

June 16, 2011

To: AESO Loss Factor Stakeholder Group

**Re: Updates to 2011 Alberta Recalculated Loss Factors**

The AESO has identified additional changes affecting the 2011 loss factors. As a result the AESO has reissued the 2011 loss factors superseding the values communicated in our April 29, 2011 letter regarding “**2011 Recalculated Loss Factors**”. The complete list of system changes that have caused the “Final Alberta Loss Factors for 2011” posted November 5, 2010 to be recalculated and reissued are:

- A. The termination of Sundance Unit 1 and 2 (SD1,SD2)
- B. Shifts in in-service dates for:
  - 1) Keephills Unit 3, (KH3)
  - 2) Suncor Wintering Hills Wind Energy (Project 634)
  - 3) U of C Generation (Project 1112)
  - 4) Greengate Halkirk Wind Project (Project 723)
  - 5) Enel Alberta Castle Rock Wind Farm (Project 462)
  - 6) Fortis Alberta Al-Pac Pulp Mill (AFG1)
  - 7) Edmonton Region 240kV Line Upgrades (Project 786)
- C. Increases in capacity for:
  - 1) Spray (SPR)
  - 2) Fortis Alberta Al-Pac Pulp Mill (AFG1)

Please see Appendix A for the reissued 2011 loss factors. The effective date of these loss factors is July 1, 2011.

To view the changes in the 2011 GSO caused by the project updates listed above please reference Appendix A of the "2011 Recalculated Loss Factors - Complete Updates to 2011 GSO" at [www.aeso.ca](http://www.aeso.ca) > Transmission > Loss Factors > Generic Stacking Order > 2011 Actual.

