

2021 Loss Factors Effective 1 Aug 2021 (2021-08-04)

Document: Workbook Showing Calculations From Hourly Raw Loss Factors to Final Loss Factors for 2021, 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	2.84%
0000006711	FortisAlberta Reversing POD - Stirling (67S)	Glenwood	55	4280	5.72%
0000010711	FortisAlberta Reversing POD - Westfield (107S) [Proj_2171]	Vauxhall	52	4277	5.47%
0000012111	FortisAlberta Reversing POD - Brooks (121S)	Brooks	47	3256	2.84%
0000013711	FortisAlberta Reversing POD - Sedgewick (137S)	Wainwright	32	4078	2.84%
0000015811	FortisAlberta Reversing POD - Vauxhall (158S)	Vauxhall	52	553274	2.61%
0000016301	FortisAlberta DOS - Plains Midstream Canada (163S)	Empress	48	262	6.54%
0000019811	FortisAlberta Reversing POD - Blackfalds (198S)	Red Deer	35	3113	2.84%
0000021411	FortisAlberta Reversing POD - Innisfail (214S)	Didsbury	39	557120	(12.00%)
0000022911	FortisAlberta Reversing POD - Glenwood (229S)	Glenwood	55	4245	11.71%
0000025411	FortisAlberta Reversing POD - Coaldale (254S)	Lethbridge	54	4690	3.81%
0000025611	FortisAlberta Reversing POD - Harmattan (256S)	Didsbury	39	124	0.73%
0000025711	FortisAlberta Reversing POD - Hull (257S)	Vauxhall	52	2401, 552402	2.58%
0000027511	FortisAlberta Reversing POD - Jenner (275S) [Proj_1840]	Empress	48	—	2.84%
0000027711	FortisAlberta Reversing POD - Hayter (277S)	Provost	37	220	(1.05%)
0000033111	FortisAlberta Reversing POD - Ponoka (331S)	Wetaskiwin	31	4090	(8.77%)
0000034911	FortisAlberta Reversing POD - Stavely (349S)	Stavely	49	4235	(4.21%)
0000036811	FortisAlberta Reversing POD - Burdett (368S) [Proj_1849_22]	Vauxhall	52	2269	4.79%
0000038511	FortisAlberta Reversing POD - Spring Coulee (385S)	Glenwood	55	4246	4.74%
0000039611	FortisAlberta Reversing POD - Pincher Creek (396S)	Fort Macleod	53	4224	12.00%
0000042111	FortisAlberta Reversing POD - Hays (421S)	Vauxhall	52	4401	2.32%
0000042811	FortisAlberta Reversing POD - Namaka (428S)	Strathmore	45	—	5.38%
0000045411	FortisAlberta Reversing POD - Buck Lake (454S)	Drayton Valley	30	4080	2.84%
0000052611	FortisAlberta Reversing POD - Buffalo Creek (526S)	Wainwright	32	4079	(12.00%)
0000065911	FortisAlberta Reversing POD - Pegasus (659S)	Swan Hills	26	325	(1.96%)
0000079301	FortisAlberta DOS - Cochrane EV Partnership (793S)	Seebe	44	191	2.84%
0000089511	FortisAlberta Reversing POD - Suffield (895S)	Medicine Hat	4	3270	3.69%
3115033N	ATCO Electric Reversing POD - Elmsworth (731S)	Grande Prairie	20	19134	(11.98%)
3125008N	ATCO Electric Reversing POD - Rycroft (730S)	Grande Prairie	20	19100	(12.00%)
3125025N	ATCO Electric Reversing POD - Mowat (2033S)	Grande Prairie	20	19116	(10.94%)
3215009N	ATCO Electric Reversing POD - Carmon (830S)	Peace River	19	19083	(3.65%)
3215033	ATCO Electric DOS - Daishowa-Marubeni (839S)	Peace River	19	1088	12.00%
3255009N	ATCO Electric Reversing POD - Hotchkiss (788S)	Peace River	19	19050	(1.41%)
3725025N	ATCO Electric Reversing POD - Lindbergh (969S)	Cold Lake	28	1444	(4.96%)
AFG1TX	APF Athabasca	Athabasca/Lac La Biche	27	392	(4.71%)
AKE1	McBride Lake Wind Facility	Fort Macleod	53	901	7.99%
ANC1	Alberta Newsprint	Swan Hills	26	298	(1.61%)
ARD1	Ardenville Wind Facility	Fort Macleod	53	739	6.22%
BAR	Barrier Hydro Facility	Seebe	44	216	(0.79%)
BCR2	Bear Creek #2	Grande Prairie	20	1142	(9.75%)
