MP ID	Facility Name	Bus number	Voltage KV	FLL	FLM	Re FLP	calculate SML	d 2011 Ra	w Loss Fa	actors SPL	SPM	SPP	WNL	WNM	WNP
0000034911 0000025611	ALTAGAS PARKLAND ALTAGAS HARMATTAN	4235 4124	25 25	-0.71% -1.99%	-0.40% -1.65%	0.50%	-2.14% -1.91%	-1.90% -1.81%	-1.52% -1.66%	-0.67% -2.04%	-0.90% -1.94%	-1.45% -1.80%	-2.29% -2.72%	-1.38% -2.14%	-1.94% -2.05%
NX01	BALZAC BARRIER	290 216	138 138	-0.44% -2.58%	-0.28% -1.16%	0.45%	-1.24% -2.77%	-0.60%	0.28%	-0.44% -2.40%	-0.28% -1.38%	-0.24% -0.93%	-1.54% -3.12%	-0.90% -1.33%	-0.74% -0.72%
BAR BR3 BR4	BATTLE RIVER #3	1491 1491	138	4.50%	6.07%	6.39%	2.80%	-1.72% 4.67%	-0.95% 6.04%	4.53%	4.69%	4.75%	4.16%	5.17%	5.63%
BR5	BATTLE RIVER #4 BATTLE RIVER #5	1469	138 240	4.50% 3.67%	6.07% 5.09%	6.39% 5.57%	2.80%	4.67% 3.85%	6.04% 5.16%	4.53% 3.72%	4.69% 3.82%	4.75% 3.85%	4.16% 3.24%	5.17% 4.26%	5.63% 4.72%
BCRK BCR2	BEAR CREEK G1 BEAR CREEK G2	10142 10142	138 138	-3.63% -3.63%	-2.67% -2.67%	-2.00% -2.00%	-1.76% -1.76%	-2.26% -2.26%	-2.70% -2.70%	-3.17% -3.17%	-2.57% -2.57%	-1.97% -1.97%	-2.16% -2.16%	-2.26% -2.26%	-1.58% -1.58%
BPW BIG	BEARSPAW BIGHORN	183 103	13.2 138	-1.29% 1.06%	-1.21% 1.92%	-0.76% 2.73%	-1.75% 0.35%	-1.43% 0.84%	-0.91% 1.65%	-1.19% 0.36%	-1.27% 0.91%	-1.20% 1.40%	-2.21% -0.08%	-1.70% 1.18%	-1.60% 1.69%
BTR1 BRA	BLUE TRAIL WIND FARM BRAZEAU	328	138	1.12%	1.80%	3.11%	-0.81%	-0.05%	0.58%	1.03%	1.16%	0.44%	-0.29%	0.88%	0.66%
GOC1 0000045411	BRIDGE CREEK BUCK LAKE	19145 80	25 138	0.00% 1.81%	0.00% 1.71%	0.00% 1.22%	0.00% 2.25%	0.00% 2.18%	0.00% 1.95%	0.00% 1.43%	0.00% 1.56%	0.00% 1.52%	0.00% 1.59%	0.00% 1.58%	0.00% 1.42%
TC01 CAS	CARSELAND CASCADE	5251 175	138 138	-0.28% -3.15%	-0.15% -1.49%	0.62% -0.60%	-0.96% -3.23%	-0.49% -2.25%	0.23% -1.59%	-0.02% -2.91%	-0.04% -1.82%	-0.05% -1.32%	-1.34% -3.63%	-0.66% -1.65%	-0.58% -1.01%
CR1 EC01	CASTLE RIVER CAVAILIER	234 247	138 138	0.42% -0.85%	1.25% 0.41%	2.55% 2.26%	-1.33% -1.63%	-0.34% -0.13%	0.49% 2.24%	0.44%	0.79% 1.12%	0.25% 1.05%	-0.95% -1.57%	0.49% -0.30%	0.40% 0.11%
CHIN CMH1	CHIN CHUTE CITY OF MEDICINE HAT	406 680	138 138	0.00% -0.44%	0.00% 1.51%	0.00% 3.27%	0.00% -2.74%	0.00% -0.78%	0.00%	0.00% -0.27%	0.00%	0.00% -0.46%	0.00% -1.80%	0.00%	0.00% 0.57%