Yours truly,

*Original signed by*

Fred Ritter, P.Eng.  
Technical Lead, Engineering

cc: Ashikur Bhuiya  
Ryan Fehr

## Appendix A : Reissued 2011 Recalculated Loss Factors



### 2011 Recalculated Alberta Loss Factors - 2011-06-16

MP-ID*	Facility Name	PSS/E Bus	Normalized and Compressed Loss Factor (%)	Loss Factor Asset	Difference % in Loss Factor to System Average
0000034911	ALTAGAS PARKLAND	4235	0.60	Gen	-3.96
ARD1	TRANSALTA ARDENVILLE WIND FARM	739	2.75	Gen	-1.81
0000025611	ALTAGAS HARMATTAN	4124	-0.31	Gen	-4.87
NX01	BALZAC	290	1.04	Gen	-3.51
BAR	BARRIER	216	-0.22	Gen	-4.78
BR3	BATTLE RIVER #3	1491	6.39	Gen	1.83
BR4	BATTLE RIVER #4	1491	6.39	Gen	1.83
BR5	BATTLE RIVER #5	1469	5.61	Gen	1.05
BCRK	BEAR CREEK G1	10142	-0.76	Gen	-5.32
BCR2	BEAR CREEK G2	10142	-0.76	Gen	-5.32
BPW	BEARSPAW	183	0.16	Gen	-4.40
BIG	BIGHORN	103	2.64	Gen	-1.92
BTR1	BLUE TRAIL WIND FARM	328	2.54	Gen	-2.02
BRA	BRAZEAU	56153	2.20	Gen	-2.36
GOC1	BRIDGE CREEK	19145	0.00	Gen	-4.56
0000045411	BUCK LAKE	80	3.49	Gen	-1.07
TC01	CARSELAND	5251	1.23	Gen	-3.33
CAS	CASCADE	175	-0.62	Gen	-5.18
CR1	CASTLE RIVER	234	2.05	Gen	-2.51
EC01	CAVAILIER	247	1.62	Gen	-2.94
CHIN	CHIN CHUTE	406	0.00	Gen	-4.56
CMH1	CITY OF MEDICINE HAT	680	1.24	Gen	-3.32
ENC1	CLOVER BAR 1	516	4.30	Gen	-0.26
ENC2	CLOVER BAR 2	516	4.30	Gen	-0.26
ENC3	CLOVER BAR 3	516	4.30	Gen	-0.26
CNR5	CNRL HORIZON	1263	5.55	Gen	0.99
CRE1	COWLEY EXPANSION 1	264	3.85	Gen	-0.71
CRE2	COWLEY EXPANSION 2	264	3.85	Gen	-0.71
CRE3	COWLEY NORTH	264	3.85	Gen	-0.71
PKNE	COWLEY RIDGE WIND POWER PHASE1	264	3.85	Gen	-0.71
CRWD	COWLEY RIDGE WIND POWER PHASE2	264	3.85	Gen	-0.71
DAI1	DIASHOWA	1088	0.17	Gen	-4.39
DKSN	DICKSON DAM 1	4006	0.00	Gen	-4.56
DOWGEN15M	DOW GTG	61	4.22	Gen	-0.34
DV1	DRAYTON VALLEY PL IPP	4332	0.00	Gen	-4.56
DRW1	DRYWOOD 1	4226	1.96	Gen	-2.60
CES1	ENMAX CALGARY ENERGY CENTRE CTG	187	1.25	Gen	-3.31
CES2	ENMAX CALGARY ENERGY CENTRE STG	187	1.25	Gen	-3.31
FNG1	FORT NELSON	1016	5.90	Gen	1.34
EC04	FOSTER CREEK G1	1301	5.67	Gen	1.11
0000001511	FT MACLEOD	4237	1.95	Gen	-2.61
GN1	GENESEE 1	525	5.81	Gen	1.25
GN2	GENESEE 2	525	5.81	Gen	1.25
GN3	GENESEE 3	525	5.81	Gen	1.25
GHO	GHOST	180	-0.32	Gen	-4.88
0000022911	GLENWOOD	4245	1.69	Gen	-2.87
GPEC	GRANDE PRAIRIE ECOPOWER CENTRE	1101	-1.07	Gen	-5.63
HSH	HORSESHOE	171	-0.26	Gen	-4.82
HRM	HR MILNER	1147	2.99	Gen	-1.57
INT	INTERLAKES	376	1.09	Gen	-3.47
KAN	KANANASKIS	193	-0.21	Gen	-4.77
KH1	KEEPPHILLS #1	420	6.38	Gen	1.82
KH2	KEEPPHILLS #2	420	6.38	Gen	1.82
KH3	KEEPPHILLS #3	610	5.80	Gen	1.24
KHW1	KETTLES HILL WIND ENERGY PHASE 2	402	2.29	Gen	-2.27
IOR1	MAHKESES COLD LAKE	56789	6.94	Gen	2.38
AKE1	McBRIDE	901	2.20	Gen	-2.36
MKRC	McKAY RIVER	1274	5.73	Gen	1.17
MEG1	MEG ENERGY	405	5.77	Gen	1.21
MKR1	MUSKEG	1236	5.83	Gen	1.27
NX02	NEXEN OPTI	1241	6.68	Gen	2.12
NP1	NORTHERN PRAIRIE POWER PROJECT	1120	-3.35	Gen	-7.91
NPC1	NORTHSTONE ELMWORTH	19134	-3.21	Gen	-7.77
NOVAGEN15M	NOVA JOFFRE	383	2.35	Gen	-2.21
OMRH	OLDMAN	230	2.26	Gen	-2.30
WEY1	P&G WEYERHAUSER	1141	-0.88	Gen	-5.44
0000039611	PINCHER CREEK	4224	2.19	Gen	-2.37

