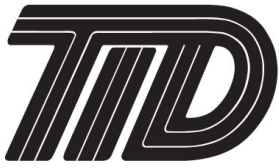


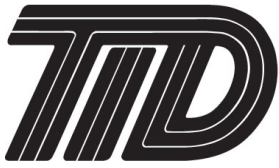
Short Run Marginal Cost Daily Average

Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)
1/16/2018	0.0366	0.0313	12/14/2017	0.0376	0.0317	11/11/2017	-	0.0381
1/15/2018	0.0384	0.0310	12/13/2017	0.0409	0.0338	11/10/2017	0.0395	0.0320
1/14/2018	-	0.0309	12/12/2017	0.0422	0.0342	11/9/2017	0.0420	0.0318
1/13/2018	-	0.0310	12/11/2017	0.0395	0.0331	11/8/2017	0.0691	0.0418
1/12/2018	0.0354	0.0301	12/10/2017	-	0.0301	11/7/2017	0.0602	0.0415
1/11/2018	0.0321	0.0273	12/9/2017	-	0.0311	11/6/2017	0.0452	0.0347
1/10/2018	0.0321	0.0263	12/8/2017	0.0364	0.0319	11/5/2017	-	0.0316
1/9/2018	0.0344	0.0304	12/7/2017	0.0410	0.0336	11/4/2017	-	0.0326
1/8/2018	0.0365	0.0316	12/6/2017	0.0395	0.0339	11/3/2017	0.0384	0.0349
1/7/2018	-	0.0291	12/5/2017	0.0367	0.0314	11/2/2017	0.0360	0.0327
1/6/2018	-	0.0299	12/4/2017	0.0368	0.0320	11/1/2017	0.0378	0.0340
1/5/2018	0.0371	0.0320	12/3/2017	-	0.0289	10/31/2017	0.0397	0.0339
1/4/2018	0.0430	0.0371	12/2/2017	-	0.0309	10/30/2017	0.0346	0.0307
1/3/2018	0.0454	0.0372	12/1/2017	0.0365	0.0317	10/29/2017	-	0.0308
1/2/2018	0.0424	0.0360	11/30/2017	0.0404	0.0328	10/28/2017	-	0.0341
1/1/2018	-	0.0337	11/29/2017	0.0389	0.0313	10/27/2017	0.0505	0.0357
12/31/2017	-	0.0338	11/28/2017	0.0390	0.0326	10/26/2017	0.0640	0.0365
12/30/2017	-	0.0295	11/27/2017	0.0365	0.0286	10/25/2017	0.1234	0.0414
12/29/2017	0.0346	0.0303	11/26/2017	-	0.0282	10/24/2017	0.1678	0.0449
12/28/2017	0.0337	0.0297	11/25/2017	-	0.0292	10/23/2017	0.1034	0.0353
12/27/2017	0.0333	0.0302	11/24/2017	0.0323	0.0260	10/22/2017	-	0.0336
12/26/2017	0.0383	0.0330	11/23/2017	-	0.0299	10/21/2017	-	0.0319
12/25/2017	-	0.0313	11/22/2017	0.0353	0.0294	10/20/2017	0.0321	0.0296
12/24/2017	-	0.0335	11/21/2017	0.0365	0.0307	10/19/2017	0.0366	0.0306
12/23/2017	-	0.0334	11/20/2017	0.0375	0.0315	10/18/2017	0.0506	0.0352
12/22/2017	0.0378	0.0351	11/19/2017	-	0.0309	10/17/2017	0.0653	0.0359
12/21/2017	0.0388	0.0356	11/18/2017	-	0.0318	10/16/2017	0.0608	0.0341
12/20/2017	0.0370	0.0321	11/17/2017	0.0353	0.0302	10/15/2017	-	0.0373
12/19/2017	0.0360	0.0321	11/16/2017	0.0418	0.0314	10/14/2017	-	0.0332
12/18/2017	0.0376	0.0321	11/15/2017	0.0397	0.0305	10/13/2017	0.0345	0.0307
12/17/2017	-	0.0291	11/14/2017	0.0404	0.0314	10/12/2017	0.0355	0.0313
12/16/2017	-	0.0291	11/13/2017	0.0358	0.0284	10/11/2017	0.0363	0.0304
12/15/2017	0.0348	0.0314	11/12/2017	-	0.0351	10/10/2017	0.0427	0.0323