ENC1 ENC2	CLOVER BAR 1 CLOVER BAR 2	516 516	69 69	2.88% 2.88%	2.06% 2.06%	1.36% 1.36%	3.70% 3.70%	2.96% 2.96%	2.33%	2.57% 2.57%	2.55% 2.55%	2.45% 2.45%	3.13% 3.13%	2.55% 2.55%	2.39% 2.39%
ENC3 CNR5	CLOVER BAR 3 CNRL HORIZON	516 1263	69 240	2.88% 3.11%	2.06% 2.74%	1.36% 2.34%	3.70% 4.45%	2.96% 3.71%	2.33% 3.18%	2.57% 4.40%	2.55% 4.29%	2.45% 4.09%	3.13% 4.94%	2.55% 5.02%	2.39% 5.17%
CRE1 CRE2	COWLEY EXPANSION 1 COWLEY EXPANSION 2	264 264	69 69	2.47% 2.47%	3.80% 3.80%	5.22% 5.22%	-0.83% -0.83%	0.52% 0.52%	1.19% 1.19%	2.08%	2.72% 2.72%	1.42% 1.42%	0.80%	2.48% 2.48%	1.53% 1.53%
CRE3 PKNE	COWLEY NORTH COWLEY RIDGE WIND POWER PHASE1	264 264	69 69	2.47% 2.47%	3.80% 3.80%	5.22% 5.22%	-0.83% -0.83%	0.52% 0.52%	1.19% 1.19%	2.08%	2.72% 2.72%	1.42% 1.42%	0.80%	2.48% 2.48%	1.53% 1.53%
CRWD DAI1	COWLEY RIDGE WIND POWER PHASE2 DIASHOWA	264 1088	69 138	2.47%	3.80%	5.22%	-0.83% -0.74%	0.52%	1.19%	2.08%	2.72%	1.42%	0.80%	2.48%	1.53%
DKSN DOWGEN15M	DICKSON DAM 1 DOW GTG	4006 61	25 138	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
DV1 DRW1	DRAYTON VALLEY PL IPP DRYWOOD 1	4332 4226	25 4.16	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CES1 CES2	ENMAX CALGARY ENERGY CENTRE CTG ENMAX CALGARY ENERGY CENTRE STG	187 187	240 240	-0.39% -0.39%	-0.23% -0.23%	0.48%	-1.21% -1.21%	-0.58% -0.58%	0.28% 0.28%	-0.41% -0.41%	-0.27% -0.27%	-0.26% -0.26%	-1.52% -1.52%	-0.88% -0.88%	-0.73% -0.73%
FNG1 AFG1	FORT NELSON FORTISALBERTA AL-PAC PULP MILL	1016 2392	138 13.8	1.62% -4.40%	-0.23% 2.89% -4.97%	3.85% -6.47%	5.77% -3.03%	4.03%	0.28% 0.54% -5.86%	-0.41% -1.06% 0.00%	5.16% 0.00%	2.50% 0.00%	6.40% 0.00%	8.61% 0.00%	7.48% 0.00%
EC04	FOSTER CREEK G1	1301	138	3.79%	2.60%	-0.10%	5.01%	-5.06% 3.46%	2.81%	3.94%	3.90%	3.58%	5.14%	4.58%	4.33%
0000001511 GN1	FT MACLEOD GENESEE 1	4237 525	25 500	0.06% 4.42%	0.58% 3.59%	1.77% 2.90%	-1.73% 4.94%	-1.66% 4.44%	-1.13% 3.90%	0.07% 3.85%	3.80%	-0.74% 3.77%	-1.36% 4.48%	-0.29% 4.00%	-0.83% 3.77%
GN2 GN3	GENESEE 2 GENESEE 3	525 525	500 500	4.42%	3.59%	2.90%	4.94%	4.44%	3.90%	3.85%	3.80%	3.77%	4.48%	4.00%	3.77%
GHO NEP1	GHOST GHOST PINE WIND FARM	180 603	138 138	-2.28% 2.94%	-1.37% 3.88%	-0.77% 4.26%	-2.55% 0.79%	-1.81% 1.97%	-1.17% 2.62%	-2.16% 2.23%	-1.65% 2.04%	-1.36% 1.86%	-2.85% 1.78%	-1.74% 2.56%	-1.26% 2.62%
