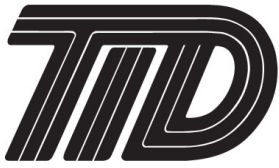


Short Run Marginal Cost Daily Average

Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)
9/18/2019	0.0310	0.0283	8/16/2019	0.0398	0.0262	7/14/2019	-	0.0301
9/17/2019	0.0335	0.0288	8/15/2019	0.0568	0.0283	7/13/2019	-	0.0316
9/16/2019	0.0342	0.0309	8/14/2019	0.0551	0.0285	7/12/2019	0.0448	0.0293
9/15/2019	-	0.0324	8/13/2019	0.0404	0.0274	7/11/2019	0.0399	0.0287
9/14/2019	-	0.0338	8/12/2019	0.0350	0.0255	7/10/2019	0.0339	0.0253
9/13/2019	0.0541	0.0318	8/11/2019	-	0.0233	7/9/2019	0.0317	0.0233
9/12/2019	0.0467	0.0307	8/10/2019	-	0.0232	7/8/2019	0.0226	0.0199
9/11/2019	0.0387	0.0298	8/9/2019	0.0319	0.0256	7/7/2019	-	0.0155
9/10/2019	0.0325	0.0292	8/8/2019	0.0331	0.0261	7/6/2019	-	0.0202
9/9/2019	0.0344	0.0287	8/7/2019	0.0377	0.0285	7/5/2019	0.0276	0.0211
9/8/2019	-	0.0251	8/6/2019	0.0469	0.0289	7/4/2019	-	0.0171
9/7/2019	-	0.0304	8/5/2019	0.0510	0.0308	7/3/2019	0.0251	0.0205
9/6/2019	0.0431	0.0325	8/4/2019	-	0.0317	7/2/2019	0.0283	0.0212
9/5/2019	0.0593	0.0379	8/3/2019	-	0.0309	7/1/2019	0.0320	0.0235
9/4/2019	0.0545	0.0367	8/2/2019	0.0397	0.0277	6/30/2019	-	0.0217
9/3/2019	0.0488	0.0324	8/1/2019	0.0347	0.0273	6/29/2019	-	0.0234
9/2/2019	-	0.0339	7/31/2019	0.0395	0.0287	6/28/2019	0.0260	0.0209
9/1/2019	-	0.0318	7/30/2019	0.0414	0.0282	6/27/2019	0.0221	0.0203
8/31/2019	-	0.0304	7/29/2019	0.0385	0.0279	6/26/2019	0.0227	0.0209
8/30/2019	0.0385	0.0272	7/28/2019	-	0.0329	6/25/2019	0.0283	0.0241
8/29/2019	0.0404	0.0294	7/27/2019	-	0.0332	6/24/2019	0.0274	0.0200
8/28/2019	0.0474	0.0310	7/26/2019	0.0466	0.0308	6/23/2019	-	0.0181
8/27/2019	0.0547	0.0301	7/25/2019	0.0564	0.0328	6/22/2019	-	0.0178
8/26/2019	0.0462	0.0275	7/24/2019	0.0640	0.0324	6/21/2019	0.0207	0.0224
8/25/2019	-	0.0262	7/23/2019	0.0627	0.0338	6/20/2019	0.0222	0.0191
8/24/2019	-	0.0276	7/22/2019	0.0473	0.0291	6/19/2019	0.0295	0.0230
8/23/2019	0.0349	0.0259	7/21/2019	-	0.0287	6/18/2019	0.0329	0.0246
8/22/2019	0.0371	0.0253	7/20/2019	-	0.0257	6/17/2019	0.0329	0.0252
8/21/2019	0.0377	0.0259	7/19/2019	0.0329	0.0269	6/16/2019	-	0.0176
8/20/2019	0.0372	0.0270	7/18/2019	0.0326	0.0258	6/15/2019	-	0.0181
8/19/2019	0.0354	0.0265	7/17/2019	0.0359	0.0251	6/14/2019	0.0278	0.0215
8/18/2019	-	0.0263	7/16/2019	0.0386	0.0273	6/13/2019	0.0352	0.0267
8/17/2019	-	0.0274	7/15/2019	0.0416	0.0284	6/12/2019	0.0640	0.0327