Short Run Marginal Cost Daily Average

Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)
10/9/2017	0.0401	0.0306	9/6/2017	0.0487	0.0330	8/4/2017	0.0484	0.0324
10/8/2017	-	0.0266	9/5/2017	0.0633	0.0363	8/3/2017	0.0873	0.0364
10/7/2017	-	0.0318	9/4/2017	-	0.0436	8/2/2017	0.1674	0.0382
10/6/2017	0.0402	0.0300	9/3/2017	-	0.0473	8/1/2017	0.1732	0.0365
10/5/2017	0.0377	0.0301	9/2/2017	-	0.0644	7/31/2017	0.0588	0.0317
10/4/2017	0.0375	0.0305	9/1/2017	0.1781	0.0385	7/30/2017	-	0.0321
10/3/2017	0.0352	0.0299	8/31/2017	0.1314	0.0379	7/29/2017	-	0.0331
10/2/2017	0.0346	0.0283	8/30/2017	0.0784	0.0368	7/28/2017	0.0455	0.0303
10/1/2017	-	0.0262	8/29/2017	0.1520	0.0369	7/27/2017	0.0488	0.0299
9/30/2017	-	0.0279	8/28/2017	0.2178	0.0404	7/26/2017	0.0443	0.0301
9/29/2017	0.0370	0.0288	8/27/2017	-	0.0429	7/25/2017	0.0448	0.0336
9/28/2017	0.0451	0.0298	8/26/2017	-	0.0375	7/24/2017	0.0478	0.0333
9/27/2017	0.0440	0.0305	8/25/2017	0.0463	0.0325	7/23/2017	-	0.0343
9/26/2017	0.0443	0.0308	8/24/2017	0.0382	0.0302	7/22/2017	-	0.0338
9/25/2017	0.0395	0.0283	8/23/2017	0.0416	0.0302	7/21/2017	0.0423	0.0292
9/24/2017	-	0.0264	8/22/2017	0.0441	0.0327	7/20/2017	0.0427	0.0284
9/23/2017	-	0.0261	8/21/2017	0.0418	0.0331	7/19/2017	0.0395	0.0279
9/22/2017	0.0315	0.0299	8/20/2017	-	0.0309	7/18/2017	0.0400	0.0296
9/21/2017	0.0305	0.0292	8/19/2017	-	0.0310	7/17/2017	0.0457	0.0286
9/20/2017	0.0325	0.0286	8/18/2017	0.0385	0.0280	7/16/2017	-	0.0248
9/19/2017	0.0323	0.0286	8/17/2017	0.0371	0.0281	7/15/2017	-	0.0328
9/18/2017	0.0352	0.0281	8/16/2017	0.0358	0.0274	7/14/2017	0.0338	0.0280
9/17/2017	-	0.0280	8/15/2017	0.0333	0.0289	7/13/2017	0.0344	0.0269
9/16/2017	-	0.0310	8/14/2017	0.0341	0.0261	7/12/2017	0.0248	0.0265
9/15/2017	0.0330	0.0276	8/13/2017	-	0.0285	7/11/2017	0.0361	0.0286
9/14/2017	0.0349	0.0298	8/12/2017	-	0.0309	7/10/2017	0.0198	0.0272
9/13/2017	0.0425	0.0306	8/11/2017	0.0471	0.0308	7/9/2017	-	0.0282
9/12/2017	0.0515	0.0325	8/10/2017	0.0481	0.0305	7/8/2017	-	0.0369
9/11/2017	0.0584	0.0322	8/9/2017	0.0487	0.0313	7/7/2017	0.0697	0.0311
9/10/2017	-	0.0359	8/8/2017	0.0467	0.0310	7/6/2017	0.0487	0.0297
9/9/2017	-	0.0324	8/7/2017	0.0481	0.0315	7/5/2017	0.0444	0.0290
9/8/2017	0.0405	0.0309	8/6/2017	-	0.0313	7/4/2017	-	0.0271
9/7/2017	0.0443	0.0329	8/5/2017	-	0.0339	7/3/2017	0.0190	0.0241



