

2022 Loss Factors Effective 1 Jan 2022 (2021-11-30)

Document: Workbook Showing Calculations From Hourly Raw Loss Factors to Final Loss Factors for 2022, in Accordance With Subsection 3(2)(f) of Section 501.10 of ISO Rules, Transmission Loss Factors
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Location (MPID)	Facility Name	Area Name	Number	PSS/E Bus	Final Loss Factor
0000001511	FortisAlberta Reversing POD - Fort Macleod (15S)	Fort Macleod	53	4237	12.00%
0000006511	FortisAlberta Reversing POD - High River (65S)	High River	46	4242	2.90%
0000006711	FortisAlberta Reversing POD - Stirling (67S)	Glenwood	55	4280	6.14%
0000006811	FortisAlberta Reversing POD - Willesden Green (68S)	Drayton Valley	30	—	(1.17%)
0000010711	FortisAlberta Reversing POD - Westfield (107S)	Vauxhall	52	4277	9.73%
0000012111	FortisAlberta Reversing POD - Brooks (121S)	Brooks	47	3256	2.54%
0000013511	FortisAlberta Reversing POD - Conrad (135S)	Vauxhall	52	—	12.00%
0000013711	FortisAlberta Reversing POD - Sedgewick (137S)	Wainwright	32	4078	2.90%
0000015111	FortisAlberta Reversing POD - Strathmore (151S)	Strathmore	45	—	4.57%
0000015811	FortisAlberta Reversing POD - Vauxhall (158S)	Vauxhall	52	55374	5.46%
0000016301	FortisAlberta DOS - Plains Midstream Canada (163S)	Empress	48	262	8.54%
0000019811	FortisAlberta Reversing POD - Blackfalds (198S)	Red Deer	35	3113	2.90%
0000021411	FortisAlberta Reversing POD - Innisfail (214S)	Didsbury	39	557120	3.41%
0000022911	FortisAlberta Reversing POD - Glenwood (229S)	Glenwood	55	4245	12.00%
0000025411	FortisAlberta Reversing POD - Coaldale (254S)	Lethbridge	54	4690	6.49%
0000025511	FortisAlberta Reversing POD - Vulcan (255S)	Stavely	49	557120	11.24%
0000025611	FortisAlberta Reversing POD - Harmattan (256S)	Didsbury	39	124	1.50%
0000025711	FortisAlberta Reversing POD - Hull (257S)	Vauxhall	52	2401, 552402	6.37%
0000027511	FortisAlberta Reversing POD - Jenner (275S)	Empress	48	—	2.55%
0000027711	FortisAlberta Reversing POD - Hayter (277S)	Provost	37	220	(0.53%)
0000033111	FortisAlberta Reversing POD - Ponoka (331S)	Wetaskiwin	31	4090	3.22%
0000034911	FortisAlberta Reversing POD - Stavely (349S)	Stavely	49	4235	8.74%
0000036811	FortisAlberta Reversing POD - Burdett (368S)	Vauxhall	52	2269	9.46%
0000038511	FortisAlberta Reversing POD - Spring Coulee (385S)	Glenwood	55	4246	9.44%
0000039611	FortisAlberta Reversing POD - Pincher Creek (396S)	Fort Macleod	53	4224	11.54%
0000042111	FortisAlberta Reversing POD - Hays (421S)	Vauxhall	52	4401	5.10%
0000042811	FortisAlberta Reversing POD - Namaka (428S)	Strathmore	45	—	5.55%
0000049211	FortisAlberta Reversing POD - Monarch (492S)	Lethbridge	54	—	5.56%
0000049811	FortisAlberta Reversing POD - Tilley (498S)	Brooks	47	3275	4.32%
