QFs in 1993

Company	No. of QFs	KWH	No. of QFs	KWH
	Under 40	Provided	Over 40	Provided
	KW	to Grid	KW	to Grid
Interstate Power	0	0	0	0
Minnesota Power	4	1,740	0	0
Northern States Power	17	44058*	9	467,721,499
Otter Tail Power	12	167,406	1	11,526,575
Total	33	213,204	10	479,248,074

Breakdown by Generation Type - Investor Owned Utilities

Fuel	No. of QFs	KWH	No. of QFs	KWH
	Under 40	Provided	Over 40	Provided
	KW	to Grid	KW	to Grid
Wind	32	104,714		
Biomass			1	11,526,575
Natural/Propane Gas	1	108,490		
Hydro			6	140,992,849
Municipal Solid Waste			1	213,335,650
Coal			1	113,393,000
Other			1	N/A*
Total	100	213,204	11	479,248,074

* NSP has two producers who do not sell to the utility.

Since their output displaces their own load, an accurate kWh total is unknown.

** This producer does not sell to NSP and uses their output from combined steam and hydro facilities to displace their own load.

Total for All Utilities

	No. of QFs	KWH	No. of QFs	KWH
	Under 40	Provided	Over 40	Provided
	KW	to Grid	KW	to Grid
Total	99	679,328	11	479,297,754

Electric Utility Qualifying Facilities Report - 1994
Generation by QFs Interconnected to Cooperatives

Company	No. of QFs		No. of QFs	
	Under 40	KWH	Over 40	KWH
	KW	Production	KW	Production
Agrilite	1	32,703	0	0
Anoka	7	52,528	1	18,000
Arrowhead	0	0	0	0
Beltrami	0	0	0	0
Brown County	0	0	0	0
Carlton Co.	0	0	0	0
Clearwater	0	0	0	0
Coop Light & Pwr of Lake Co.	0	0	0	0
Crow Wing	0	0	0	0
Dairyland	0	0	0	0
Dakota Electric	7	20,682	0	0
East Central	1	2,610	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Frost Benco	1	4,959	0	0
Goodhue Co.	3	0	0	0
Head of Lakes	0	0	0	0
Itaska-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake Region	4	26,464	0	0
Lyon Lincoln	10	191,310	0	0
McLeod	1	N/A	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
MN Valley Coop	2	52,986	0	0
MN Valley Electric	3	22,799	0	0
Nobles	2	13,407	0	0
North Itasca	0	0	0	0
North Pine	0	0	0	0
North Star	1	1,866	0	0
Northern Electric	0	0	0	0
Peoples Coop	2	6,748	0	0
Red Lake	0	0	0	0
Red River Valley	0	0	0	0
Redwood Electric	1	14,247	0	0
Renville-Sibley	2	N/A	0	0
Roseau	0	0	0	0
Runestone	2	39,310	0	0
South Central	0	0	0	0
Southwestern MN Coop	4	5,660	0	0
Stearns	2	65,380	0	0
Steele Waseca	3	N/A	0	0
Todd Wadena	0	0	0	0
Traverse	1	1,050	0	0
Tri County	2	46,240	0	0

1994 QF Report

Wild Rice Electric	0	0	0	0
Wright Hennipen	5	4,730	0	0
Total	67	605,679	1	18,000
Wind	66	605,679	0	0
Biomass	1	0	0	0
Natural/Propane	0	0	0	0
Landfill Gas	0	0	1	18,000
Hydro	0	0	0	0
RDF	0	0	0	0
Coal	0	0	0	0
Total	67	605,679	1	18,000

Energy Delivered to Investor-Owned

Company	No. of QFs	KWH Produced	No. of QFs	KWH Produced
	Under 40 KW		Over 40 KW	
Interstate Power	0	0	0	0
Minnesota Power	10	62,716	1	6,304,500
Northern States Power	16	70,744	10	479,914,802
Northwestern WI	0	0	0	0
Otter Tail	12	75,379	1	37,956,345
Total	38	208,839	12	524,175,647
Wind	32	107,894	0	
Hydro	0		5	110,136,130
Cogen	0		4	67,956,600
Solid Waste	0		1	224,898,000
Total	32	107,894	10	402,990,730

Total for All Utilities

	No. of QFs	KWH Produced	No. of QFs	KWH Produced
	Under 40 KW		Over 40 KW	
	105	814,518	13	524,193,647

Electric Utility Qualifying Facilities Report - 1995
Generation by QFs Interconnected to Cooperatives

