

2019 Transmission-Distribution Substation Loading Summary^{NOTE1,NOTE2}

Area	Substation	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
C	15th Ave West	115/14 kV	39.30	14.20	23.21	eDNA Data Historian
C	Bear Creek	69/46 kV	10.90	-0.50	4.74	eDNA Data Historian Operated Networked
C	Big Rock	115/14 kV	5.20	2.50	3.25	eDNA Data Historian
C	Burnett	115/14 kV	1.80	0.36	N/A	Line Sensor
C	Canosia Road	115/14 kV	9.60	1.60	3.83	eDNA Data Historian
C	Cloquet	115/14 kV	32.47	11.97	19.92	eDNA Data Historian
C	Colbyville	115/14 kV	28.04	8.91	14.39	eDNA Data Historian
C	Floodwood	115/14 kV	2.26	0.45	N/A	Line Sensor
C	Four Corners	115/14 kV	13.08	4.11	6.85	eDNA Data Historian
C	French River	115/14 kV	4.80	1.20	2.27	eDNA Data Historian
C	Gary	115/14 kV	22.58	2.92	14.56	eDNA Data Historian
C	Haines Road	115/14 kV	27.76	11.18	16.40	eDNA Data Historian
C	Hibbard	115/14 kV	0.00	0.00	0.00	eDNA Data Historian
C	Hinckley East	69/46 kV	5.15	2.36	3.03	eDNA Data Historian Operated Networked
C	LSPI	115/14 kV	24.33	10.50	15.82	eDNA Data Historian
C	LSPI	115/34 kV	9.80	4.20	6.10	eDNA Data Historian
C	Mahtowa	115/23 kV	4.62	0.50	2.60	eDNA Data Historian
C	Mahtowa	115/46 kV	9.54	-1.76	2.44	eDNA Data Historian Operated Networked
C	Meadowlands	115/14 kV	1.10	0.22	N/A	Engineering Estimate
C	Midway	115/14 kV	6.59	1.34	2.13	eDNA Data Historian (Calc)
C	Ridgeview	115/14 kV	28.42	8.67	17.21	eDNA Data Historian
C	Silver Bay Hillside	115/14 kV	4.15	0.10	2.12	eDNA Data Historian (Calc)
C	Swan Lake	115/34 kV	14.80	7.40	9.20	eDNA Data Historian
C	Swan Lake	115/14 kV	17.80	7.50	10.47	eDNA Data Historian
C	Taft	115/34 kV	6.78	2.01	3.15	eDNA Data Historian
C	Thomson	115/14 kV	6.16	1.86	3.30	eDNA Data Historian
C	Thomson	115/46 kV	4.09	0.06	0.83	eDNA Data Historian
C	Two Harbors	115/14 kV	5.63	0.54	4.41	eDNA Data Historian (Calc)
C	Wrenshall	115/14 kV	4.34	0.91	1.99	eDNA Data Historian
N	Babbitt	115/46 kV	14.10	1.20	4.55	eDNA Data Historian Operated Networked
N	Big Fork Village	69/12 kV	1.70	0.60	0.93	eDNA Data Historian
N	Canisteo	115/14 kV	0.00	0.00	0.00	eDNA Data Historian
N	Diamond Lake	115/34 kV	0.00	0.00	0.00	eDNA Data Historian
N	Embarrass	115/23 kV	1.38	0.52	0.61	eDNA Data Historian
N	Hat Trick	115/23 kV	12.10	4.30	6.75	eDNA Data Historian
N	Hibbing	115/23 kV	40.15	16.29	24.00	eDNA Data Historian
N	International Falls	115/14 kV	13.19	4.23	7.88	eDNA Data Historian
N	Laskin	115/23 kV	2.97	0.43	1.49	eDNA Data Historian (Calc)
N	Laskin	115/46 kV	6.41	1.34	2.84	eDNA Data Historian (Calc)
N	Lind-Greenway	115/23 kV	5.01	1.20	2.47	eDNA Data Historian (Calc)
N	Maturi	115/34 kV	0.00	0.00	0.00	eDNA Data Historian
N	Maturi	115/23 kV	1.90	0.40	0.94	eDNA Data Historian
N	Nashwauk	115/23 kV	6.72	1.50	3.74	eDNA Data Historian
N	Tower	115/46 kV	14.80	1.10	4.10	eDNA Data Historian Operated Networked
N	Virginia	115/23 kV	22.23	4.75	11.90	eDNA Data Historian
N	Virginia	115/46 kV	11.30	2.90	6.12	eDNA Data Historian Operated Networked
N	Zemple	115/23 kV	2.40	0.90	1.48	eDNA Data Historian
W	Akeley	115/34 kV	23.00	5.80	9.58	eDNA Data Historian
W	Baxter	115/34 kV	10.94	3.76	5.27	eDNA Data Historian
W	Blanchard	115/34 kV	19.88	7.96	11.55	eDNA Data Historian
W	Dog Lake	115/34 kV	11.60	3.50	6.05	eDNA Data Historian
W	Eagle Valley	115/34 kV	13.30	4.80	7.12	eDNA Data Historian
W	Little Falls	115/34 kV	31.03	12.79	18.14	eDNA Data Historian

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Area	Substation	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
W	Long Prairie	115/34 kV	24.89	8.39	16.80	eDNA Data Historian
W	Pepin Lake	115/34 kV	13.90	4.80	7.19	eDNA Data Historian
W	Pequot Lakes	115/34 kV	11.40	4.00	5.92	eDNA Data Historian
W	Pine River	115/34 kV	5.80	1.20	2.96	eDNA Data Historian
W	Platte River	115/34 kV	5.30	0.60	2.68	eDNA Data Historian
W	Riverton	115/34 kV	16.41	6.75	9.26	eDNA Data Historian
W	Straight River	115/34 kV	2.90	0.50	1.19	eDNA Data Historian
W	Verndale	115/34 kV	37.11	12.06	18.98	eDNA Data Historian