0000052611	FortisAlberta Reversing POD - Buffalo Creek (526S)	Wainwright	32	4079	(2.78%)
0000065911	FortisAlberta Reversing POD - Pegasus (659S)	Swan Hills	26	325	(2.02%)
0000079301	FortisAlberta DOS - Cochrane EV Partnership (793S)	Seebe	44	191	2.90%
0000089511	FortisAlberta Reversing POD - Sunfield (895S)	Medicine Hat	4	3270	1.18%
311S033N	ATCO Electric Reversing POD - Lynworth (731S)	Grande Prairie	20	19134	(9.87%)
312S008N	ATCO Electric Reversing POD - Lycroft (730S)	Grande Prairie	20	19100	(12.00%)
312S025N	ATCO Electric Reversing POD - Mowat (2033S)	Grande Prairie	20	19116	(9.99%)
321S009N	ATCO Electric Reversing POD - Carmon (830S)	Peace River	19	19083	(3.63%)
321S033	ATCO Electric DOS - Mercer Peace River (839S)	Peace River	19	1088	12.00%
325S009N	ATCO Electric Reversing POD - Hotchkiss (788S)	Peace River	19	19050	0.58%
372S025N	ATCO Electric Reversing POD - Lindbergh (969S)	Cold Lake	28	1444	8.41%
AFG1TX	APF Athabasca	Athabasca	27	392	(4.95%)
AKE1	McGring Lake Wind Facility	Fort Macleod	53	901	9.60%
ANC1	Alberta Newsprint	Swan Hills	26	298	(0.67%)
ARD1	Ardenville Wind Facility	Fort Macleod	53	739	7.62%
BAR	Barrier Hydro Facility	Seebe	44	216	1.96%
BCR2	Bear Creek #2	Grande Prairie	20	1142	(6.78%)
BCR1	Bear Creek #1	Grande Prairie	20	1142	(8.57%)
BIG	Bighorn Hydro Facility	Abraham Lake	34	103	2.48%
BPW	Bears paw Hydro Facility	Seebe	44	184	1.00%
BR4	Battle River #4	Alliance	36	1491	3.29%
BR5	Battle River #5	Alliance	36	1469	2.57%
BRA	Brazeau Hydro Facility	Drayton Valley	30	153	1.97%
BSR1	Blackspring Ridge Wind Facility	Stavely	49	736	6.82%
BTR1	Blue Trail Wind Facility	Fort Macleod	53	328	7.57%
CAS	Cascade Hydro Facility	Seebe	44	175	0.42%
CES1/CES2	Calgary Energy Centre	Calgary	6	187	2.46%
CHIN	Chin Chute Hydro Facility	Lethbridge	54	406	5.49%
CL01	Cenovus Christina Lake Industrial System	Fort McMurray	25	879	4.36%

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Location (MPID)	Facility Name	Area Name	Number	PSS/E Bus	Final Loss Factor
CLR1	Claresholm Solar A Facility	Stavelly	49	99004	9.89%
CLR2	Claresholm Solar B Facility	Stavelly	49	99004	9.47%
CMH1	City of Medicine Hat	Medicine Hat	4	976	6.44%
CNR5	CNRL Horizon Industrial System	Fort McMurray	25	1263	5.07%
CR1	Castle River #1 Wind Facility	Fort Macleod	53	234	7.96%
CRE3	Cowley Ridge Wind Facility	Fort Macleod	53	264	10.50%
CRR1	Castle Rock Ridge Wind Facility	Fort Macleod	53	221	7.91%
CRR2	Castle Rock Ridge Phase 2 Wind Facility	Fort Macleod	53	221	8.19%
CRS1	Crossfield Energy Centre #1	Airdrie	57	503	3.67%
CRS2	Crossfield Energy Centre #2	Airdrie	57	503	3.67%
CRS3	Crossfield Energy Centre #3	Airdrie	57	503	3.89%
DAI1	Daishowa-Marubeni	Peace River	19	1089	(5.94%)
DOWGEN15M	Dow Hydrocarbon Industrial Complex	Fort Saskatchewan	33	61	3.60%
DRW1	Drywood #1	Glenwood	55	4226	6.83%