Company	No. of QFs Under 40 KW	KWH Provided by QF	No. of QFs Over 40 KW	KWH Produced by QF
Agrilite	0	0	0	0
Anoka	6	1,768	1	2,312,000
Arrowhead	0	0	0	0
Beltrami	0	0	0	0
Brown County	0	0	0	0
Carlton Co.	0	0	0	0
Clearwater	0	0	0	0
Coop Light & Pwr	0	0	0	0
Crow Wing	0	0	0	0
Dairyland	0	0	0	0
Dakota Electric	7	27,958	0	0
East Central	0	0	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Frost Benco	1	4,154	0	0
Goodhue Co.	1	0	0	0
Head of Lakes	0	0	0	0
Itaska-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake Region	4	23,151	0	0
Lyon Lincoln	10	373,220	0	0
McLeod	1	1,580	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
MN Valley Coop	4	77,752	0	0
MN Valley Electric	2	17,130	0	0
Nobles	2	23,396	0	0
North Itasca	0	0	0	0
North Pine	0	0	0	0
North Star	3	464	0	0
Northern Electric	0	0	0	0
Peoples Coop	2	8,630	0	0
Red Lake	0	0	0	0
Red River Valley	0	0	0	0
Redwood Electric	1	33,037	0	0
Renville-Sibley	2	0	0	0
Roseau	0	0	0	0
Runestone	2	3,230	0	0
South Central	0	0	0	0
Southwestern MN Coop	4	52,690	0	0
Stearns	2	72,380	0	0
Steele Waseca	3	57,468	0	0
Todd Wadena	0	0	0	0
Traverse	1	0	0	0
Tri County	2	64,391	0	0
Wild Rice Electric	0	0	0	0

1995 QF report

Wright Hennipen	5	26,050	0	0
Total	65	868,449	1	231,200
Wind	64	868,449	0	0
Biomass	1	0	0	0
Natural/Propane	0	0	0	0
Landfill Gas	0	0	1	231,200
Hydro	0	0	0	0
RDF	0	0	0	0
Coal	0	0	0	0
Total	65	868,449	1	231,200

Energy Delivered to Investor-Owned

Company	No. of QFs		No. of QFs	
	Under 40	KWH	Over 40	KWH
	KW	Produced	KW	Produced
Interstate Power	0	0	0	0
Minnesota Power	3	2,043	1	11,268,800
Northern States Power	16	74,398*	10	492,586,924
Northwestern WI	0	0	0	0
Otter Tail	10	0	3	58,243**
Total	29	76,441	14	503,913,967

* Net energy delivered to NSP

** OTP reports one output for small and large wind QFs

Company	No. of QFs		No. of QFs	
	Under 40	KWH	Over 40	KWH
	KW	Produced	KW	Produced
Wind	29	76,441	2	17,992,753
Biomass	0	0	0	0
Natural/Propane	0	0	1	0
Landfill Gas	0	0	1	0
Hydro	0	0	5	137,005,864
RDF	0	0	1	215,186,760
Coal	0	0	3	123,183,800
Other	0	0	1	10,544,790
Total	29	76,441	14	503,913,967

Total for All Utilities

	No. of QFs		No. of QFs	
	Under 40	KWH	Over 40	KWH
	KW	Produced	KW	Produced
	105	814,518	13	524,193,647

Electric Utility Qualifying Facilities Report - 1996

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

Size of Facility	#	NEG
under 40 kW	97	987,933
over 40 kW	17	538,206,871
	114	539,194,804

Generation by QFs Interconnected to Investor-Owned Utilities

Company	# < 40 kW	NEG	# > 40 kW	NEG
Interstate	0	0	0	0
Minnesota Power	3	3,363	1	7,822,000
NSP	18	61,105	11	495,659,600
NW Wisconsin	0	0	0	0
Otter Tail	11	45,702	3	34,290,235
TOTAL	32	110,170	15	537,771,835

* All generation data (kWh produced) in this report refers to energy delivered to the utilities by QFs and does not include energy produced and used by the QF itself.

Generation by QFs Interconnected to Cooperatives

Company	# < 40 kW	NEG	# > 40 kW	NEG
Agrilite	0	0	1	34,536
Anoka	6	1,713	1	400,500
Arrowhead	0	0	0	0
Beltrami	0	0	0	0
Brown County	0	0	0	0
Carlton County	0	0	0	0
Clearwater	0	0	0	0
Coop L& P Lake Coun	0	0	0	0
Crow Wing	0	0	0	0
Dairyland	0	0	0	0
Dakota Electric	7	27,936	0	0
East Central 1/	0	0	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Frost-Benco	1	4,289	0	0
Goodhue County	0	0	0	0
Head of Lakes	0	0	0	0
Itaska-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake Region	4	13,315	0	0
Lyon-Lincoln	11	319,600	0	0
McLeod 2/	1	11,000	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
Mn Valley Coop. & Ass	5	195,640	0	0
Mn Valley Electric Coo	3	28,823	0	0
Nobles	2	21,422	0	0
North Itasca	0	0	0	0
North Star	3	3,855	0	0
Northern Electric	0	0	0	0
Peoples Cooperative	2	7,456	0	0