0000022911 GPEC	GLENWOOD GRANDE PRAIRIE ECOPOWER CENTRE	4245 1101	25 138	0.59% -3.81%	0.18% -2.94%	1.84% -2.27%	-0.21% -1.96%	-0.05% -2.47%	0.64% -2.92%	0.49% -3.35%	-0.14% -2.82%	-1.16% -2.22%	-2.22% -2.38%	-0.05% -2.53%	-1.78% -1.91%
HSH HRM	HORSESHOE HR MILNER	171 1147	138 138	-2.50% -0.34%	-1.18% 1.47%	-0.32% 2.03%	-2.70% 2.18%	-1.68% 1.96%	-0.94% 1.58%	-2.32% 0.45%	-1.39% 1.18%	-0.97% 2.16%	-3.06% 1.48%	-1.37% 1.66%	-0.79% 2.62%
INT KAN	INTERLAKES KANANASKIS	376 193	25 138	-2.42% -2.48%	0.70%	2.91% -0.29%	-2.90% -2.65%	-1.25% -1.64%	0.42% -0.89%	-1.99% -2.30%	-0.14% -1.37%	1.14% -0.94%	-2.81% -3.04%	1.04% -1.35%	2.50% -0.76%
KH1 KH2	KEEPHILLS #1 KEEPHILLS #2	420 420	240 240	4.99% 4.99%	4.31% 4.31%	3.75% 3.75%	5.33% 5.33%	5.04% 5.04%	4.69% 4.69%	4.38% 4.38%	4.41% 4.41%	4.45% 4.45%	4.92% 4.92%	4.61% 4.61%	4.43% 4.43%
KH3 KHW1	KEEPHILLS #3 KETTLES HILL WIND ENERGY PHASE 2	610 402	500 138	4.38% 0.82%	3.56% 1.55%	2.88%	4.90% -1.03%	4.40% -0.17%	3.86% 0.51%	3.80% 0.75%	3.76% 1.00%	3.73% 0.31%	4.42% -0.59%	3.95% 0.71%	3.72% 0.48%
IOR1 AKE1	MAHKESES COLD LAKE McBRIDE	901	138	1.02%	1.56%	2.83%	-1.05%	-0.68%	-0.45%	0.78%	0.83%	-0.07%	-0.72%	0.34%	-0.24%
MKRC MEG1	McKAY RIVER MEG ENERGY	1274 405	240 240	3.07%	2.69%	2.30%	4.43% 4.86%	3.68%	3.14% 3.25%	4.39% 4.52%	4.27% 4.30%	4.06% 4.35%	4.95% 5.22%	4.97% 5.03%	5.11% 4.78%
MKR1 NX02	MUSKEG NEXEN OPTI	1236 1241	240 138	3.20% 3.93%	2.87%	2.47% 3.22%	4.52% 5.86%	3.80% 5.03%	3.30% 4.24%	4.51% 5.69%	4.42%	4.23%	5.06% 6.54%	5.18% 6.46%	5.34%
NPP1 NPC1	NORTHERN PRAIRIE POWER PROJECT NORTHSTONE ELMWORTH	1120 19134	138 25	-6.41% -6.09%	-5.26% -5.12%	-3.24% -3.74%	-4.29% -3.99%	-4.59% -4.49%	-3.93% -4.31%	-5.81% -5.53%	-5.16% -4.98%	-4.31% -4.21%	-5.06% -4.71%	-5.03% -4.78%	-3.92% -3.94%
NOVAGEN15M OMRH	NOVA JOFFRE OLDMAN	383 230	138 138	0.61%	0.61%	0.95%	0.46%	0.90%	1.10%	0.82%	0.83%	0.95%	-0.08% -0.40%	0.38%	0.68%
WEY1 0000039611	P&G WEYERHAUSER PINCHER CREEK	1141 4224	13.8 25	-3.59% 0.71%	-2.67% 1.28%	-1.97% 2.72%	-1.76% -1.16%	-2.29% -0.20%	-2.74% 0.38%	-3.19% 0.69%	-2.58% 0.86%	-1.95% 0.08%	-2.14% -0.83%	-2.25% 0.66%	-1.56% 0.23%
POC PH1	POCATERRA POPLAR HILL	214 1118	13.8	-2.39% -6.42%	-0.50%	0.88%	-2.87%	-1.42% -4.59%	-0.20%	-1.99%	-0.60% -5.17%	0.04%	-2.92% -5.06%	-0.48%	0.42%