NOTES

1. Values in table are non-coincident and shouldn't be added together
2. Values represent real power loading (MW) only; apparent power loading (MVA) will generally be slightly higher
3. Daytime Minimum corresponds to minimum hourly load between 0800-1800 where available or 20% of peak load where direct data is not available
4. Except as noted, values are based on hourly load data from the MP eDNA Data Historian at the distribution bus
5. Where possible, the effective load reduction from large-scale distribution-connected generation has been excluded

2019 Parent Feeder Loading Summary^{NOTE1,NOTE2}

Area	Substation	Feeder	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
C	Bear Creek - Hinckley	198 LINE	46 kV	7.18	3.24	4.22	eDNA Data Historian (Calc) Operated Networked
C	Bear Creek	23 LINE	46 kV	2.00	0.40	0.99	eDNA Data Historian
C	Bear Creek	59 LINE	46 kV	1.05	0.30	0.54	eDNA Data Historian (Calc) Radial to Anderson Corner
C	Mahtowa	59 LINE	46 kV	5.54	1.88	2.87	eDNA Data Historian (Calc)
C	Big Rock	BGR-272	14 kV	5.20	2.50	3.25	eDNA Data Historian
C	Big Rock	BGR-274	14 kV	N/A	N/A	N/A	Did not exist
C	Burnett	BUR-407	14 kV	0.25	0.05	N/A	Engineering Estimate
C	Burnett	BUR-408	14 kV	1.55	0.31	N/A	Line Sensor
C	Cloquet	CLQ-404	14 kV	9.78	1.94	6.09	eDNA Data Historian
C	Cloquet	CLQ-406	14 kV	10.40	4.61	6.20	eDNA Data Historian
C	Cloquet	CLQ-409	14 kV	9.26	3.54	4.84	eDNA Data Historian
C	Cloquet	CLQ-410	14 kV	4.31	1.62	2.62	eDNA Data Historian
C	Cloquet	CLQ-412	14 kV	0.33	0.05	0.18	eDNA Data Historian
C	Canosia Road	CNA-403	14 kV	2.90	0.50	0.81	eDNA Data Historian
C	Canosia Road	CNA-405	14 kV	5.20	1.60	2.51	eDNA Data Historian
C	Canosia Road	CNA-413	14 kV	3.70	1.00	0.51	eDNA Data Historian
C	Colbyville	COL-240	14 kV	9.78	2.82	4.20	eDNA Data Historian
C	Colbyville	COL-241	14 kV	4.49	1.47	2.22	eDNA Data Historian
C	Colbyville	COL-242	14 kV	7.01	2.87	3.98	eDNA Data Historian
C	Colbyville	COL-244	14 kV	5.10	1.96	2.79	eDNA Data Historian
C	Colbyville	COL-245	14 kV	1.73	1.09	1.21	eDNA Data Historian
C	Four Corners	FCS-214	14 kV	8.53	2.91	4.63	eDNA Data Historian
C	Four Corners	FCS-215	14 kV	5.84	1.09	2.21	eDNA Data Historian
C	15th Ave West	FIF-219	14 kV	7.30	0.10	3.53	eDNA Data Historian
C	15th Ave West	FIF-220	14 kV	1.90	0.70	1.15	eDNA Data Historian
C	15th Ave West	FIF-221	14 kV	3.50	0.10	0.76	eDNA Data Historian
C	15th Ave West	FIF-222	14 kV	0.40	0.00	0.13	eDNA Data Historian
C	15th Ave West	FIF-226	14 kV	3.60	1.00	1.75	eDNA Data Historian
C	15th Ave West	FIF-228	14 kV	3.40	1.20	2.06	eDNA Data Historian
C	15th Ave West	FIF-230	14 kV	5.40	2.70	3.50	eDNA Data Historian
C	15th Ave West	FIF-231	14 kV	2.10	0.30	0.95	eDNA Data Historian
C	15th Ave West	FIF-232	14 kV	0.00	0.00	0.00	eDNA Data Historian
C	15th Ave West	FIF-233	14 kV	3.90	0.00	0.17	eDNA Data Historian
C	15th Ave West	FIF-234	14 kV	0.50	0.10	0.19	eDNA Data Historian

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C	15th Ave West	FIF-260	14 kV	6.00	2.30	3.56	eDNA Data Historian
C	15th Ave West	FIF-261	14 kV	1.30	0.00	0.16	eDNA Data Historian
C	15th Ave West	FIF-264	14 kV	0.00	0.00	0.00	eDNA Data Historian
C	15th Ave West	FIF-265	14 kV	1.80	1.00	1.36	eDNA Data Historian
C	15th Ave West	FIF-266	14 kV	3.60	1.60	2.64	eDNA Data Historian
C	Floodwood	FLF-402	14 kV	2.26	0.45	N/A	Line Sensor
C	French River	FRR-275	14 kV	2.20	0.70	1.34	eDNA Data Historian
C	French River	FRR-276	14 kV	2.30	0.40	0.93	eDNA Data Historian
C	Gary	GRY-200	14 kV	3.31	1.23	1.96	eDNA Data Historian
C	Gary	GRY-201	14 kV	3.31	1.50	1.65	eDNA Data Historian
C	Gary	GRY-210	14 kV	4.57	0.33	3.28	eDNA Data Historian
C	Hinckley East	HKE-463	14 kV	2.86	1.11	1.59	eDNA Data Historian (Calc)
C	Haines Road	HNS-229	14 kV	6.71	3.02	4.23	eDNA Data Historian
C	Haines Road	HNS-235	14 kV	0.00	0.00	0.00	eDNA Data Historian
C	Haines Road	HNS-236	14 kV	9.76	3.43	5.12	eDNA Data Historian
C	Haines Road	HNS-237	14 kV	5.70	2.11	2.93	eDNA Data Historian
C	Haines Road	HNS-238	14 kV	3.09	0.59	1.39	eDNA Data Historian
C	Haines Road	HNS-239	14 kV	1.36	0.38	0.64	eDNA Data Historian
C	Haines Road	HNS-247	14 kV	2.56	1.19	2.05	eDNA Data Historian
C	LSPI	LSP-208	34 kV	9.80	4.20	6.10	eDNA Data Historian
C	LSPI	LSP-223	14 kV	8.72	3.52	4.88	eDNA Data Historian
C	LSPI	LSP-224	14 kV	3.84	0.26	1.09	eDNA Data Historian
C	LSPI	LSP-225	14 kV	5.99	2.70	3.71	eDNA Data Historian
C	LSPI	LSP-280	14 kV	4.85	1.16	3.01	eDNA Data Historian
C	LSPI	LSP-281	14 kV	3.44	1.29	2.08	eDNA Data Historian
C	LSPI	LSP-282	14 kV	0.79	0.28	0.44	eDNA Data Historian
C	Mahtowa	MAT-420	23 kV	4.62	0.50	2.60	eDNA Data Historian
C	Meadowlands	MDL-401	14 kV	1.10	0.22	N/A	Engineering Estimate
C	Midway	MDY-277	14 kV	3.95	0.80	1.28	eDNA Data Historian (Calc)
C	Midway	MDY-278	14 kV	2.63	0.53	0.85	eDNA Data Historian (Calc)
C	Hibbard	MLH-267	14 kV	0.00	0.00	0.00	eDNA Data Historian
C	Hibbard	MLH-268	14 kV	0.00	0.00	0.00	eDNA Data Historian
C	Hibbard	MLH-279	14 kV	0.00	0.00	0.00	eDNA Data Historian
C	Ridgeview	RGV-251	14 kV	1.60	0.40	0.76	eDNA Data Historian
C	Ridgeview	RGV-252	14 kV	7.80	3.30	4.62	eDNA Data Historian
C	Ridgeview	RGV-253	14 kV	8.86	1.06	3.05	eDNA Data Historian