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7/2/2017	-	0.0213	5/30/2017	0.0365	0.0237	4/27/2017	0.0276	0.0252
7/1/2017	-	0.0235	5/29/2017	-	0.0232	4/26/2017	0.0246	0.0224
6/30/2017	0.0352	0.0244	5/28/2017	-	0.0189	4/25/2017	0.0289	0.0270
6/29/2017	0.0341	0.0245	5/27/2017	-	0.0190	4/24/2017	0.0284	0.0216
6/28/2017	0.0310	0.0225	5/26/2017	0.0265	0.0229	4/23/2017	-	0.0163
6/27/2017	0.0365	0.0256	5/25/2017	0.0295	0.0238	4/22/2017	-	0.0254
6/26/2017	0.0420	0.0269	5/24/2017	0.0344	0.0249	4/21/2017	0.0418	0.0276
6/25/2017	-	0.0296	5/23/2017	0.0265	0.0254	4/20/2017	0.0274	0.0239
6/24/2017	-	0.0333	5/22/2017	0.0284	0.0228	4/19/2017	0.0262	0.0267
6/23/2017	0.0495	0.0296	5/21/2017	-	0.0072	4/18/2017	0.0299	0.0291
6/22/2017	0.0047	0.0267	5/20/2017	-	0.0173	4/17/2017	0.0331	0.0314
6/21/2017	0.2171	0.0345	5/19/2017	0.0215	0.0187	4/16/2017	-	0.0202
6/20/2017	0.0829	0.0327	5/18/2017	0.0271	0.0263	4/15/2017	-	0.0228
6/19/2017	0.0711	0.0319	5/17/2017	0.0220	0.0244	4/14/2017	0.0193	0.0181
6/18/2017	-	0.0200	5/16/2017	0.0230	0.0245	4/13/2017	0.0181	0.0249
6/17/2017	-	0.0317	5/15/2017	0.0196	0.0204	4/12/2017	0.0283	0.0295
6/16/2017	0.0455	0.0261	5/14/2017	-	0.0103	4/11/2017	0.0274	0.0324
6/15/2017	0.0366	0.0235	5/13/2017	-	0.0168	4/10/2017	0.0279	0.0280
6/14/2017	0.0325	0.0225	5/12/2017	0.0206	0.0256	4/9/2017	-	0.0177
6/13/2017	0.0271	0.0222	5/11/2017	0.0319	0.0298	4/8/2017	-	0.0191
6/12/2017	0.0158	0.0165	5/10/2017	0.0311	0.0286	4/7/2017	0.0313	0.0305
6/11/2017	-	0.0051	5/9/2017	0.0373	0.0280	4/6/2017	0.0314	0.0283
6/10/2017	-	0.0132	5/8/2017	0.0360	0.0286	4/5/2017	0.0302	0.0269
6/9/2017	0.0233	0.0230	5/7/2017	-	0.0237	4/4/2017	0.0250	0.0235
6/8/2017	0.0289	0.0264	5/6/2017	-	0.0227	4/3/2017	0.0178	0.0164
6/7/2017	0.0355	0.0256	5/5/2017	0.0376	0.0289	4/2/2017	-	0.0118
6/6/2017	0.0359	0.0258	5/4/2017	0.0606	0.0337	4/1/2017	-	0.0199
6/5/2017	0.0367	0.0219	5/3/2017	0.0631	0.0320	3/31/2017	0.0162	0.0156
6/4/2017	-	0.0215	5/2/2017	0.0524	0.0322	3/30/2017	0.0156	0.0154
6/3/2017	-	0.0249	5/1/2017	0.0391	0.0284	3/29/2017	0.0204	0.0212
6/2/2017	0.0357	0.0234	4/30/2017	-	0.0215	3/28/2017	0.0185	0.0205
6/1/2017	0.0280	0.0227	4/29/2017	-	0.0230	3/27/2017	0.0158	0.0172
5/31/2017	0.0319	0.0236	4/28/2017	0.0239	0.0266	3/26/2017	-	0.0116

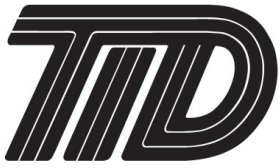


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Short Run Marginal Cost Daily Average

Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)
3/25/2017	-	0.0116	2/20/2017	-	0.0273	1/18/2017	0.0373	0.0328
3/24/2017	0.0183	0.0220	2/19/2017	-	0.0184	1/17/2017	0.0382	0.0337
3/23/2017	0.0174	0.0180	2/18/2017	-	0.0277	1/16/2017	0.0378	0.0332
3/22/2017	0.0294	0.0242	2/17/2017	0.0357	0.0281	1/15/2017	-	0.0337
3/21/2017	0.0294	0.0263	2/16/2017	0.0295	0.0245	1/14/2017	-	0.0344
3/20/2017	0.0268	0.0231	2/15/2017	0.0311	0.0261	1/13/2017	0.0401	0.0356
3/19/2017	-	0.0219	2/14/2017	0.0339	0.0285	1/12/2017	0.0430	0.0355
3/18/2017	-	0.0250	2/13/2017	0.0386	0.0317	1/11/2017	0.0387	0.0311
3/17/2017	0.0356	0.0272	2/12/2017	-	0.0304	1/10/2017	0.0392	0.0304
3/16/2017	0.0311	0.0248	2/11/2017	-	0.0275	1/9/2017	0.0409	0.0336
3/15/2017	0.0340	0.0269	2/10/2017	0.0370	0.0287	1/8/2017	-	0.0328
3/14/2017	0.0377	0.0293	2/9/2017	0.0381	0.0303	1/7/2017	-	0.0356
3/13/2017	0.0400	0.0281	2/8/2017	0.0386	0.0307	1/6/2017	0.0389	0.0327
3/12/2017	-	0.0170	2/7/2017	0.0365	0.0278	1/5/2017	0.0423	0.0352
3/11/2017	-	0.0213	2/6/2017	0.0362	0.0285	1/4/2017	0.0420	0.0356
3/10/2017	0.0277	0.0194	2/5/2017	-	0.0286	1/3/2017	0.0492	0.0388
3/9/2017	0.0312	0.0223	2/4/2017	-	0.0274	1/2/2017	0.0424	0.0340
3/8/2017	0.0306	0.0235	2/3/2017	0.0352	0.0310	1/1/2017	-	0.0316
3/7/2017	0.0285	0.0267	2/2/2017	0.0403	0.0321	12/31/2016	-	0.0359
3/6/2017	0.0251	0.0207	2/1/2017	0.0364	0.0318	12/30/2016	0.0397	0.0342
3/5/2017	-	0.0191	1/31/2017	0.0369	0.0338	12/29/2016	0.0386	0.0334
3/4/2017	-	0.0195	1/30/2017	0.0362	0.0329	12/28/2016	0.0402	0.0345
3/3/2017	0.0234	0.0199	1/29/2017	-	0.0306	12/27/2016	0.0407	0.0357
3/2/2017	0.0235	0.0228	1/28/2017	-	0.0322	12/26/2016	0.0380	0.0337
3/1/2017	0.0260	0.0255	1/27/2017	0.0361	0.0340	12/25/2016	-	0.0326
2/28/2017	0.0254	0.0223	1/26/2017	0.0393	0.0351	12/24/2016	-	0.0331
2/27/2017	0.0317	0.0265	1/25/2017	0.0399	0.0364	12/23/2016	0.0399	0.0338
2/26/2017	-	0.0195	1/24/2017	0.0396	0.0328	12/22/2016	0.0420	0.0344
2/25/2017	-	0.0215	1/23/2017	0.0401	0.0333	12/21/2016	0.0429	0.0352
2/24/2017	0.0275	0.0265	1/22/2017	-	0.0337	12/20/2016	0.0387	0.0347
2/23/2017	0.0252	0.0253	1/21/2017	-	0.0312	12/19/2016	0.0392	0.0352
2/22/2017	0.0262	0.0218	1/20/2017	0.0363	0.0323	12/18/2016	-	0.0350
2/21/2017	0.0306	0.0241	1/19/2017	0.0364	0.0307	12/17/2016	-	0.0375



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Short Run Marginal Cost Daily Average

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12/16/2016	0.0398	0.0330						