PR1 RB1	PRIMROSE	1302	138 138	2.72%	-5.27% 1.57%	-3.28% -1.22%	-4.29% 4.02%	2.65%	-3.97% 1.64%	-5.81% 2.88%	2.58%	-4.32% 2.41%	3.80%	-5.04% 3.23%	2.98%
RB2	RAINBOW 1 RAINBOW 2 RAINBOW 3	1031 1032	14.4	-1.71%	-0.93% -0.93%	0.35%	1.53%	0.43%	-1.74% -1.74%	-2.73% -2.73%	0.89%	-0.14%	3.41%	4.49% 4.49%	3.81%
RB3 RL1	RAINBOW 4	1033 1035	14.4 13.8	-1.53% -1.25%	-0.75% -0.36%	0.34%	1.79% 2.10%	0.53%	-1.73% -1.56%	-2.51% -2.22%	1.11%	-0.05% 0.27%	3.65% 4.09%	4.63% 5.06%	3.92% 4.32%
RB5 RYMD	RAINBOW 5 RAYMOND RESERVOIR	1037 413	14.4 69	-1.66% 0.00%	-0.87% 0.00%	0.44%	1.57% 0.00%	0.49%	-1.66% 0.00%	-2.68% 0.00%	0.94%	-0.08% 0.00%	3.47% 0.00%	4.56% 0.00%	3.91% 0.00%
TC02 RUN	REDWATER RUNDLE	50	138	2.38%	1.55%	0.84%	3.21%	2.35%	1.71%	2.20%	2.20%	2.07%	2.84%	2.28%	2.23%
SH1 SH2	SHEERNESS #1 SHEERNESS #2	1484 1484	240 240	3.10% 3.10%	4.90% 4.90%	6.46%	0.89%	2.92% 2.92%	4.95% 4.95%	2.77% 2.77%	3.07%	2.75% 2.75%	2.02%	3.62% 3.62%	4.22% 4.22%
SHCG SCTG	SHELL CAROLINE SHELL SCOTFORD	3370 43	25 138	-1.57% 2.47%	-1.26% 1.61%	-1.11% 0.90%	-1.58% 3.33%	-1.43% 2.41%	-1.30% 1.76%	-1.78% 2.29%	-1.52% 2.33%	-1.30% 2.14%	-2.26% 2.97%	-1.65% 2.36%	-1.55% 2.35%
GWW1 SPR	SODERGLEN SPRAY	358 310	138 138	1.44% -2.78%	2.14% -1.19%	3.48% -0.26%	-0.61% -2.95%	0.12% -1.87%	0.63% -1.15%	1.26% -2.60%	1.41% -1.47%	0.58% -0.96%	-0.13% -3.26%	1.08% -1.33%	0.75% -0.70%
0000038511 STMY	SPRING COULEE ST MARY IPP	4246 3448	25 25	0.67% 0.00%	0.49%	1.53% 0.00%	-0.03% 0.00%	0.00%	0.26% 0.00%	0.29% 0.00%	-0.42% 0.00%	-1.35% 0.00%	-2.18% 0.00%	-0.70% 0.00%	-2.12% 0.00%
0000006711 ST1	STIRLING STURGEON 1	4280 1166	25 69	-0.32% -2.32%	-0.01% -1.76%	0.73%	-1.42% -0.77%	-1.38% -1.31%	-1.27% -1.80%	-0.68% -1.98%	-1.07% -1.37%	-2.04% -1.15%	-2.69% -0.86%	-1.54% -1.09%	-2.33% -0.85%
ST2 IEW1	STURGEON 2 SUMMERVIEW 1	1166 336	69 138	-2.32% 1.03%	-1.76% 1.76%	-1.81% 3.05%	-0.77% -0.80%	-1.31% 0.01%	-1.80% 0.66%	-1.98% 1.17%	-1.37% 1.45%	-1.15% 0.64%	-0.86% -0.01%	-1.09% 1.34%	-0.85% 1.02%
IEW2 CRS1	SUMMERVIEW 2 SUMMIT CROSSFIELD ENERGY CENTRE	336 503	138 138	1.03%	1.76%	3.05%	-0.80% -0.51%	0.01%	0.66%	1.17%	1.45%	0.64%	-0.01% -1.52%	1.34%	1.02%
CRS2 CRS3	SUMMIT CROSSFIELD ENERGY CENTRE SUMMIT CROSSFIELD ENERGY CENTRE	503 503	138 138	-0.62% -0.62%	-0.47% -0.47%	0.00%	-0.51% -0.51%	1.29%	1.98%	-0.45% -0.45%	-0.02% -0.02%	0.41%	-1.52% -1.52%	-0.76% -0.76%	-0.34% -0.34%