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C	Ridgeview	RGV-254	14 kV	5.10	2.00	3.10	eDNA Data Historian
C	Ridgeview	RGV-255	14 kV	7.30	3.00	4.52	eDNA Data Historian
C	Ridgeview	RGV-256	14 kV	1.76	0.75	1.16	eDNA Data Historian
C	Silver Bay Hillside	SBH-271	14 kV	4.15	0.10	2.12	eDNA Data Historian (Calc)
C	Swan Lake	SLA-203	34 kV	14.80	7.40	9.20	eDNA Data Historian
C	Swan Lake	SLA-250	14 kV	8.70	3.50	4.67	eDNA Data Historian
C	Swan Lake	SLA-257	14 kV	3.50	1.40	2.03	eDNA Data Historian
C	Swan Lake	SLA-258	14 kV	7.10	2.20	3.77	eDNA Data Historian
C	Taft	TFT-202	34 kV	6.78	2.01	3.15	eDNA Data Historian
C	Thomson	TMS 23 LINE	46 kV	4.09	0.06	0.83	eDNA Data Historian
C	Thomson	TMS-412	14 kV	6.16	1.86	3.30	eDNA Data Historian
C	Two Harbors	TWH-273	14 kV	5.63	0.54	4.41	eDNA Data Historian (Calc)
C	Wrenshall	WRN-411	14 kV	4.34	0.91	1.99	eDNA Data Historian
N	Virginia-Tower	199 LINE	46 kV	3.50	1.00	2.83	eDNA Data Historian
N	Laskin	30 LINE	46 kV	6.05	1.50	2.55	eDNA Data Historian
N	Virginia	30 LINE	46 kV	3.06	0.53	2.25	eDNA Data Historian
N	Babbitt-Winton	31 LINE	46 kV	5.10	1.20	2.52	eDNA Data Historian
N	Tower-Winton	32 LINE	46 kV	9.80	2.80	4.56	eDNA Data Historian
N	Winton	33 LINE	46 kV	13.80	2.90	5.52	eDNA Data Historian
N	Laskin	AUR-313	23 kV	2.97	0.43	1.49	eDNA Data Historian (Calc)
N	Big Fork	BFV-1	12 kV	1.70	0.60	0.93	eDNA Data Historian
N	Canisteo	CNS-382	14 kV	0.00	0.00	0.00	eDNA Data Historian
N	Diamond Lake	DML-380	34 kV	0.00	0.00	0.00	eDNA Data Historian
N	Embarrass	EMB-317	23 kV	1.38	0.52	0.61	eDNA Data Historian
N	Grand Rapids	GRR-325	23 kV	0.40	0.10	0.16	eDNA Data Historian
N	Hat Trick	HAT-321	23 kV	8.00	2.50	4.08	eDNA Data Historian
N	Hat Trick	HAT-332	23 kV	5.20	1.60	2.67	eDNA Data Historian
N	Hibbing	HIB-307	23 kV	14.77	4.74	8.18	eDNA Data Historian
N	Hibbing	HIB-308	23 kV	5.49	1.74	3.41	eDNA Data Historian
N	Hibbing	HIB-310	23 kV	7.84	2.63	4.10	eDNA Data Historian
N	Hibbing	HIB-312	23 kV	7.34	0.28	2.45	eDNA Data Historian
N	Hibbing	HIB-315	23 kV	1.28	0.59	0.83	eDNA Data Historian
N	International Falls	INF-1	12 kV	2.39	0.86	1.30	eDNA Data Historian
N	International Falls	INF-2	12 kV	3.42	1.42	2.07	eDNA Data Historian
N	International Falls	INF-3	12 kV	5.19	2.02	2.84	eDNA Data Historian
N	International Falls	INF-4	12 kV	2.73	1.14	1.58	eDNA Data Historian