BCRK	Bear Creek #1	Grande Prairie	20	1142	(11.33%)
BIG	Bighorn Hydro Facility	Abraham Lake	34	103	2.06%
BPW	Bears paw Hydro Facility	Seebe	44	184	(0.32%)
BR4	Battle River #4	Alliance	36	1491	3.24%
BR5	Battle River #5	Alliance	36	1469	3.50%
BRA	Brazeau Hydro Facility	Drayton Valley	30	153	1.66%
BSR1	Blackspring Ridge Wind Facility	Stavely	49	736	5.10%
BTR1	Blue Trail Wind Facility	Fort Macleod	53	328	6.21%
CAS	Cascade Hydro Facility	Seebe	44	175	(3.11%)
CES1/CES2	Calgary Energy Centre	Calgary	6	187	1.63%
CHIN	Chin Chute Hydro Facility	Lethbridge	54	406	3.33%
CL01	Cenovus Christina Lake Industrial System	Fort McMurray	25	879	3.76%
CLR1	Claresholm Solar A Facility [Proj_1879]	Stavely	49	99004	8.63%
CLR2	Claresholm Solar B Facility	Stavely	49	99004	8.09%
CMH1	City of Medicine Hat	Medicine Hat	4	976	4.42%
CNR5	CNRL Horizon Industrial System	Fort McMurray	25	1263	5.13%
CR1	Castle River #1 Wind Facility	Fort Macleod	53	234	6.61%

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CRE3	Cowley Ridge Wind Facility	Fort Macleod	53	264	9.51%
CRR1	Castle Rock Ridge Wind Facility	Fort Macleod	53	221	6.63%
CRR2	Castle Rock Ridge Phase 2 Wind Facility	Fort Macleod	53	221	7.23%
CRS1	Crossfield Energy Centre #1	Airdrie	57	503	2.88%
CRS2	Crossfield Energy Centre #2	Airdrie	57	503	2.56%
CRS3	Crossfield Energy Centre #3	Airdrie	57	503	2.83%
DAI1	Daishowa-Marubeni	Peace River	19	1089	(5.79%)
DOWGEN15M	Dow Hydrocarbon Industrial Complex	Fort Saskatchewan	33	61	3.81%
DRW1	Drywood #1	Glenwood	55	4226	3.56%
EAGL	Whitcourt Power	Swan Hills	26	410	(2.69%)
EC01	Cavalier	Strathmore	45	340	1.59%
EC04	Foster Creek Industrial System	Cold Lake	28	1301	4.93%
EGC1	Shepard	Calgary	6	772	2.38%
ENC1	Clover Bar #1	Edmonton	60	516	3.21%
ENC2	Clover Bar #2	Edmonton	60	516	3.19%
ENC3	Clover Bar #3	Edmonton	60	516	3.15%
FH1	Fort Hills Industrial System	Fort McMurray	25	1612	3.87%
FNG1	Fort Nelson	Rainbow Lake	17	20000	4.85%
GHO	Ghost Hydro Facility	Seebe	44	180	(0.60%)
GN1	Genesee #1	Lake Wabamun	40	525	4.02%
GN2	Genesee #2	Lake Wabamun	40	525	3.97%
GN3	Genesee #3	Lake Wabamun	40	525	3.89%
GPEC	Grande Prairie EcoPower	Grande Prairie	20	1101	(10.41%)
GWW1	Soderglen Wind Facility	Fort Macleod	53	358	6.29%
HAL1	Halkirk Wind Facility	Hanna	42	1435	3.35%
HRM	H. R. Milner	Grande Cache	22	1147	(7.66%)
HSH	Horseshoe Hydro Facility	Seebe	44	171	(0.72%)
IEW1	Summerview 1 Wind Facility	Fort Macleod	53	336	7.19%
IEW2	Summerview 2 Wind Facility	Fort Macleod	53	336	7.58%
INT	Interlakes Hydro Facility	Seebe	44	376	1.62%
IOR1	Cold Lake Industrial System	Cold Lake	28	1303	1.57%
IOR3	Kearl Oil Sands Industrial System	Fort McMurray	25	1610	2.84%
IOR4	Strathcona Refinery Industrial System	Edmonton	60	3069, 4066	2.84%
KAN	Kananaskis Hydro Facility	Seebe	44	193	(0.62%)
KH1	Keephills #1	Lake Wabamun	40	420	4.72%
KH2	Keephills #2	Lake Wabamun	40	420	4.74%
KH3	Keephills #3	Lake Wabamun	40	510	3.86%
KHW1	Kettles Hill Wind Facility	Fort Macleod	53	402	6.74%
MEG1	MEG Christina Lake Industrial System	Fort McMurray	25	405	2.99%
MKR1	Muskeg River Industrial System	Fort McMurray	25	1236	4.65%
MKRC	MacKay River Industrial System	Fort McMurray	25	1274	4.02%
NEP1	Ghost Pine Wind Facility	Hanna	42	603	1.73%
NOVAGEN15M	Joffre Industrial System	Red Deer	35	383	1.02%
NPP1	Northern Prairie Power Project	Grande Prairie	20	1118	(12.00%)