Electric Utility Qualifying Facilities Report - 1996

Red Lake	0	0	0	0
Red River	0	0	0	0
Redwood Electric	1	29,268	0	0
Renville-Sibley	1	0	0	0
Roseau	0	0	0	0
Runestone	2	8,470	0	0
Sioux Vllly Southwester	4	46,300	0	0
South Central	0	0	0	0
Stearns	2	54,080	0	0
Steele Waseca	3	3,549	0	0
Todd Wadena	0	0	0	0
Traverse	1	0	0	0
Tri County	2	62,037	0	0
Wild Rice	0	0	0	0
Wright Hennipin	4	39,010	0	0
TOTAL	65	877,763	2	435,036

1/ North Pine merged with East Central in 1995, since the last report.

2/ Only net energy figures available, kWh produced is estimated.

3/ Formerly South Western Minnesota Cooperative.

Breakdown by Generation Type

Cooperatives

Generation Type	# < 40 kW	NEG	# > 40 kW	NEG
Wind	65	877,763	1	34,536
Landfill Gas	0	0	1	400,500
TOTAL	65	877,763	2	435,036

Investor-Owned Utilities

Generation Type	# < 40 kW	NEG	# > 40 kW	NEG
Wind	30	107,765	2	58,535,700
Biomass	0	0	1	34,290,235
Natural/Propane	0	0	1	0
Landfill Gas	0	0	1	26,192,600
Hydro	0	0	6	125,202,200
RDF	0	0	1	206,163,200
Coal	0	0	2	62,515,000
Other	2	2,405	1	24,872,900
TOTAL	32	110,170	15	537,771,835

Total QF Generation in the State of Minnesota

Fuel	NEG
Wind	59,555,764
Biomass	34,290,235
Natural/Propane	0
Landfill Gas	26,593,100
Hydro	125,202,200
RDF	206,163,200
Coal	62,515,000
Other	24,875,305
TOTAL	539,194,804

1997 QF Report

1997 Electric Utility Qualifying Facilities Report

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

Size of Facility	#	NEG
under 40 kW	110	737,030
over 40 kW	17	520,976,045
Total	127	521,713,075

kWh Delivered by QFs Interconnected to Investor-Owned Utilities

Company	# < 40 kW	NEG	# > 40 kW	NEG
Interstate	0	0	0	0
Minnesota Power	3	3,463	1	4,835,400
NSP	18	83,738	11	452,769,356
NW Wisconsin	0	0	0	0
Otter Tail	11	36,873	3	62,845,349
TOTAL	32	124,074	15	520,450,105

kWh Delivered by QFs Interconnected to Cooperatives

Company	# < 40 kW	NEG	# > 40 kW	NEG
Agrilite	0	0	1	31,660
Anoka	6	918	1	494,280
Arrowhead	0	0	0	0
Beltrami	0	0	0	0
Brown County	0	0	0	0
Carlton County	0	0	0	0
Clearwater	0	0	0	0
Coop L& P Lake	0	0	0	0
Crow Wing	0	0	0	0
Dairyland	0	0	0	0
Dakota Electric	8	27,410	0	0
East Central	1	970	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Frost-Benco	1	5,363	0	0
Goodhue County	0	0	0	0
Head of Lakes	0	0	0	0
Itasca-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake County 1/	2	0	0	0
Lake Region	4	683	0	0
Lyon-Lincoln	11	201,280	0	0
McLeod 2/	1	10,000	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
Mn Valley Coop. 1	5	113,817	0	0
Mn Valley Elec. C	3	28,527	0	0
Nobles	2	160	0	0
North Itasca	0	0	0	0
North Star	3	80	0	0
PKM	4	21,958	0	0
Peoples Coopera	2	8,004	0	0

1997 QF Report

Red Lake	0	0	0	0
Red River Valley	0	0	0	0
Redwood Electric	1	10,614	0	0
Renville-Sibley	1	0	0	0
Roseau	0	0	0	0
Runestone	2	8,380	0	0
Sioux Vily Southw	4	41,800	0	0
South Central	0	0	0	0
Stearns	2	48,080	0	0
Steele Waseca	5	28,872	0	0
Todd Wadena	0	0	0	0
Traverse	1	0	0	0
Tri County	2	27,560	0	0
Wild Rice	0	0	0	0
Wright Hennipin	4	28,480	0	0
TOTAL	78	612,956	2	525,940

1/ Since the last report, Carlton County, Dairyland and Northern Electric merged to form Lake Country.

2/ Only net energy figures available, kWh delivered is estimated.