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N	International Falls	INF-5	12 kV	0.16	0.05	0.08	eDNA Data Historian
N	Lind-Greenway	LGW-334	23 kV	3.89	0.78	N/A	Line Sensor
N	Lind-Greenway	LGW-335	23 kV	1.11	0.22	N/A	Engineering Estimate
N	Maturi	MTU-330	23 kV	1.90	0.40	0.94	eDNA Data Historian
N	Maturi	MTU-381	34 kV	0.00	0.00	0.00	eDNA Data Historian
N	Nashwauk	NAS-314	23 kV	2.97	1.13	1.57	eDNA Data Historian
N	Nashwauk	NAS-318	23 kV	0.11	0.02	0.02	eDNA Data Historian
N	Nashwauk	NAS-319	23 kV	3.69	1.19	2.15	eDNA Data Historian
N	Virginia	VRG-301	23 kV	2.09	0.94	1.68	eDNA Data Historian
N	Virginia	VRG-302	23 kV	5.20	2.07	3.12	eDNA Data Historian
N	Virginia	VRG-303	23 kV	1.84	0.94	1.19	eDNA Data Historian
N	Virginia	VRG-304	23 kV	0.77	0.24	0.42	eDNA Data Historian
N	Virginia	VRG-305	23 kV	0.00	0.00	0.00	eDNA Data Historian
N	Virginia	VRG-306	23 kV	10.48	4.38	4.08	eDNA Data Historian
N	Virginia	VRG-311	23 kV	2.84	0.81	1.42	eDNA Data Historian
N	Zemple	ZMP-335	23 kV	2.40	0.90	1.37	eDNA Data Historian
N	Zemple	ZMP-337	23 kV	1.40	0.80	0.10	eDNA Data Historian
W	Akeley	AKY-543	34 kV	9.60	3.00	5.11	eDNA Data Historian
W	Akeley	AKY-544	34 kV	8.90	1.50	3.29	eDNA Data Historian
W	Baxter	BAX-531	34 kV	5.29	1.66	2.49	eDNA Data Historian
W	Baxter	BAX-534	34 kV	5.70	1.97	2.78	eDNA Data Historian
W	Blanchard	BLD-508	34 kV	5.96	1.36	2.98	eDNA Data Historian
W	Blanchard	BLD-511	34 kV	6.79	1.62	3.45	eDNA Data Historian
W	Blanchard	BLD-521	34 kV	1.80	0.70	1.28	eDNA Data Historian
W	Blanchard	BLD-524	34 kV	7.21	2.60	3.83	eDNA Data Historian
W	Birch Lake	BLS-509	34 kV	8.80	1.80	3.40	eDNA Data Historian
W	Birch Lake	BLS-516	34 kV	2.00	0.30	1.09	eDNA Data Historian
W	Blueberry	BLU-552	34 kV	7.90	2.50	4.08	eDNA Data Historian
W	Dog Lake	DOG-503	34 kV	11.60	3.50	6.05	eDNA Data Historian
W	Eagle Valley	EGV-513	34 kV	4.70	1.40	2.49	eDNA Data Historian
W	Eagle Valley	EGV-517	34 kV	8.90	2.90	4.63	eDNA Data Historian
W	Hubbard	HBB-523	34 kV	3.40	0.60	1.31	eDNA Data Historian
W	Little Falls	LFL-525	34 kV	8.09	2.61	4.23	eDNA Data Historian
W	Little Falls	LFL-526	34 kV	8.72	3.24	5.13	eDNA Data Historian
W	Little Falls	LFL-529	34 kV	12.24	4.50	6.12	eDNA Data Historian
W	Little Falls	LFL-536	34 kV	3.14	1.13	2.67	eDNA Data Historian

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W	Long Lake	LNG-540	34 kV	0.32	0.06	N/A	Engineering Estimate
W	Long Lake	LNG-541	34 kV	8.60	3.60	5.19	eDNA Data Historian
W	Long Lake	LNG-542	34 kV	7.20	2.20	4.56	eDNA Data Historian
W	Long Lake	LNG-545	34 kV	15.60	2.20	5.33	eDNA Data Historian
W	Long Prairie	LPR-501	34 kV	7.08	0.85	4.47	eDNA Data Historian
W	Long Prairie	LPR-527	34 kV	7.81	3.21	4.75	eDNA Data Historian
W	Long Prairie	LPR-535	34 kV	12.07	5.27	7.57	eDNA Data Historian
W	Platte River	PLA-546	34 kV	2.60	-0.50	1.15	eDNA Data Historian
W	Platte River	PLA-547	34 kV	3.50	0.40	1.53	eDNA Data Historian
W	Pine River	PNV-549	34 kV	4.10	1.50	2.27	eDNA Data Historian
W	Pine River	PNV-550	34 kV	1.90	0.10	0.70	eDNA Data Historian
W	Pepin Lake	PPL-514	34 kV	9.70	3.60	5.20	eDNA Data Historian
W	Pepin Lake	PPL-539	34 kV	4.30	1.10	1.99	eDNA Data Historian
W	Pequot Lakes	PQT-507	34 kV	3.60	1.00	2.07	eDNA Data Historian
W	Pequot Lakes	PQT-531	34 kV	8.20	2.70	3.85	eDNA Data Historian
W	Riverton	RVT-505	34 kV	5.03	2.01	2.89	eDNA Data Historian
W	Riverton	RVT-506	34 kV	6.79	2.60	3.49	eDNA Data Historian
W	Riverton	RVT-530	34 kV	3.55	1.20	2.36	eDNA Data Historian
W	Riverton	RVT-532	34 kV	1.69	0.14	0.52	eDNA Data Historian
W	Straight River	STG-551	34 kV	2.90	0.50	1.19	eDNA Data Historian
W	Sylvan	SYL-502	34 kV	0.50	0.10	0.26	eDNA Data Historian
W	Verndale	VRD-503	34 kV	9.05	3.42	5.33	eDNA Data Historian
W	Verndale	VRD-510	34 kV	4.88	1.36	2.34	eDNA Data Historian
W	Verndale	VRD-519	34 kV	3.70	0.55	1.71	eDNA Data Historian
W	Verndale	VRD-533	34 kV	18.24	5.77	9.61	eDNA Data Historian

NOTES

1. Values in table are non-coincident and shouldn't be added together
2. Values represent real power loading (MW) only; apparent power loading (MVA) will generally be slightly higher
3. Daytime Minimum corresponds to minimum hourly load between 0800-1800 where available or 20% of peak load where direct data is not available
4. Except as noted, values are based on hourly load data from the MP eDNA Data Historian
5. Where possible, the effective load reduction from large-scale distribution-connected generation has been excluded