NRG3	NRGreen	Swan Hills	26	1674	(5.20%)
NX01	Nexen Balzac	Calgary	6	198	1.00%
NX02	Nexen Long Lake Industrial System	Fort McMurray	25	1241	4.37%
OMRH	Oldman River Hydro Facility	Fort Macleod	53	230	4.27%
OWF1	Oldman 2 Wind Facility	Fort Macleod	53	543	7.09%
PH1	Poplar Hill #1	Grande Prairie	20	1118	(12.00%)
PMB1	West Pembina	Drayton Valley	30	4215	(12.00%)
POC	Pocaterra Hydro Facility	Seebe	44	329	0.58%
PR1	Primrose Industrial System	Cold Lake	28	800	6.69%
Proj_1647	Heartland Petrochemical Complex Industrial System	Fort Saskatchewan	33	—	3.40%
Proj_1831	FortisAlberta Reversing POD - Vulcan (255S)	Stavely	49	—	5.74%
Proj_1837	FortisAlberta Reversing POD - Tilley (498S)	Brooks	47	3275	3.62%
Proj_1851	FortisAlberta Reversing POD - Monarch (492S)	Lethbridge	54	—	4.60%
Proj_1918_1959	FortisAlberta Reversing POD - Conrad (135S)	Vauxhall	52	—	8.34%

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Proj_2009	Travers Solar Facility	Stavelly	49	—	6.10%
Proj_2029_2030	FortisAlberta Reversing POD - Strathmore (151S)	Strathmore	45	—	4.73%
Proj_2086	FortisAlberta Reversing POD - Brooks (121S-83L)	Brooks	47	3256	4.95%
Proj_2092	FortisAlberta Reversing POD - Brooks (121S-257LE)	Brooks	47	4256	4.46%
RB5	Rainbow #5	Rainbow Lake	17	83	1.62%
RIV1	Riverview Wind Facility	Fort Macleod	53	69221	6.59%
RTL1	Rattlesnake Ridge Wind Facility	Medicine Hat	4	—	2.78%
RUN	Rundle Hydro Facility	Seebe	44	195	(1.98%)
RYMD	Raymond Reservoir Hydro Facility	Glenwood	55	413	5.86%
SCL1	Syncrude Industrial System	Fort McMurray	25	1200	5.06%
SCR1	Suncor Industrial System	Fort McMurray	25	1200	3.46%
SCR2	Magrath Wind Facility	Glenwood	55	251	6.34%
SCR3	Chin Chute Wind Facility	Lethbridge	54	389	5.53%
SCR4	Wintering Hills Wind Facility	Sheernes	43	759	4.49%
SCTG	Scotford Industrial System	Fort Saskatchewan	33	43	3.40%
SD4	Sundance #4	Lake Wabamun	40	135	0.31%
SD5	Sundance #5	Lake Wabamun	40	135	2.84%
SD6	Sundance #6	Lake Wabamun	40	135	0.06%
SET1	South Edmonton Terminal	Edmonton	60	3436	1.27%
SH1	Sheerness #1	Sheernes	43	1481	5.32%
SH2	Sheerness #2	Sheernes	43	1486	5.29%
SHCG	Shell Caroline	Caroline	38	370	12.00%
SLP1	Slave Lake Pulp	High Prairie	21	1230	(6.75%)
SPR	Spray Hydro Facility	Seebe	44	310	(1.81%)
SUM1	Summerview Energy Storage Facility	Fort Macleod	53	336	4.50%
TAB1	Taber Wind Facility	Vauxhall	52	343	4.74%
TAY1	Taylor Hydro Facility	Glenwood	55	693	4.75%
TC01	Carseland Industrial System	Strathmore	45	5251	1.95%
TC02	Redwater Industrial System	Fort Saskatchewan	33	50	3.03%
THS	Three Sisters Hydro Plant	Seebe	44	379	2.84%
VVW1	Valleyview #1	Valleyview	23	1172	(4.73%)
VVW2	Valleyview #2	Valleyview	23	1172	(4.63%)
WEY1	Weyerhaeuser	Grande Prairie	20	1140	(7.44%)
WHT1	Whitla Wind Facility	Medicine Hat	4	60990	4.54%
WHT2	Whitla Phase 2 Wind Facility	Medicine Hat	4	60990	5.50%
WRW1	Windrise Wind Facility [Proj_2041]	Fort Macleod	53	—	5.71%
WST1	Westlock Power Plant	Athabasca/Lac La Biche	27	14	(1.44%)
BCHEXP	Alberta-BC Interite - Export	WSCC	15	1520	0.87%
BCHIMP	Alberta-BC Interite - Import	WSCC	15	1520	3.56%
MTEXP	Alberta-Montana Intertie - Export	Glenwood	55	80000	—
120SIMP	Alberta-Montana Intertie - Import	Glenwood	55	80000	5.55%
SPCEXP	Alberta-Saskatchewan Intertie - Export	Empress	48	1473	2.26%
SPCIMP	Alberta-Saskatchewan Intertie - Import	Empress	48	1473	5.07%