Breakdown by Generation Type

Investor-Owned Utilities

Fuel	# < 40 kW	NEG	# > 40 kW	NEG
Wind	29	123,805	2	54,384,256
Solar	2	269	0	0
Biomass	0	0	1	62,845,347
Natural/Propane	0	0	1	2
Landfill Gas	0	0	0	0
Hydro	0	0	5	110,040,700
RDF	0	0	1	206,684,900
Coal	0	0	1	30,560,000
Other	1	0	4	55,934,900
TOTAL	32	124,074	15	520,450,105

Cooperatives

Fuel	# < 40 kW	NEG	# > 40 kW	NEG
Wind	78	612,956	1	31,660
Landfill Gas	0	0	1	494,280
TOTAL	78	612,956	2	525,940

Total QF kWh Delivered in the State of Minnesota

Fuel	NEG
Wind	55,152,677
Solar	269
Biomass	62,845,347
Natural/Propane	2
Landfill Gas	494,280
Hydro	110,040,700
RDF	206,684,900
Coal	30,560,000
Other	55,934,900
TOTAL	521,713,075

1998 QF Report

1998 Electric Utility Qualifying Facilities Report

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

Size of Facility	#	NEG
under 40 kW	107	810,715
over 40 kW	17	746,163,346

Total kWh Delivered by QFs Interconnected to Investor-Owned Utilities

Company	# < 40 kW	NEG	# > 40 kW	NEG
Interstate	0	0	0	0
Minnesota Power	3	3,192	1	6,025,800
NSP	21	111,975	13	677,180,600
NW Wisconsin	0	0	0	0
Otter Tail	6	24,745	1	62,775,510
Total	30	139,912	15	745,981,910

Total kWh Delivered by QFs Interconnected to Cooperatives

Company	# < 40 kW	NEG	# > 40 kW	NEG
Interstate	0	0	0	0
Agralite	0	0	1	28,796
Anoka	9	876	1	152,640
Beltrami	0	0	0	0
Brown County	0	0	0	0
Clearwater	0	0	0	0
Coop L&P	0	0	0	0
Crow Wing	0	0	0	0
Dakota Electric	8	32,624	0	0
East Central	1	970	0	0
East River	0	0	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Frost-Benco	1	4,473	0	0
Goodhue County	0	0	0	0
Head of Lakes	0	0	0	0
Itasca-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake Country	2	0	0	0
Lake Region	5	11,986	0	0
Lyon-Lincoln	11	198,680	0	0
McLeod 1/	1	10,000	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
MN Valley L&P Assn	5	99,442	0	0
MN Valley Electric	3	21,262	0	0
Nobles	2	1,390	0	0
North Itasca	0	0	0	0
North Star	3	30	0	0
PKM	4	33,560	0	0
Peoples Cooperative	2	5,740	0	0
Red Lake	0	0	0	0
Red River Valley	0	0	0	0
Redwood Electric	1	10,024	0	0

1998 QF Report

Renville-Sibley	0	0	0	0
Roseau	0	0	0	0
Runestone	2	7,530	0	0
Sioux Villy Southwes	4	42,169	0	0
South Central	0	0	0	0
Stearns	2	56,980	0	0
Steele Waseca	4	98,811	0	0
Todd Wadena	0	0	0	0
Traverse	1	0	0	0
Tri County	2	21,946	0	0
Wild Rice	0	0	0	0
Wright Hennepin	4	12,310	0	0
TOTAL	77	670,803	2	181,436

1/Only net figures available; total delivered is estimated.

2/One unit taken off-line May, 1997.

Breakdown by Generation Type

Investor-Owned Utilities

Generation Type	# < 40 kW	NEG	# > 40 kW	NEG
Wind	27	117,368	1	48,163,200
Solar	2	19,563	0	0
Biomass	0	0	1	62,775,510
Hydro	0	0	5	151,093,800
Coal	0	0	2	158,100,000
Mass Burn Refuse	0	0	1	194,460,200
Other	1	2,981	5	131,389,200
TOTAL	30	139,912	15	745,981,910

Cooperatives

Generation Type	# < 40 kW	NEG	# > 40 kW	NEG
Wind	77	670,803	1	28,796
Landfill Gas	0	0	1	152,640
TOTAL	77	670,803	2	181,436

Total QF kWh Delivered in the State of Minnesota

Generation Type	NEG
Wind	48,980,167
Solar	19,563
Biomass	62,775,510
Landfill Gas	152,640
Hydro	151,093,800
Mass Burn Refuse	194,460,200
Coal	158,100,000
Other	131,392,181
Total	746,974,061

1999 Electric Utility Qualifying Facilities Report

1999 Electric Utility Qualifying Facilities Report

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

Size of Facility	#	NEG (1)
under 40 kW	105	677,316
over 40 kW	19	814,596,739
Total	124	815,274,055