2019 Stepdown Feeder Loading Summary^{NOTE1,NOTE2}

Area	Substation	Parent Feeder	Stepdown	Stepdown Feeder	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
C	Bear Creek	BCR 23 LINE	Askov	ASK-6521	12 kV	1.31	0.26	N/A	Line Sensor
C	Mahtowa	59 LINE	Barnum	BAR-6421	12 kV	2.39	0.48	N/A	Line Sensor
C	Four Corners	FCS-214	Caribou Lake	CBL-214	12 kV	0.95	0.19	N/A	Line Sensor
C	Cloquet	CLQ-409	Big Lake	CQB-6301	12 kV	1.20	0.24	N/A	Engineering Estimate
C	Mahtowa	59 LINE	Denham	DEN-6431	12 kV	3.20	0.64	N/A	Line Sensor
C	Taft	TFT-202	Fredenburg	FBG-269	14 kV	2.94	0.59	N/A	Line Sensor
C	Bear Creek	59 LINE	Anderson Corner	FIN-6511	12 kV	1.27	0.25	N/A	Line Sensor
C	LSPI	LSP-208	4th Ave West	FOR-262	14 kV	3.20	1.20	1.74	eDNA Data Historian
C	LSPI	LSP-208	4th Ave West	FOR-263	14 kV	3.50	1.20	1.92	eDNA Data Historian
C	Bear Creek - Hinckley	198 LINE	Hinckley West	HKZ-461	14 kV	1.61	0.32	N/A	Line Sensor
C	Bear Creek - Hinckley	198 LINE	Hinckley West	HKZ-462	14 kV	1.11	0.22	N/A	Line Sensor
C	Bear Creek	BCR 23 LINE	Kerrick	KER-6501	12 kV	0.65	0.13	N/A	Line Sensor
C	Mahtowa	MAT-420	Mahtowa	MAH-6411	12 kV	1.69	0.34	N/A	Line Sensor
C	Scanlon	SCH-420	Moorhead Rd	MHR-451	14 kV	1.30	0.26	N/A	Engineering Estimate
C	Thomson	TMS 23 LINE	Military Rd	MLT-414	14 kV	4.09	0.06	0.83	eDNA Data Historian
C	Swan Lake	SLA-203	9th Ave East	NIN-246	14 kV	2.80	1.30	1.86	eDNA Data Historian
C	Swan Lake	SLA-203	9th Ave East	NIN-248	14 kV	4.10	1.60	2.02	eDNA Data Historian
C	Mahtowa	MAT-420	Olsonville East	OLE-4471	4 kV	0.30	0.06	N/A	Engineering Estimate
C	Mahtowa	MAT-420	Olsonville West	OLW-4471	4 kV	0.30	0.06	N/A	Engineering Estimate
C	Taft	TFT-202	Pioneer Rd	PIO-270	14 kV	4.07	0.81	N/A	Line Sensor
C	Four Corners	FCS-214	Pike Lake	PLR-214	12 kV	0.48	0.10	N/A	Line Sensor
C	Scanlon	SCH-420	Sawyer	SAW-6311	12 kV	0.88	0.18	N/A	Line Sensor
C	Silver Bay Hillside	SBH-271	Silver Bay Townsite	SBT-4301	4 kV	1.16	0.23	N/A	Line Sensor
C	Silver Bay Hillside	SBH-271	Silver Bay Townsite	SBT-4302	4 kV	0.22	0.04	N/A	Engineering Estimate
C	Thomson	TMS-412	Scanlon	SCH-420	23 kV	2.40	0.60	1.19	eDNA Data Historian
C	Swan Lake	SLA-203	2nd Ave East	SND-217	14 kV	2.40	0.80	1.23	eDNA Data Historian
C	Swan Lake	SLA-203	2nd Ave East	SND-218	14 kV	0.80	0.10	0.32	eDNA Data Historian
C	Bear Creek - Hinckley	198 LINE	Sandstone	SNT-452	12 kV	4.76	2.15	2.80	eDNA Data Historian
C	Four Corners	FCS-215	Seville Rd	SVR-215	12 kV	2.52	0.50	N/A	Line Sensor
C	LSPI	LSP-208	25th Ave West	TFW-243	14 kV	0.50	0.10	0.17	eDNA Data Historian
C	Wrenshall	WRN-411	Wrenshall Riverside	WRR-6321	12 kV	1.41	0.28	N/A	Line Sensor
N	Embarrass	EMB-317	Aurora	AUN-1	4 kV	1.56	0.31	N/A	Engineering Estimate
N	Embarrass	EMB-317	Aurora	AUN-2	4 kV	1.74	0.35	N/A	Line Sensor
N	Babbitt	31 LINE	Babbitt Townsite	BAB-1	4 kV	1.70	0.34	N/A	Line Sensor
N	Babbitt	31 LINE	Babbitt Townsite	BAB-2	4 kV	0.74	0.15	N/A	Engineering Estimate
N	Hibbing	HIB-310	Balkan	BAL-1	12 kV	1.33	0.27	N/A	Line Sensor
N	Hibbing	HIB-310	Balkan	BAL-2	12 kV	0.29	0.06	N/A	Line Sensor
N	Embarrass	EMB-317	Biwabik	BIW-1	12 kV	1.63	0.33	N/A	Line Sensor
N	Embarrass	EMB-317	Biwabik	BIW-2	12 kV	1.94	0.39	N/A	Engineering Estimate
N	Hibbing	HIB-310	Chisholm	CHL-1	4 kV	2.32	0.46	N/A	Line Sensor
N	Hibbing	HIB-310	Chisholm	CHL-2	4 kV	1.19	0.24	N/A	Line Sensor