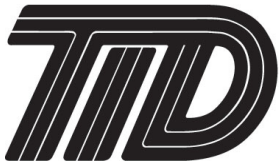


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Short Run Marginal Cost Daily Average

Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)	Date	On-Peak (\$/KWH)	Off-Peak (\$/KWH)
6/11/2019	0.0532	0.0313	5/9/2019	0.0278	0.0242	4/6/2019	-	0.0197
6/10/2019	0.0430	0.0235	5/8/2019	0.0262	0.0237	4/5/2019	0.0300	0.0281
6/9/2019	-	0.0185	5/7/2019	0.0212	0.0244	4/4/2019	0.0348	0.0332
6/8/2019	-	0.0146	5/6/2019	0.0258	0.0242	4/3/2019	0.0301	0.0309
6/7/2019	0.0189	0.0165	5/5/2019	-	0.0139	4/2/2019	0.0263	0.0307
6/6/2019	0.0238	0.0192	5/4/2019	-	0.0158	4/1/2019	0.0392	0.0348
6/5/2019	0.0331	0.0180	5/3/2019	0.0265	0.0230	3/31/2019	-	0.0198
6/4/2019	0.0327	0.0181	5/2/2019	0.0270	0.0218	3/30/2019	-	0.0220
6/3/2019	0.0268	0.0154	5/1/2019	0.0270	0.0247	3/29/2019	0.0160	0.0227
6/2/2019	-	0.0123	4/30/2019	0.0176	0.0218	3/28/2019	0.0192	0.0267
6/1/2019	-	0.0157	4/29/2019	0.0221	0.0203	3/27/2019	0.0255	0.0316
5/31/2019	0.0239	0.0173	4/28/2019	-	0.0139	3/26/2019	0.0306	0.0323
5/30/2019	0.0244	0.0160	4/27/2019	-	0.0115	3/25/2019	0.0290	0.0309
5/29/2019	0.0216	0.0160	4/26/2019	0.0201	0.0183	3/24/2019	-	0.0245
5/28/2019	0.0095	0.0103	4/25/2019	0.0278	0.0219	3/23/2019	-	0.0199
5/27/2019	-	0.0036	4/24/2019	0.0304	0.0204	3/22/2019	0.0259	0.0302
5/26/2019	-	0.0087	4/23/2019	0.0263	0.0177	3/21/2019	0.0235	0.0301
5/25/2019	-	0.0102	4/22/2019	0.0193	0.0157	3/20/2019	0.0356	0.0346
5/24/2019	0.0194	0.0203	4/21/2019	-	0.0074	3/19/2019	0.0359	0.0353
5/23/2019	0.0245	0.0211	4/20/2019	-	0.0140	3/18/2019	0.0367	0.0368
5/22/2019	0.0141	0.0172	4/19/2019	0.0312	0.0239	3/17/2019	-	0.0280
5/21/2019	0.0138	0.0138	4/18/2019	0.0341	0.0251	3/16/2019	-	0.0292
5/20/2019	0.0118	0.0113	4/17/2019	0.0247	0.0208	3/15/2019	0.0296	0.0388
5/19/2019	-	0.0070	4/16/2019	0.0187	0.0248	3/14/2019	0.0360	0.0423
5/18/2019	-	0.0109	4/15/2019	0.0227	0.0223	3/13/2019	0.0307	0.0387
5/17/2019	0.0126	0.0174	4/14/2019	-	0.0163	3/12/2019	0.0294	0.0422
5/16/2019	0.0210	0.0267	4/13/2019	-	0.0212	3/11/2019	0.0506	0.0489
5/15/2019	0.0295	0.0273	4/12/2019	0.0195	0.0251	3/10/2019	-	0.0412
5/14/2019	0.0279	0.0186	4/11/2019	0.0229	0.0244	3/9/2019	-	0.0349
5/13/2019	0.0238	0.0198	4/10/2019	0.0178	0.0207	3/8/2019	0.0403	0.0368
5/12/2019	-	0.0137	4/9/2019	0.0172	0.0220	3/7/2019	0.0451	0.0382
5/11/2019	-	0.0229	4/8/2019	0.0360	0.0302	3/6/2019	0.0517	0.0424
5/10/2019	0.0346	0.0293	4/7/2019	-	0.0201	3/5/2019	0.0700	0.0604