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

Total QF kWh Delivered in the State of Minnesota

Generation Type	NEG
Wind	87,536,773
Solar	20,633
Biomass	51,245,930
Natural/Propane	0
Landfill Gas	62,136
Hydro	128,676,800
RDF	0
Coal	182,199,200
Mass Burn Refuse	223,822,700
Other	141,709,883
Total	815,274,055

Breakdown by Generation Type

Investor-Owned Utilities

Generation Type	# < 40 kW	NEG	# > 40 kW	NEG
Wind 1,2/	26	163,996	3	86,886,400
Solar 3/	5	20,633	0	0
Biomass	0	0	1	51,245,930
Hydro	0	0	5	128,676,800
Coal	0	0	2	182,199,200
Mass Burn Refuse	0	0	1	223,822,700
Other	1	14,583	5	141,695,300
Total	32	199,212	17	814,526,330

1/This report treats Silver Lake as three 25 kW QFs.

2/Three facilities that were in previous reports as one facility have been divested.

3/ One facility is considered a QF although it does not sell energy to the grid.

Cooperatives

Generation Type	# < 40 kW	NEG	# > 40 kW	NEG
Wind	73	478,104	1	8,273
Landfill Gas	0	0	1	62,136
Total	73	478,104	2	70,409

Total kWh Delivered by QFs Interconnected to Investor-Owned Utilities

Company	# < 40 kW	NEG	# > 40 kW	NEG
Interstate	0	0	0	0
Minnesota Power	3	4,659	1	3,436,000
NSP	25	162,939	14	759,827,300
NW Wisconsin	0	0	0	0
Otter Tail 1/	4	31,614	2	51,263,030
Total	32	199,212	17	814,526,330

1/ Four wind < 40 kW and one wind > 40 kW were non-operational and not included.

1999 Electric Utility Qualifying Facilities Report

Total kWh Delivered by QFs Interconnected to Cooperatives

Company	# < 40 kW	NEG	# > 40 kW	NEG
Interstate	0	0	0	0
Agralite	0	0	1	8,273
Anoka 1/	9	311	1	62,136
Arrowhead	0	0	0	0
Beltrami	0	0	0	0
Benco 2/	1	1,784	0	0
Brown County	0	0	0	0
Clearwater	0	0	0	0
Coop L&P	0	0	0	0
Crow Wing	0	0	0	0
Dakota Electric	8	29,806	0	0
East Central	1	1,030	0	0
East River	0	0	0	0
Federated Rural	0	0	0	0
Freeborn-Mower	0	0	0	0
Goodhue County	0	0	0	0
Head of Lakes	0	0	0	0
Itasca-Mantrap	0	0	0	0
Kandiyohi	0	0	0	0
Lake Country	2	1,498	0	0
Lake Region	3	9,825	0	0
Lyon-Lincoln	10	227,530	0	0
McLeod 3/	1	10,000	0	0
Meeker	0	0	0	0
Mille Lacs	0	0	0	0
MN Valley L&P Assn.	4	10,561	0	0
MN Valley Electric	3	16,573	0	0
Nobles	2	170	0	0
North Itasca	0	0	0	0
North Star	3	20	0	0
PKM 4/	4	10,560	0	0
Peoples Cooperative	2	974	0	0
Red Lake	0	0	0	0
Red River Valley	0	0	0	0
Redwood Electric	1	11,988	0	0
Renville-Sibley	0	0	0	0
Roseau	0	0	0	0
Runestone	2	106	0	0
Sioux Vily SW 5/	3	24,784	0	0
South Central	0	0	0	0
Stearns	2	31,800	0	0
Steele Waseca	4	69,274	0	0
Todd Wadena	0	0	0	0
Traverse	1	7,160	0	0
Tri County	3	400	0	0
Wild Rice	0	0	0	0
Wright Hennepin	4	11,950	0	0
Total	73	478,104	2	70,409

1/ Two units were inactive for 1998.

2/Previously Frost-Benco

3/Only net figures available; total delivered is estimated.

4/Three units were inactive for 1998.

5/One facility non-operational since January 1995 not included.

2000 Electric Utility Qualifying Facilities Report

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

**2000 Electric Utility
Qualifying Facilities Report**

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

2001 Electric Utility Qualifying Facilities Report

2001 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	92	793,017	272,650
40 - 100 kW	0	0	0
> 100 kW (1)	23	1,876,925,460	1,876,436,600
Total	115	1,877,718,477	1,876,709,250

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

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

Total QF kWh Generated in the State of Minnesota

Generation Type	# QFs	Generation	NEG
Wind	75	724,317,082	723,799,956
Solar	23	27,022	0
Biomass	2	66,645,910	66,180,990
Natural Gas	1	456,874,000	456,874,000
Methane (landfill gas)	3	94,015,900	94,015,900
Hydro	6	127,910,400	127,910,400
Coal	3	185,430,710	185,430,710
Mass Burn Refuse	1	222,445,600	222,445,600
Waste Oil	1	51,853	51,694
Total	115	1,877,718,477	1,876,709,250