2019 Stepdown Feeder Loading Summary^{NOTE1,NOTE2}

Area	Substation	Parent Feeder	Stepdown	Stepdown Feeder	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
N	Hibbing	HIB-310	Chisholm	CHL-3	4 kV	2.54	0.51	N/A	Engineering Estimate
N	Lind-Greenway	LGW-335	Cohasset	COA-1	4 kV	0.15	0.03	N/A	Engineering Estimate
N	Lind-Greenway	LGW-334	Coleraine COE	COE-1	4 kV	0.15	0.03	N/A	Engineering Estimate
N	Lind-Greenway	LGW-334	Coleraine COF	COF-1	4 kV	0.30	0.06	N/A	Engineering Estimate
N	Zemple	ZMP-337	Deer River DRR	DRR-2	4 kV	1.47	0.29	N/A	Line Sensor
N	Zemple	ZMP-337	Deer River DRV	DRV-1	4 kV	0.03	0.01	N/A	Engineering Estimate
N	Zemple	ZMP-337	Deer River DRW	DRW-1	4 kV	0.03	0.01	N/A	Engineering Estimate
N	Babbitt	31 LINE	Dunka River	DUN-1	4 kV	0.37	0.07	N/A	Line Sensor
N	Hat Trick	HAT-321	Ely Lake Olaughlin EOQ	EOQ-1	4 kV	0.05	0.01	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Ely Lake Olaughlin EOS	EOS-1	4 kV	0.03	0.01	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Ely Lake Shady Lane	ESL-1	4 kV	0.03	0.01	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Eveleth	ESS-1	4 kV	2.35	0.47	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Eveleth	ESS-2	4 kV	0.73	0.15	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Ely Lake Woodlawn Pt	EWP-1	4 kV	0.02	0.00	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Half Moon Lake	HML-1	4 kV	0.13	0.03	N/A	Engineering Estimate
N	Laskin	AUR-313	Hoyt Lakes	HYN-1	4 kV	0.52	0.10	N/A	Line Sensor
N	Laskin	AUR-313	Hoyt Lakes	HYN-2	4 kV	1.70	0.34	N/A	Line Sensor
N	Virginia	VRG-311	Iron Bowl North	IBN-1	4 kV	0.07	0.01	N/A	Engineering Estimate
N	Virginia	VRG-311	Iron Bowl South	IBS-1	4 kV	0.07	0.01	N/A	Engineering Estimate
N	Virginia	VRG-311	Iron	INJ-1	12 kV	1.18	0.24	N/A	Line Sensor
N	Hibbing	HIB-315	Kelly Lake	KLY-1	4 kV	0.59	0.12	N/A	Line Sensor
N	Laskin	AUR-313	Laskin Energy Park	LEP-1	4 kV	0.75	0.15	N/A	Engineering Estimate
N	Nashwauk	NAS-319	Marble	MAR-1	4 kV	0.58	0.12	N/A	Line Sensor
N	Hat Trick	HAT-332	Eveleth OHV	OHV-1	4 kV	0.02	0.00	N/A	Engineering Estimate
N	Nashwauk	NAS-319	Pengilly North	PNN-1	4 kV	0.15	0.03	N/A	Engineering Estimate
N	Nashwauk	NAS-319	Pengilly South	PNS-1	4 kV	0.15	0.03	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Rural Camp Warren	RCW-1	4 kV	0.05	0.01	N/A	Engineering Estimate
N	Hat Trick	HAT-321	Rural Long Lake Rd	RLL-1	4 kV	0.01	0.00	N/A	Engineering Estimate
N	Winton	33 LINE	St. Croix	STC-1	12 kV	0.41	0.08	N/A	Line Sensor
N	Winton	33 LINE	St. Croix	STC-2	12 kV	1.59	0.32	N/A	Line Sensor
N	Maturi	MTU-330	Stuntz	STZ-1	4 kV	0.39	0.08	N/A	Engineering Estimate
N	Maturi	MTU-330	Stuntz	STZ-2	4 kV	0.70	0.14	N/A	Line Sensor
N	Maturi	MTU-330	Spudville East	SVE-1	4 kV	0.09	0.02	N/A	Engineering Estimate
N	Maturi	MTU-330	Spudville West	SVW-1	4 kV	0.30	0.06	N/A	Engineering Estimate
N	Hibbing	HIB-308	Stuntz Wilpen Bridge	SWB-1	4 kV	0.20	0.04	N/A	Engineering Estimate
N	Nashwauk	NAS-319	Taconite Village	TAC-1	4 kV	0.30	0.06	N/A	Engineering Estimate
N	Tower	32 LINE	Tower Soudan	TWN-1	12 kV	1.03	0.21	N/A	Engineering Estimate
N	Tower	32 LINE	Tower Soudan	TWN-2	12 kV	1.68	0.34	N/A	Line Sensor
N	Virginia	VRG-311	West Eveleth Hwy 101	WEH-1	4 kV	0.01	0.00	N/A	Engineering Estimate
W	Akeley	AKY-543	Akeley Dist	AKE-1	4 kV	1.10	0.22	N/A	Engineering Estimate
W	Verndale	VRD-503	Aldrich	ALD-1	4 kV	0.32	0.06	N/A	Engineering Estimate