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)
3/4/2019	0.0816	0.0697	1/30/2019	0.0426	0.0374	12/28/2018	0.0444	0.0405
3/3/2019	-	0.0594	1/29/2019	0.0424	0.0387	12/27/2018	0.0401	0.0391
3/2/2019	-	0.0623	1/28/2019	0.0436	0.0364	12/26/2018	0.0407	0.0396
3/1/2019	0.0559	0.0508	1/27/2019	-	0.0321	12/25/2018	-	0.0357
2/28/2019	0.0515	0.0437	1/26/2019	-	0.0346	12/24/2018	0.0404	0.0377
2/27/2019	0.0583	0.0491	1/25/2019	0.0407	0.0363	12/23/2018	-	0.0386
2/26/2019	0.0591	0.0501	1/24/2019	0.0408	0.0363	12/22/2018	-	0.0406
2/25/2019	0.0608	0.0528	1/23/2019	0.0409	0.0388	12/21/2018	0.0454	0.0418
2/24/2019	-	0.0450	1/22/2019	0.0450	0.0387	12/20/2018	0.0514	0.0418
2/23/2019	-	0.0449	1/21/2019	0.0416	0.0348	12/19/2018	0.0513	0.0419
2/22/2019	0.0596	0.0635	1/20/2019	-	0.0364	12/18/2018	0.0463	0.0404
2/21/2019	0.0860	0.0784	1/19/2019	-	0.0358	12/17/2018	0.0512	0.0432
2/20/2019	0.1057	0.0891	1/18/2019	0.0486	0.0406	12/16/2018	-	0.0435
2/19/2019	0.1125	0.1081	1/17/2019	0.0539	0.0467	12/15/2018	-	0.0442
2/18/2019	-	0.0950	1/16/2019	0.0535	0.0453	12/14/2018	0.0584	0.0475
2/17/2019	-	0.0720	1/15/2019	0.0509	0.0423	12/13/2018	0.0550	0.0469
2/16/2019	-	0.0679	1/14/2019	0.0460	0.0360	12/12/2018	0.0627	0.0482
2/15/2019	0.0794	0.0692	1/13/2019	-	0.0355	12/11/2018	0.0691	0.0556
2/14/2019	0.0911	0.0818	1/12/2019	-	0.0367	12/10/2018	0.0711	0.0553
2/13/2019	0.0728	0.0627	1/11/2019	0.0419	0.0361	12/9/2018	-	0.0565
2/12/2019	0.0791	0.0717	1/10/2019	0.0448	0.0360	12/8/2018	-	0.0582
2/11/2019	0.1653	0.1562	1/9/2019	0.0474	0.0384	12/7/2018	0.0824	0.0678
2/10/2019	-	0.1272	1/8/2019	0.0509	0.0415	12/6/2018	0.0838	0.0665
2/9/2019	-	0.1161	1/7/2019	0.0515	0.0404	12/5/2018	0.0918	0.0726
2/8/2019	0.1480	0.1546	1/6/2019	-	0.0350	12/4/2018	0.1032	0.0801
2/7/2019	0.1250	0.1159	1/5/2019	-	0.0401	12/3/2018	0.1227	0.0945
2/6/2019	0.0831	0.0795	1/4/2019	0.0472	0.0411	12/2/2018	-	0.0756
2/5/2019	0.0617	0.0567	1/3/2019	0.0493	0.0423	12/1/2018	-	0.0661
2/4/2019	0.0469	0.0399	1/2/2019	0.0510	0.0445	11/30/2018	0.0643	0.0581
2/3/2019	-	0.0330	1/1/2019	-	0.0390	11/29/2018	0.0684	0.0604
2/2/2019	-	0.0366	12/31/2018	0.0430	0.0390	11/28/2018	0.0646	0.0517
2/1/2019	0.0430	0.0382	12/30/2018	-	0.0350	11/27/2018	0.0637	0.0585
1/31/2019	0.0457	0.0404	12/29/2018	-	0.0391	11/26/2018	0.0725	0.0623