Breakdown by Generation Type

Investor-Owned Utilities

Generation Type	# < 40 kW	Generation	NEG	# > 100 kW	Generation	NEG
Wind (1),(2)	19	203,828	0	7	723,602,940	723,579,000
Solar (3)	23	27,022	0	0	0	0
Biomass	0	0	0	1	65,681,750	65,681,750
Natural gas	0	0	0	1	456,874,000	456,874,000
Methane (landfill gas)	0	0	0	3	94,015,900	94,015,900
Hydro	0	0	0	6	127,910,400	127,910,400
Coal (4)	0	0	0	3	185,430,710	185,430,710
Mass Burn Refuse	0	0	0	1	222,445,600	222,445,600
Waste Oil	1	51,853	51,694	0	0	0
Total	43	282,703	51,694	22	1,875,961,300	1,875,937,360

(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.

(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	# > 100 kW	Generation	NEG
Biomass	0	0	0	1	964,160	499,240
Wind	49	510,314	220,956	0	0	0
Total	49	510,314	220,956	1	964,160	499,240

Total kWh Generated by QFs Interconnected to Investor-Owned Utilities

Company	# < 40 kW	Generation	NEG	# > 100 kW	Generation	NEG
Alliant	0	0	0	0	0	0
Minnesota Power	2	4,843	0	1	4,109,510	4,109,510
Xcel	40	226,007	0	19	1,806,146,100	1,806,146,100
Northwestern Wisconsin	0	0	0	0	0	0

2001 Electric Utility Qualifying Facilities Report

Otter Tail	1	51,853	51,694	2	65,705,690	65,681,750
Total	43	282,703	51,694	22	1,875,961,300	1,875,937,360

2001 Electric Utility Qualifying Facilities Report

Total kWh Generated by QFs Interconnected to Cooperatives

Company	# < 40 kW	Generation	NEG	# < 40 kW	Generation	NEG
Agralite	1	*	9,968	0	0	0
Arrowhead	0	0	0	0	0	0
Beltrami	0	0	0	0	0	0
Benco	1	2,203	**	0	0	0
Brown County	0	0	0	0	0	0
Clearwater-Polk	0	0	0	0	0	0
Connexus	1	45	**	0	0	0
Coop L&P	0	0	0	0	0	0
Crow Wing	0	0	0	0	0	0
Dakota Electric	6	45,937	8,575	0	0	0
East Central	0	0	0	1	964,160	499,240
East River	0	0	0	0	0	0
Federated Rural	0	0	0	0	0	0
Freeborn-Mower	0	0	0	0	0	0
Goodhue County	0	0	0	0	0	0
Head of Lakes	0	0	0	0	0	0
Itasca-Mantrap	0	0	0	0	0	0
Kandiyohi	0	0	0	0	0	0
Lake Country	3	*	386	0	0	0
Lake Region	3	12,759	232	0	0	0
Lyon-Lincoln	9	195,500	97,670	0	0	0
McLeod	1	*	80	0	0	0
Meeker	0	0	0	0	0	0
Mille Lacs	0	0	0	0	0	0
MN Valley Coop. L&P Assn.	1	21,063	0	0	0	0
MN Valley Electric Coop	4	20,812	3,144	0	0	0
Nobles	1	13,130	340	0	0	0
North Itasca	0	0	0	0	0	0
North Star	0	0	0	0	0	0
PKM	1	16,579	10,099	0	0	0
Peoples Cooperative	1	20	0	0	0	0
Red Lake	0	0	0	0	0	0
Red River Valley	0	0	0	0	0	0
Redwood Electric	1	26,982	8,224	0	0	0
Renville-Sibley	0	0	0	0	0	0
Roseau	0	0	0	0	0	0
Runestone	1	600	0	0	0	0
Sioux Vily Southwestern	2	43,900	29,858	0	0	0
South Central	0	0	0	0	0	0
Stearns	2	25,160	15,000	0	0	0
Steele Waseca	3	33,804	26,920	0	0	0
Todd Wadena	0	0	0	0	0	0
Traverse	1	8,070	0	0	0	0
Tri County	2	10,400	860	0	0	0
Wild Rice	0	0	0	0	0	0
Wright Hennepin	4	33,350	9,600	0	0	0
Total	49	510,314	220,956	1	964,160	499,240

* Only NEG available.