2019 Stepdown Feeder Loading Summary^{NOTE1,NOTE2}

Area	Substation	Parent Feeder	Stepdown	Stepdown Feeder	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
W	Birch Lake	BLS-516	Backus	BAC-1	12 kV	2.20	0.44	N/A	Engineering Estimate
W	Long Prairie	LPR-535	Big Bear	BBR-1	12 kV	1.20	0.24	N/A	Engineering Estimate
W	Eagle Valley	EGV-513	Bertha	BER-1	12 kV	1.50	0.30	N/A	Engineering Estimate
W	Riverton	RVT-505	Black Hoof Lake	BHL-1	4 kV	0.70	0.14	N/A	Engineering Estimate
W	Verndale	VRD-510	Blue Grass	BLG-1	4 kV	0.08	0.02	N/A	Engineering Estimate
W	Eagle Valley	EGV-517	Browerville	BRW-1	12 kV	3.03	0.61	N/A	Engineering Estimate
W	Eagle Valley	EGV-517	Browerville	BRW-2	12 kV	3.45	0.69	N/A	Engineering Estimate
W	Blanchard	BLD-524	Bowlus	BSD-1	12 kV	0.28	0.06	N/A	Engineering Estimate
W	Blanchard	BLD-524	Bowlus	BSD-2	12 kV	1.39	0.28	N/A	Line Sensor
W	Eagle Valley	EGV-517	Clarissa	CLR-1	12 kV	2.20	0.44	N/A	Engineering Estimate
W	Eagle Valley	EGV-517	Clarissa	CLR-2	12 kV	0.20	0.04	N/A	Engineering Estimate
W	Blanchard	BLD-508	Camp Ripley Rural	CRS-1	12 kV	1.10	0.22	N/A	Engineering Estimate
W	Riverton	RVT-505	Crosby	CSB-1	4 kV	3.20	0.64	N/A	Engineering Estimate
W	Riverton	RVT-505	Crosby	CSB-2	4 kV	2.40	0.48	N/A	Engineering Estimate
W	Riverton	RVT-506	Cotton Tail Drive	CTD-1	12 kV	0.15	0.03	N/A	Engineering Estimate
W	Riverton	RVT-506	Cuyuna	CUY-1	4 kV	0.28	0.06	N/A	Engineering Estimate
W	Riverton	RVT-506	Deerwood	DER-1	12 kV	1.55	0.31	N/A	Line Sensor
W	Riverton	RVT-506	Deerwood	DER-2	12 kV	1.90	0.38	N/A	Engineering Estimate
W	Riverton	RVT-506	Deerwood Highway	DHY-1	12 kV	2.40	0.48	N/A	Engineering Estimate
W	Long Lake	LNG-540	Dorset	DOR-1	4 kV	0.32	0.06	N/A	Engineering Estimate
W	Long Lake	LNG-541	Explorer Circle	ECS-1	4 kV	0.15	0.03	N/A	Engineering Estimate
W	Eagle Valley	EGV-513	Eagle Bend	EGB-1	12 kV	1.70	0.34	N/A	Engineering Estimate
W	Pepin Lake	PPL-514	Flensburg	FLN-1	12 kV	0.15	0.03	N/A	Engineering Estimate
W	Pepin Lake	PPL-514	Flensburg	FLN-2	12 kV	0.65	0.13	N/A	Engineering Estimate
W	Sylvan	SYL-502	Fort Ripley	FTR-1	4 kV	0.25	0.05	N/A	Engineering Estimate
W	Pepin Lake	PPL-539	Grey Eagle	GES-1	12 kV	2.05	0.41	N/A	Engineering Estimate
W	Long Prairie	LPR-527	Gutches Grove	GGR-1	12 kV	2.69	0.54	N/A	Engineering Estimate
W	Blanchard	BLD-508	Ginger Rd	GIN-1	12 kV	1.28	0.26	N/A	Line Sensor
W	Baxter	BAX-531	Gull Lake	GLL-1	12 kV	1.30	0.26	N/A	Engineering Estimate
W	Baxter	BAX-531	Gull Lake	GLL-2	12 kV	1.41	0.28	N/A	Line Sensor
W	Birch Lake	BLS-509	Hackensack	HCS-1	12 kV	1.48	0.30	N/A	Engineering Estimate
W	Verndale	VRD-519	Hewitt	HEW-1	12 kV	0.70	0.14	N/A	Engineering Estimate
W	Baxter	BAX-531	Hole in the Day	HID-11	12 kV	0.76	0.15	N/A	Line Sensor
W	Long Prairie	LPR-535	Harts Press	HPS-1	12 kV	1.70	0.34	N/A	Engineering Estimate
W	Hubbard	HBB-523	Hubbard Dist	HUB-1	12 kV	0.33	0.07	N/A	Engineering Estimate
W	Riverton	RVT-505	Ironton	IRN-1	4 kV	0.46	0.09	N/A	Engineering Estimate
W	Pine River	PNV-549	Jenkins	JKS-1	12 kV	0.55	0.11	N/A	Engineering Estimate
W	Long Prairie	LPR-535	Lake Charlotte	LCH-1	12 kV	0.65	0.13	N/A	Engineering Estimate
W	Little Falls	LFL-529	Little Falls East Side	LFE-1	12 kV	1.68	0.34	N/A	Line Sensor
W	Little Falls	LFL-529	Little Falls Hospital	LFG-1	4 kV	1.57	0.31	N/A	Engineering Estimate
W	Little Falls	LFL-529	Little Falls South Side	LFS-1	4 kV	0.51	0.10	N/A	Engineering Estimate