MP-ID*	Facility Name	PSS/E Bus	Normalized and Compressed Loss Factor (%)	Loss Factor Asset	Difference % in Loss Factor to System Average
POC	POCATERRA	214	0.41	Gen	-4.15
PH1	POPLAR HILL	1118	-3.30	Gen	-7.86
PR1	PRIMROSE	1302	4.49	Gen	-0.07
RB1	RAINBOW 1	1031	2.46	Gen	-2.10
RB2	RAINBOW 2	1032	1.88	Gen	-2.68
RB3	RAINBOW 3	1033	2.64	Gen	-1.92
RL1	RAINBOW 4	1035	3.08	Gen	-1.48
RB5	RAINBOW 5	1037	2.67	Gen	-1.89
RYMD	RAYMOND RESERVOIR	413	0.00	Gen	-4.56
TC02	REDWATER	50	3.99	Gen	-0.57
RUN	RUNDLE	56197	-0.25	Gen	-4.81
SH1	SHEERNESS #1	1484	4.76	Gen	0.21
SH2	SHEERNESS #2	1484	4.76	Gen	0.21
SHCG	SHELL CAROLINE	3370	0.14	Gen	-4.42
SCTG	SHELL SCOTFORD	43	3.97	Gen	-0.59
GWW1	SODERGLEN	358	2.74	Gen	-1.82
SPR	SPRAY	310	-0.32	Gen	-4.88
0000038511	SPRING COULEE	4246	0.06	Gen	-4.50
STMY	ST MARY IPP	3448	0.00	Gen	-4.56
0000006711	STIRLING	4280	1.43	Gen	-3.13
ST1	STURGEON 1	1166	0.27	Gen	-4.29
ST2	STURGEON 2	1166	0.27	Gen	-4.29
IEW1	SUMMERVIEW 1	336	2.64	Gen	-1.92
IEW2	SUMMERVIEW 2	336	2.64	Gen	-1.92
CRS1	SUMMIT CROSSFIELD ENERGY CENTRE	503	1.38	Gen	-3.18
CRS2	SUMMIT CROSSFIELD ENERGY CENTRE	503	1.38	Gen	-3.18
CRS3	SUMMIT CROSSFIELD ENERGY CENTRE	503	1.38	Gen	-3.18
SCR3	SUNCOR HILLRIDGE WIND FARM	389	1.53	Gen	-3.03
SCR2	SUNCOR MAGRATH	251	2.12	Gen	-2.44
SCR1	SUNCOR MILLENIUM	1208	5.94	Gen	1.38
SD3	SUNDANCE #3	135	4.84	Gen	0.28
SD4	SUNDANCE #4	135	4.84	Gen	0.28
SD5	SUNDANCE #5	135	4.84	Gen	0.28
SD6	SUNDANCE #6	135	4.84	Gen	0.28
SCL1	SYNCRUDE	1205	5.76	Gen	1.20
TAB1	TABER WIND	343	1.13	Gen	-3.43
TAY1	TAYLOR HYDRO	670	2.40	Gen	-2.16
TAY2	TAYLOR WIND PLANT	670	2.40	Gen	-2.16
THS	THREE SISTERS	379	-0.31	Gen	-4.87
VVW2	VALLEYVIEW 2	1172	0.96	Gen	-3.60
VVW1	VALLEYVIEW 1	1171	1.07	Gen	-3.49
WTRN	WATER IPP	3449	0.00	Gen	-4.56
0000040511	WAUPISOO	2417	-1.03	Gen	-5.59
WST1	WESGEN	14	0.00	Gen	-4.56
EAGL	WHITE COURT	410	0.00	Gen	-4.56
NEP1	GHOST PINE WIND FARM	603	4.10	Gen	-0.46
AFG1	FORTISALBERTA AL-PAC PULP MILL	2392	-2.96	Gen	-7.51
Project1112_1_GEN	UOFC GENERATOR	556	0.12	Gen	-4.44
Project634_1_GEN	SUNCOR WINERING HILLS	759	5.82	Gen	1.26
0000016301	Amoco Empress (163S)	262	0.75	DOS	-3.81
0000079301	ANG Cochrane (793S)	191	3.97	DOS	-0.59
341S025	Syncrude Standby (848S)	1200	-3.52	DOS	-8.08

Notes:

\* MP-ID - point where loss factors assessed

For loss factors, "-" means credit, "+" means charge

Loss factors effective from July 01, 2011 to December 31 2011.

System Average Losses, %: **4.56**

For more information, please visit [www.aeso.ca](http://www.aeso.ca)

### Tie Loss Factors

BC Tie	Transaction Type	Loss Factor (%)	Average Loss Charge (%)	Settlement LF (%)
	Import	0.93	0.98	1.92
Export	-	1.02	1.02	
SK Tie	Transaction Type	Loss Factor (%)	Average Loss Charge (%)	Settlement LF (%)
	Import	2.67	2.50	5.17
Export	-	2.30	2.30	