SCR3 SCR2	SUNCOR HILLRIDGE WIND FARM SUNCOR MAGRATH	389 251	138 138	0.27%	1.00%	2.25% 2.52%	-0.51% -1.83% -0.46%	-1.28% -0.03%	-1.01% 0.22%	0.09%	0.09%	-0.75% -0.38%	-1.67% -1.06%	-0.76% -0.50% 0.06%	-0.50% -0.50%
SCR1	SUNCOR MILLENIUM	1208	240	3.11%	2.68%	2.32%	4.51%	3.75%	3.20%	4.59%	4.41%	4.20%	5.13%	5.13%	5.22%
Project634_1_GEN SD3	SUNCOR WINERING HILLS SUNDANCE #3	759 135	138 240	3.14% 2.93%	4.68% 2.62%	5.69% 2.24%	3.23%	2.89%	2.79%	0.00% 2.89%	0.00% 3.13%	3.07%	0.00% 3.99%	0.00% 3.59%	0.00% 3.63%
SD4 SD5	SUNDANCE #4 SUNDANCE #5	135 135	240 240	2.93%	2.62%	2.24%	3.23%	2.89%	2.79%	2.89%	3.13%	3.07%	3.99%	3.59%	3.63%
SD6 SCL1	SUNDANCE #6 SYNCRUDE	135 1205	240 240	2.93% 3.10%	2.62% 2.65%	2.24%	3.23% 4.49%	2.89% 3.73%	2.79% 3.17%	2.89% 4.57%	3.13% 4.40%	3.07% 4.16%	3.99% 5.10%	3.59% 5.10%	3.63% 5.19%
TAB1 TAY1	TABER WIND TAYLOR HYDRO	343 670	138 69	-0.09% 1.24%	0.92% 1.41%	2.35% 2.42%	-2.62% 0.30%	-2.11% 0.57%	-1.90% 0.82%	-0.27% 0.53%	-0.22% 0.31%	-1.20% -0.54%	-2.24% -1.25%	-1.04% -0.19%	-1.35% -0.75%
TAY2 THS	TAYLOR WIND PLANT THREE SISTERS	670 379	69 25	1.24% -2.82%	1.41% -0.90%	2.42% 0.08%	0.30% -3.13%	0.57% -1.98%	0.82% -1.10%	0.53% -2.82%	0.31% -1.72%	-0.54% -1.18%	-1.25% -3.32%	-0.19% -1.20%	-0.75% -0.40%
ARD1 Project1112_1_GEN	TRANSALTA ARDENVILLE WIND FARM UOFC GENERATOR	739 556	138 69	1.45% -1.24%	2.14% -1.34%	3.45% -0.80%	-0.57% -1.80%	0.18% -1.59%	0.82% -1.09%	1.35% -1.24%	1.47% -1.37%	0.75% -1.35%	0.11% -2.31%	1.28% -1.87%	1.06% -1.80%
VVW1 VVW2	VALLEYVIEW 1 VALLEYVIEW 2	1171 1172	13.8 138	-1.35% -1.34%	-1.03% -1.04%	-1.05% -1.05%	-0.11% -0.11%	-0.67% -0.67%	-1.10% -1.10%	-1.20% -1.20%	-0.54% -0.55%	-0.40% -0.42%	-0.07% -0.07%	-0.33% -0.34%	-0.03% -0.04%
WTRN 0000040511	WATER IPP WAUPISOO	3449 2417	25 25	0.00%	0.00% -3.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
WST1 EAGL	WESGEN WHITE COURT	14 410	13.8 69	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0000016301 0000079301	Amoco Empress (163S) ANG Cochrane (793S)	262 191	240 138	0.77%	2.41%	4.40%	-0.66% -2.81%	0.98%	3.09%	0.32%	0.54%	0.42%	-0.38% -2.87%	1.24%	1.94%
341S025 June 29, 2011	Syncrude Standby (848S)	1200	240	3.09%	2.65%	2.29%	4.49%	3.73%	3.17%	4.56%	4.38%	4.16%	5.09%	5.09%	5.18%