2019 Stepdown Feeder Loading Summary^{NOTE1,NOTE2}

Area	Substation	Parent Feeder	Stepdown	Stepdown Feeder	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
W	Little Falls	LFL-525	Little Falls West Side	LFW-1	4 kV	1.85	0.37	N/A	Line Sensor
W	Little Falls	LFL-525	Little Falls West Side	LFW-2	12 kV	2.14	0.43	N/A	Line Sensor
W	Long Lake	LNG-541	Long Lake Park Rapids	LGL-1	4 kV	0.75	0.15	N/A	Engineering Estimate
W	Long Prairie	LPR-501	Long Prairie Rural	LGP-1	12 kV	0.81	0.16	N/A	Engineering Estimate
W	Pepin Lake	PPL-514	Long Lake Stepdown	LLK-1	12 kV	0.72	0.14	N/A	Engineering Estimate
W	Baxter	BAX-534	Lynch Lake	LNL-1	12 kV	0.20	0.04	N/A	Engineering Estimate
W	Long Prairie	LPR-527	Long Prairie Dist	LPD-1	4 kV	2.56	0.51	N/A	Engineering Estimate
W	Long Prairie	LPR-527	Long Prairie Dist	LPD-2	4 kV	0.58	0.12	N/A	Engineering Estimate
W	Long Prairie	LPR-535	Long Prairie North	LPN-1	12 kV	0.05	0.01	N/A	Engineering Estimate
W	Hubbard	HBB-523	Menahga	MEN-1	12 kV	0.54	0.11	N/A	Engineering Estimate
W	Dog Lake	DOG-503	Motley	MOT-1	12 kV	1.70	0.34	N/A	Engineering Estimate
W	Dog Lake	DOG-503	Motley	MOT-2	12 kV	0.52	0.10	N/A	Engineering Estimate
W	Long Lake	LNG-541	Mud Lake Stepdown	MSD-1	4 kV	0.07	0.01	N/A	Engineering Estimate
W	Akeley	AKY-544	Nevis	NEV-1	4 kV	1.63	0.33	N/A	Engineering Estimate
W	Pequot Lakes	PQT-531	Nisswa Pumping Station	NPS-1	12 kV	1.09	0.22	N/A	Line Sensor
W	Pequot Lakes	PQT-531	Nisswa	NSW-1	12 kV	1.29	0.26	N/A	Line Sensor
W	Pequot Lakes	PQT-531	Nisswa	NSW-2	12 kV	2.39	0.48	N/A	Line Sensor
W	Little Falls	LFL-525	Little Falls North Side	NTH-1	12 kV	2.20	0.44	N/A	Line Sensor
W	Little Falls	LFL-525	Little Falls North Side	NTH-2	12 kV	0.15	0.03	N/A	Engineering Estimate
W	Pequot Lakes	PQT-531	Northwest Gull Lake	NWG-1	12 kV	0.65	0.13	N/A	Line Sensor
W	Pequot Lakes	PQT-531	Northwest Gull Lake	NWG-2	12 kV	1.02	0.20	N/A	Line Sensor
W	Baxter	BAX-534	Pillager Dist	PIL-1	12 kV	1.22	0.24	N/A	Engineering Estimate
W	Long Lake	LNG-542	Park Rapids Dist #2	PKD-1	4 kV	2.13	0.43	N/A	Engineering Estimate
W	Long Lake	LNG-542	Park Rapids Dist #1	PKR-1	4 kV	2.61	0.52	N/A	Engineering Estimate
W	Baxter	BAX-534	Pine Beach	PNB-1	12 kV	1.21	0.24	N/A	Line Sensor
W	Baxter	BAX-534	Pine Beach	PNB-2	12 kV	1.50	0.30	N/A	Engineering Estimate
W	Pine River	PNV-550	Pine River Dist	PNR-1	12 kV	1.70	0.34	N/A	Engineering Estimate
W	Pine River	PNV-550	Pine River Dist	PNR-2	12 kV	1.50	0.30	N/A	Engineering Estimate
W	Pequot Lakes	PQT-507	Pequot Lakes Dist	PQL-1	12 kV	3.40	0.68	N/A	Engineering Estimate
W	Pequot Lakes	PQT-507	Pequot Lakes Dist	PQL-2	12 kV	2.97	0.59	N/A	Line Sensor
W	Long Lake	LNG-541	Park Rapids Hospital	PRH-1	4 kV	0.61	0.12	N/A	Engineering Estimate
W	Little Falls	LFL-526	Pierz-Genola	PZG-1	12 kV	2.64	0.53	N/A	Line Sensor
W	Little Falls	LFL-526	Pierz-Genola	PZG-2	12 kV	1.63	0.33	N/A	Line Sensor
W	Pequot Lakes	PQT-531	Round Lake	RDL-1	12 kV	0.80	0.16	N/A	Engineering Estimate
W	Pequot Lakes	PQT-531	Round Lake	RDL-2	12 kV	3.10	0.62	N/A	Line Sensor
W	Platte River	PLA-547	Rice	RIC-1	12 kV	1.34	0.27	N/A	Engineering Estimate
W	Blanchard	BLD-511	Royalton	ROY-1	12 kV	2.23	0.45	N/A	Line Sensor
W	Blanchard	BLD-511	Royalton	ROY-2	12 kV	0.40	0.08	N/A	Engineering Estimate
W	Little Falls	LFL-526	Rich Prairie	RPR-1	12 kV	0.89	0.18	N/A	Engineering Estimate
W	Riverton	RVT-532	Riverton Dist	RVD-1	12 kV	0.47	0.09	N/A	Engineering Estimate
W	Blueberry	BLU-552	Sebekia Nimrod	SEB-1	12 kV	1.75	0.35	N/A	Engineering Estimate

2019 Stepdown Feeder Loading Summary^{NOTE1,NOTE2}

Area	Substation	Parent Feeder	Stepdown	Stepdown Feeder	Voltage Class	Peak Load (MW)	Daytime Min (MW) ^{NOTE3}	Avg Load (MW)	Data Source ^{NOTE4}
W	Blueberry	BLU-552	Spirit Lake	SLS-1	12 kV	2.40	0.48	N/A	Engineering Estimate
W	Pine River	PNV-549	South Pine River	SPR-1	12 kV	1.56	0.31	N/A	Engineering Estimate
W	Dog Lake	DOG-503	Staples Rural	STR-1	12 kV	0.28	0.06	N/A	Engineering Estimate
W	Pepin Lake	PPL-514	Swanville	SWN-1	12 kV	2.27	0.45	N/A	Engineering Estimate
W	Riverton	RVT-530	Sylvan Dist	SYN-1	12 kV	0.30	0.06	N/A	Engineering Estimate
W	Birch Lake	BLS-509	Tenmile Lake	TML-1	12 kV	1.14	0.23	N/A	Engineering Estimate
W	Riverton	RVT-506	Trommald	TRM-1	4 kV	0.15	0.03	N/A	Engineering Estimate
W	Blanchard	BLD-524	Upsala	UPS-1	12 kV	0.80	0.16	N/A	Engineering Estimate
W	Blanchard	BLD-524	Upsala	UPS-2	12 kV	0.75	0.15	N/A	Engineering Estimate
W	Verndale	VRD-510	Verndale Dist	VND-1	4 kV	1.22	0.24	N/A	Engineering Estimate
W	Akeley	AKY-543	Walker #1	WAK-1	12 kV	3.82	0.76	N/A	Line Sensor
W	Akeley	AKY-543	Walker #2	WBK-1	12 kV	3.43	0.69	N/A	Line Sensor
W	Akeley	AKY-543	Walker Wye	WYE-1	12 kV	0.70	0.14	N/A	Engineering Estimate

NOTES

1. Values in table are non-coincident and shouldn't be added together
2. Values represent real power loading (MW) only; apparent power loading (MVA) will generally be slightly higher
3. Daytime Minimum corresponds to minimum hourly load between 0800-1800 where available or 20% of peak load where direct data is not available
4. Except as noted, values are based on hourly load data from the MP eDNA Data Historian