WATER & POWER

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11/25/2018	-	0.0561	10/23/2018	0.0529	0.0426	9/20/2018	0.0431	0.0312
11/24/2018	-	0.0506	10/22/2018	0.0527	0.0418	9/19/2018	0.0378	0.0287
11/23/2018	0.0584	0.0483	10/21/2018	-	0.0439	9/18/2018	0.0344	0.0311
11/22/2018	-	0.0515	10/20/2018	-	0.0426	9/17/2018	0.0350	0.0298
11/21/2018	0.0754	0.0617	10/19/2018	0.0551	0.0445	9/16/2018	-	0.0302
11/20/2018	0.0776	0.0637	10/18/2018	0.0529	0.0429	9/15/2018	-	0.0284
11/19/2018	0.0771	0.0605	10/17/2018	0.0526	0.0434	9/14/2018	0.0335	0.0314
11/18/2018	-	0.0540	10/16/2018	0.0528	0.0432	9/13/2018	0.0343	0.0304
11/17/2018	-	0.0542	10/15/2018	0.0473	0.0368	9/12/2018	0.0324	0.0290
11/16/2018	0.0684	0.0556	10/14/2018	-	0.0347	9/11/2018	0.0366	0.0294
11/15/2018	0.0689	0.0524	10/13/2018	-	0.0353	9/10/2018	0.0377	0.0281
11/14/2018	0.0611	0.0510	10/12/2018	0.0480	0.0375	9/9/2018	-	0.0325
11/13/2018	0.0655	0.0516	10/11/2018	0.0526	0.0432	9/8/2018	-	0.0323
11/12/2018	0.0570	0.0437	10/10/2018	0.0410	0.0361	9/7/2018	0.0469	0.0298
11/11/2018	-	0.0392	10/9/2018	0.0438	0.0370	9/6/2018	0.0441	0.0291
11/10/2018	-	0.0418	10/8/2018	0.0443	0.0333	9/5/2018	0.0444	0.0335
11/9/2018	0.0558	0.0427	10/7/2018	-	0.0335	9/4/2018	0.0458	0.0321
11/8/2018	0.0483	0.0370	10/6/2018	-	0.0338	9/3/2018	-	0.0326
11/7/2018	0.0447	0.0362	10/5/2018	0.0414	0.0345	9/2/2018	-	0.0314
11/6/2018	0.0467	0.0321	10/4/2018	0.0437	0.0370	9/1/2018	-	0.0309
11/5/2018	0.0425	0.0290	10/3/2018	0.0487	0.0404	8/31/2018	0.0366	0.0291
11/4/2018	-	0.0314	10/2/2018	0.0454	0.0374	8/30/2018	0.0352	0.0301
11/3/2018	-	0.0359	10/1/2018	0.0481	0.0363	8/29/2018	0.0348	0.0310
11/2/2018	0.0464	0.0354	9/30/2018	-	0.0310	8/28/2018	0.0381	0.0313
11/1/2018	0.0500	0.0388	9/29/2018	-	0.0299	8/27/2018	0.0381	0.0304
10/31/2018	0.0528	0.0445	9/28/2018	0.0368	0.0299	8/26/2018	-	0.0305
10/30/2018	0.0521	0.0409	9/27/2018	0.0446	0.0307	8/25/2018	-	0.0341
10/29/2018	0.0541	0.0422	9/26/2018	0.0463	0.0323	8/24/2018	0.0383	0.0311
10/28/2018	-	0.0395	9/25/2018	0.0419	0.0293	8/23/2018	0.0365	0.0301
10/27/2018	-	0.0448	9/24/2018	0.0387	0.0288	8/22/2018	0.0450	0.0353
10/26/2018	0.0564	0.0426	9/23/2018	-	0.0286	8/21/2018	0.0528	0.0374
10/25/2018	0.0553	0.0417	9/22/2018	-	0.0298	8/20/2018	0.0619	0.0389
10/24/2018	0.0553	0.0423	9/21/2018	0.0396	0.0288	8/19/2018	-	0.0443



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8/18/2018	-	0.0425						