EAGL	Whitcourt Power	Swan Hills	26	410	(3.35%)
ECO1	Cavalier	Strathmore	25	340	2.75%
ECO4	Foster Creek Industrial System	Cold Lake	28	1301	5.45%
EGC1	Shepard	Calgary	6	772	3.19%
ENC1	Clover Bar #1	Edmonton	60	516	2.58%
ENC2	Clover Bar #2	Edmonton	60	516	2.52%
ENC3	Clover Bar #3	Edmonton	60	516	2.73%
FH1	Fort Hills Industrial System	Fort McMurray	25	1612	3.73%
FNG1	Fort Nelson	Rainbow Lake	17	20000	1.67%
GHO	Ghost Hydro Facility	Seebe	44	180	0.89%
GN1	Genesee #1	Lake Wabamun	40	525	3.49%
GN2	Genesee #2	Lake Wabamun	40	525	3.50%
GN3	Genesee #3	Lake Wabamun	40	525	3.26%
GPEC	Grande Prairie EcoPower	Grande Prairie	20	1101	(8.04%)
GWW1	Soderglen Wind Facility	Fort Macleod	53	358	7.81%
HAL1	Halkirk Wind Facility	Hanna	42	1435	2.08%
HRM	H. R. Milner	Grande Cache	22	1147	0.46%
HRT1	Heartland Petrochemical Complex Industrial System	Fort Saskatchewan	33	—	3.49%
HSH	Horseshoe Hydro Facility	Seebe	44	171	1.58%
IEW1	Summerview 1 Wind Facility	Fort Macleod	53	336	8.49%
IEW2	Summerview 2 Wind Facility	Fort Macleod	53	336	8.85%
INT	Interlakes Hydro Facility	Seebe	44	376	5.95%
IOR1	Cold Lake Industrial System	Cold Lake	28	1303	2.20%
IOR3	Kearl Oil Sands Industrial System	Fort McMurray	25	1610	2.90%
IOR4	Strathcona Refinery Industrial System	Edmonton	60	30694066	3.17%
KAN	Kananaskis Hydro Facility	Seebe	44	193	1.59%
KH2	Keephill #2	Lake Wabamun	40	420	3.49%
KH3	Keephill #3	Lake Wabamun	40	510	3.39%
KHW1	Kettle Hill Wind Facility	Fort Macleod	53	402	8.08%
MEG1	MEG Christina Lake Industrial System	Fort McMurray	25	405	3.23%
MKR1	Muskeg River Industrial System	Fort McMurray	25	1236	4.23%
MKRC	MacKay River Industrial System	Fort McMurray	25	1274	3.52%
NEP1	Ghost Pine Wind Facility	Hanna	42	603	2.32%
NOVA GEN 15M	Joffre Industrial System	Red Deer	35	383	1.07%
NPP1	Northern Prairie Power Project	Grande Prairie	20	1118	(12.00%)
NRG3	NRGreen	Swan Hills	26	1674	(5.01%)
NX01	Nexen Balzac	Calgary	6	198	1.81%
NX02	Nexen Long Lake Industrial System	Fort McMurray	25	1241	4.47%
OMRH	Oldman River Hydro Facility	Fort Macleod	53	230	5.89%
OWF1	Oldman 2 Wind Facility	Fort Macleod	53	543	8.36%
PH1	Poplar Hill #1	Grande Prairie	20	1118	(11.43%)
PMB1	West Pembina	Drayton Valley	30	4215	(1.08%)
POC	Pocaterra Hydro Facility	Seebe	44	329	4.61%
PR1	Primrose Industrial System	Cold Lake	28	800	5.58%

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Proj_1812	Forty Mile Granlea Wind Facility	Medicine Hat	4	—	8.82%
Proj_1853	FortisAlberta Reversing POD - Jenner (2755-2269L)	Empress	48	—	2.79%
Proj_1892	FortisAlberta Reversing POD - Jenner (2755-2323L)	Empress	48	—	2.79%
Proj_1909	Garden Plain Wind Facility	Hanna	42	—	2.90%
Proj_1978_2061_22	ATCO Electric Reversing POD - Michichi Creek (802S)	Hanna	42	—	4.92%
Proj_1982	EPCOR Reversing POD - Petrolia (Petrolia)	Edmonton	60	—	2.90%