** Only generation available.

2002 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	104	866,863	350,152
40 - 100 kW	0	0	0
> 100 kW (1)	27	1,984,677,071	1,983,717,671
Total	131	1,985,543,934	1,984,067,823

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

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

Total QF kWh Generated in the State of Minnesota

Generation Type	# QFs	Generation	NEG
Wind	84	803,045,996	802,131,710
Solar	29	24,366	0
Biomass	2	70,182,320	69,652,800
Natural gas & methane	5	588,537,552	588,537,552
Hydro	6	106,602,139	106,602,139
Coal	3	189,904,596	189,904,596
Mass Burn Refuse	1	227,238,600	227,238,600
Waste Oil	1	443	426
Total	131	1,985,536,012	1,984,067,823

Breakdown by Generation Type

Investor-Owned Utilities

Generation Type	# < 40 kW	Generation	NEG	# > 100 kW	Generation	NEG
Wind (1),(2)	19	158,246	7,825	10	802,211,864	801,781,984
Solar (3)	28	24,366	0	0	0	0
Biomass	0	0	0	1	69,073,320	69,073,320
Natural gas & methane	0	0	0	5	588,537,552	588,537,552
Hydro	0	0	0	6	106,602,139	106,602,139
Coal (4)	0	0	0	3	189,904,596	189,904,596
Mass Burn Refuse	0	0	0	1	227,238,600	227,238,600
Waste Oil	1	443	426	0	0	0
Total	48	183,055	8,251	26	1,983,568,071	1,983,138,191

(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 between 17-142 wind turbines each.

(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	# > 100 kW	Generation	NEG
Biomass	0	0	0	1	1,109,000	579,480
Wind	55	675,886	341,901	0	0	0
Solar	1	7,922	0	0	0	0
Total	56	683,808	341,901	1	1,109,000	579,480

Total kWh Generated by QFs Interconnected to Investor-Owned Utilities

Company	# < 40 kW	Generation	NEG	# > 100 kW	Generation	NEG
Alliant	0	0	0	0	0	0
Minnesota Power	2	4,778	0	1	5,535,700	5,535,700
Xcel	45	177,834	7,825	23	1,908,495,331	1,908,495,331
Northwestern Wisconsin	0	0	0	0	0	0
Otter Tail	1	443	426	2	69,537,040	69,107,160
Total	48	183,055	8,251	26	1,983,568,071	1,983,138,191

2002 Electric Utility Qualifying Facilities Report

Total kWh Generated by QFs Interconnected to Cooperatives

Company	# < 40 kW	Generation	NEG	# > 100 kW	Generation	NEG
Agralite	1	*	28,453	0	0	0
Arrowhead	0	0	0	0	0	0
Beltrami	0	0	0	0	0	0
Benco	1	1,676	**	0	0	0
Brown County	1	7,450	5,600	0	0	0
Clearwater-Polk	0	0	0	0	0	0
Connexus	8***	11,039	561	0	0	0
Coop L&P	0	0	0	0	0	0
Crow Wing	0	0	0	0	0	0
Dakota Electric	5	39,625	5,147	0	0	0
East Central	0	0	0	1	1,109,000	579,480
East River	0	0	0	0	0	0
Federated Rural	0	0	0	0	0	0
Freeborn-Mower	0	0	0	0	0	0
Goodhue County	0	0	0	0	0	0
Head of Lakes	0	0	0	0	0	0
Itasca-Mantrap	0	0	0	0	0	0
Kandiyohi	0	0	0	0	0	0
Lake Country	3	*	370	0	0	0
Lake Region	2	14,099	0	0	0	0
Lyon-Lincoln	10	423,510	202,720	0	0	0
McLeod	1	*	70	0	0	0
Meeker	0	0	0	0	0	0
Mille Lacs	0	0	0	0	0	0
MN Valley Coop L&P Assn	1	4124****	0	0	0	0
MN Valley Electric Coop	4	*	16,326	0	0	0
Nobles	1	10,584	220	0	0	0
North Itasca	0	0	0	0	0	0
North Star	0	0	0	0	0	0
PKM	1	16,579	10,099	0	0	0
Peoples Cooperative	1	20	0	0	0	0
Red Lake	0	0	0	0	0	0
Red River Valley	0	0	0	0	0	0
Redwood Electric	1	17,565	2,006	0	0	0
Renville-Sibley	0	0	0	0	0	0
Roseau	0	0	0	0	0	0
Runestone	2	36,754	16,191	0	0	0
Sioux Villy Southwestern	1	3,920	0	0	0	0
South Central	0	0	0	0	0	0
Stearns	2	32,360	17,700	0	0	0
Steele Waseca	2	26,927	24,618	0	0	0
Todd Wadena	0	0	0	0	0	0
Traverse	1	6,320	0	0	0	0
Tri County	3	18,840	8,840	0	0	0
Wild Rice	0	0	0	0	0	0
Wright Hennepin	4	16,540	2,980	0	0	0
Total	56	683,808	341,901	1	1,109,000	579,480

* Only NEG available.

*** 4 units are net metered through 1 meter and no generation or NEG data is available.

** Only generation available.

**** Only 3 months of data available.

**2003 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	125	1,331,794	662,817
Large Facilities	34	2,009,017,306	2,007,620,706
Total	159	2,010,349,100	2,008,283,523

Electricity Generated - Investor-Owned Utilities

Company	# Net Metering	Generation (kWh)	NEG (kWh)	# Large Facilities	Generation (kWh)	NEG (kWh)
Alliant	0	0	0	0	0	0
Minnesota Power	3	6,588	1,321	3	26,391,830	26,391,830
Xcel	44	280,146	9,300	27	1,937,962,039	1,937,962,039
Northwestern Wisconsin	0	0	0	0	0	0
Otter Tail	1	22,664	22,432	3	43,634,557	42,746,557
Total	48	309,398	33,053	33	2,007,988,426	2,007,100,426

* 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	4	23,552	23,552	0	0	0
Brown County*	1	17,550	17,550	0	0	0
Clearwater-Polk	0	0	0	0	0	0
Connexus*	8	17,296	9,124	0	0	0
Coop L&P	0	0	0	0	0	0
Crow Wing	0	0	0	0	0	0
Dakota Electric	7	44,307	7,178	0	0	0
East Central	0	0	0	1	1,028,880	520,280
East River	0	0	0	0	0	0
Federated Rural	1	26,830	18,790	0	0	0
Freeborn-Mower	1	37,369	12,204	0	0	0
Goodhue County	1	7,920	4,028	0	0	0
Head of Lakes	0	0	0	0	0	0
Itasca-Mantrap	0	0	0	0	0	0
Kandiyohi	1	7,780	1,088	0	0	0
Lake Country*	5	561	561	0	0	0
Lake Region	2	15,148	0	0	0	0
Lyon-Lincoln	9	482,400	324,740	0	0	0
McLeod*	2	6,575	6,575	0	0	0
Meeker	0	0	0	0	0	0
Mille Lacs	0	0	0	0	0	0
MN Valley Light & Power	2	21,931	5,870	0	0	0
MN Valley Electric*	4	20,341	20,341	0	0	0
Nobles	1	14,146	350	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	1	20	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**	2	3,500	520	0	0	0
Roseau	0	0	0	0	0	0
Runestone	2	75,961	63,505	0	0	0
Sioux Vly Southwestern	0	0	0	0	0	0
South Central	0	0	0	0	0	0
Stearns	3	41,277	26,035	0	0	0
Steele Waseca	8	55,537	50,588	0	0	0
Todd Wadena	0	0	0	0	0	0

**2003 Electric Utility
Qualifying Facilities Report**

Total QF kWh Generated in the State of Minnesota

Fuel Type	#	Generation (kWh)	NEG (kWh)
Wind	115	987,579,337	986,496,131
Solar	24	29,539	0
Biomass	1	40,422,771	39,978,771
Natural gas & methane	7	638,737,831	638,229,231
Hydro	6	116,593,601	116,593,601
Coal	4	21,795,081	21,795,081
Mass Burn Refuse	1	205,168,276	205,168,276
Waste Oil	1	22,664	22,432
Total	159	2,010,349,100	2,008,283,523

Electricity Generated by Fuel Type - Investor Owned Utilities

Fuel Type	# Net Metering	Generation (kWh)	NEG (kWh)	# Large Facilities	Generation (kWh)	NEG (kWh)
Wind*	24	265,402	10,621	15	986,299,746	985,855,746
Solar (3)	23	21,332	0	0	0	0
Biomass	0	0	0	1	40,422,771	39,978,771
Natural gas & methane**	0	0	0	6	637,708,951	637,708,951
Hydro	0	0	0	6	116,593,601	116,593,601
Coal***	0	0	0	4	21,795,081	21,795,081
Mass Burn Refuse	0	0	0	1	205,168,276	205,168,276
Waste Oil	1	22,664	22,432	0	0	0
Total	48	309,398	33,053	33	2,007,988,426	2,007,100,426

*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 & methane	0	0	0	1	1,028,880	520,280
Wind	76	1,014,189	629,764	0	0	0
Solar	1	8,207	0	0	0	0
Total	77	1,022,396	629,764	1	1,028,880	520,280

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

**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	
Total	203	1,905,816,492	1,904,235,512	

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
Total	59	412,320	395,227	40	1,902,723,288	1,902,296,408

* 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
Total	103	1,627,204	1,062,637	1	1,053,680	481,240

* Only NEG available

**2004 Electric Utility
Qualifying Facilities Report**

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
Total	203	1,905,816,492	1,903,924,484

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
Total	59	412,320	84,199	40	1,902,723,288	1,902,296,408

*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
Total	103	1,627,204	1,062,637	1	1,053,680	481,240

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