Proj_2009_2341	Travers Solar Facility	Stavelly	49	—	4.40%
Proj_2059	ATCO Electric Reversing POD - Three Hills (770S)	Hanna	42	—	7.24%
Proj_2108	FortisAlberta Reversing POD - Entwistle (235S)	Wabamun	40	—	0.63%
Proj_2122	Cypress Wind Facility	Medicine Hat	4	—	7.27%
Proj_2194	FortisAlberta Reversing POD - East Crossfield (64S)	Airdrie	57	—	2.90%
Proj_2199	FortisAlberta Reversing POD - Jenner (2755-310LS)	Empress	48	—	2.68%
Proj_2216	FortisAlberta Reversing POD - Chappice Lake (649S)	Medicine Hat	4	—	6.07%
Proj_2249_2250	FortisAlberta Reversing POD - Empress (294S)	Empress	48	0	2.15%
Proj_2352	ATCO Electric Reversing POD - Ethel Lake (717S)	Cold Lake	28	—	2.90%
RB5	Rainbow #5	Rainbow Lake	27	83	(0.80%)
RIV1	Riverview Wind Facility	Fort Macleod	53	69221	8.03%
RTL1	Rattlesnake Ridge Wind Facility	Medicine Hat	4	—	6.99%
RUN	Rundle Hydro Facility	Seebe	44	195	0.96%
RYMD	Raymond Reservoir Hydro Facility	Glenwood	55	413	7.62%
S09N	ENMAX Reversing POD - 9 Substation (SS-9)	Calgary	6	4277	2.33%
SCL1	Syncrude Industrial System	Fort McMurray	25	1200	5.20%
SCR1	Suncor Industrial System	Fort McMurray	25	1200	2.77%
SCR2	Magrath Wind Facility	Glenwood	55	251	8.22%
SCR3	Chin Chute Wind Facility	Northbridge	54	389	7.12%
SCR4	Wintering Hills Wind Facility	Sheerness	43	759	3.92%
SCTG	Scotford Industrial System	Fort Saskatchewan	33	43	3.46%
SD4	Sundance #4	Lake Wabamun	40	135	(0.44%)
SD6	Sundance #6	Lake Wabamun	40	135	(0.29%)
SET1	South Edmonton Terminal	Edmonton	60	3436	3.11%
SH1	Sheerness #1	Sheerness	43	1481	2.99%
SH2	Sheerness #2	Sheerness	43	1486	3.14%
SHCG	Shell Caroline	Caroline	38	370	(12.00%)
SLP1	Slave Lake Pulp	High Prairie	21	1230	(4.45%)
SPR	Spray Hydro Facility	Seebe	44	310	0.45%
SUM1	Summerview Energy Storage Facility	Fort Macleod	53	336	2.90%
TAB1	Taber Wind Facility	Vauxhall	52	343	7.01%
TAY1	Taylor Hydro Facility	Glenwood	55	693	6.89%
TC01	Carseland Industrial System	Strathmore	45	5251	3.64%
TC02	Redwater Industrial System	Fort Saskatchewan	33	50	2.88%
THS	Three Sisters Hydro Plant	Seebe	44	379	2.90%
VVW1	Valleyview #1	Valleyview	23	1172	(4.23%)
VVW2	Valleyview #2	Valleyview	23	1172	(2.98%)
WEY1	Weyerhaeuser	Grande Prairie	20	1140	(8.73%)
WHT1	Whitla Wind Facility	Medicine Hat	4	60990	6.39%
WHT2	Whitla Phase 2 Wind Facility	Medicine Hat	4	60990	5.41%
WRW1	Windrise Wind Facility	Fort Macleod	53	—	6.50%
WS1	Westlock Power Plant	Athabasca/Lac La Biche	27	14	(1.25%)
BCHEX	Alberta-BC Interite - Export	WSCC	15	1520	0.65%
BCHIMP	Alberta-BC Interite - Import	WSCC	15	1520	4.10%
120SIMP	Alberta-Montana Intertie - Import	Glenwood	55	80000	6.36%
MTEXP	Alberta-Montana Intertie - Export	Glenwood	55	80000	—
SPCEXP	Alberta-Saskatchewan Intertie - Export	Empress	48	1473	2.29%
SPCIMP	Alberta-Saskatchewan Intertie - Import	Empress	48	1473	3.47%