

# Day Ahead Market Generator LBMP

Generator Data		--- LBMP \$										--- Marginal Cost of Losses										--- Marginal Cost of Congestion										05/23/2023		
Name	PTID	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00									
59TH STREET_GT_1	24138	20.98	19.71	18.11	16.50	17.30	20.02	25.91	28.41	25.41	22.47	23.15	22.94	22.84	24.05	24.61	25.29	28.60	33.27	36.43	36.92	36.15	32.95	25.22	23.63									
		0.50	0.49	0.49	0.49	0.49	0.54	0.65	0.84	1.16	1.23	1.48	1.60	1.63	1.84	1.80	1.91	2.08	2.26	2.19	2.28	2.06	2.04	1.59	0.84									
		-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.69	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15									
74TH STREET_GT_1	24260	20.98	19.71	18.11	16.50	17.30	20.02	25.91	28.39	25.39	22.45	23.13	22.92	22.82	24.03	24.59	25.29	28.58	33.22	36.40	36.93	36.12	32.95	25.22	23.63									
		0.50	0.49	0.49	0.49	0.49	0.54	0.64	0.83	1.15	1.21	1.47	1.58	1.61	1.82	1.78	1.91	2.06	2.20	2.16	2.28	2.03	2.04	1.59	0.84									
		-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15									
74TH STREET_GT_2	24261	20.98	19.71	18.11	16.50	17.30	20.02	25.91	28.39	25.39	22.45	23.13	22.92	22.82	24.03	24.59	25.29	28.58	33.22	36.40	36.93	36.12	32.95	25.22	23.63									
		0.50	0.49	0.49	0.49	0.49	0.54	0.64	0.83	1.15	1.21	1.47	1.58	1.61	1.82	1.78	1.91	2.06	2.20	2.16	2.28	2.03	2.04	1.59	0.84									
		-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15									
ADK HUDSON___FALLS	24011	24.83	23.19	21.11	19.03	20.07	23.35	30.58	32.92	28.01	23.92	23.64	23.10	22.60	23.70	24.56	24.86	27.83	33.20	37.55	44.91	49.26	33.52	25.34	26.49									
		0.50	0.45	0.48	0.46	0.48	0.56	0.68	0.82	1.06	0.98	1.15	1.21	1.14	1.34	1.35	1.44	1.27	1.38	1.41	1.61	1.48	1.35	1.18	0.48									
		-17.11	-15.66	-13.43	-11.37	-12.38	-14.74	-20.65	-20.24	-12.08	-7.59	-3.69	-2.43	-1.10	-0.68	-1.75	-0.16	-0.21	-3.60	-8.46	-12.88	-20.37	-5.62	-2.36	-14.38									
ADK RESOURCE___RCVRY	23798	24.88	23.23	21.15	19.07	20.12	23.41	30.65	33.01	28.12	24.00	23.72	23.22	22.68	23.83	24.69	25.00	27.96	33.38	37.70	45.17	49.56	33.63	25.40	26.53									
		0.54	0.48	0.50	0.49	0.52	0.61	0.73	0.89	1.16	1.06	1.22	1.32	1.22	1.47	1.48	1.58	1.40	1.55	1.55	1.79	1.64	1.46	1.24	0.50									
		-17.13	-15.68	-13.44	-11.38	-12.39	-14.76	-20.67	-20.25	-12.09	-7.59	-3.69	-2.43	-1.11	-0.68	-1.75	-0.16	-0.21	-3.60	-8.47	-12.97	-20.50	-5.63	-2.36	-14.39									
ADK S GLENS___FALLS	24028	24.83	23.19	21.11	19.03	20.07	23.35	30.58	32.92	28.01	23.92	23.64	23.10	22.60	23.70	24.56	24.86	27.83	33.20	37.55	44.91	49.26	33.52	25.34	26.49									
		0.50	0.45	0.48	0.46	0.48	0.56	0.68	0.82	1.06	0.98	1.15	1.21	1.14	1.34	1.35	1.44	1.27	1.38	1.41	1.61	1.48	1.35	1.18	0.48									
		-17.11	-15.66	-13.43	-11.37	-12.38	-14.74	-20.65	-20.24	-12.08	-7.59	-3.69	-2.43	-1.10	-0.68	-1.75	-0.16	-0.21	-3.60	-8.46	-12.88	-20.37	-5.62	-2.36	-14.38									
ADK_NYS___DAM	23527	23.95	22.41	20.41	18.44	19.42	22.57	29.50	31.82	27.12	23.29	23.07	22.53	22.21	23.28	24.06	24.41	27.74	32.95	37.04	41.98	44.70	33.34	25.28	26.02									
		0.32	0.31	0.32	0.33	0.34	0.38	0.43	0.53	0.65	0.66	0.73	0.74	0.79	0.95	0.92	1.00	1.19	1.27	1.25	1.46	1.32	1.41	1.22	0.59									
		-16.42	-15.03	-12.89	-10.91	-11.88	-14.15	-19.81	-19.42	-11.60	-7.28	-3.54	-2.33	-1.06	-0.65	-1.68	-0.15	-0.20	-3.45	-8.11	-10.10	-15.98	-5.39	-2.26	-13.79									
AIR_PRODUCTS___DRP	24190	23.95	22.41	20.41	18.42	19.40	22.55	29.47	31.77	27.09	23.23	23.06	22.54	22.19	23.24	24.06	24.44	27.74	32.92	37.03	40.03	41.69	33.22	25.18	25.99									
		0.30	0.28	0.30	0.30	0.30	0.33	0.37	0.45	0.59	0.58	0.71	0.74	0.77	0.91	0.92	1.02	1.19	1.24	1.22	1.37	1.23	1.27	1.11	0.54									
		-16.45	-15.06	-12.91	-10.93	-11.90	-14.17	-19.85	-19.45	-11.62	-7.29	-3.55	-2.34	-1.06	-0.65	-1.68	-0.15	-0.20	-3.46	-8.13	-8.25	-13.05	-5.40	-2.27	-13.81									
AKWESSNE_115KV_BK	355683	7.04	6.93	7.05	7.04	7.04	7.85	9.05	11.68	14.59	15.09	18.44	19.05	19.91	21.09	20.83	22.59	25.62	27.49	27.02	29.65	26.72	25.80	21.10	11.26									
		-0.17	-0.14	-0.15	-0.16	-0.17	-0.19	-0.20	-0.19	-0.28	-0.26	-0.36	-0.41	-0.45	-0.59	-0.62	-0.67	-0.74	-0.73	-0.66	-0.76	-0.69	-0.74	-0.70	-0.38									
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
ALBANY___1	23571	23.95	22.41	20.41	18.42	19.40	22.55	29.47	31.77	27.09	23.23	23.06	22.54	22.19	23.24	24.06	24.44	27.74	32.92	37.03	40.03	41.69	33.22	25.18	25.99									
		0.30	0.28	0.30	0.30	0.30	0.33	0.37	0.45	0.59	0.58	0.71	0.74	0.77	0.91	0.92	1.02	1.19	1.24	1.22	1.37	1.23	1.27	1.11	0.54									
		-16.45	-15.06	-12.91	-10.93	-11.90	-14.17	-19.85	-19.45	-11.62	-7.29	-3.55	-2.34	-1.06	-0.65	-1.68	-0.15	-0.20	-3.46	-8.13	-8.25	-13.05	-5.40	-2.27	-13.81									
ALBANY___2	23572	23.95	22.41	20.41	18.42	19.40	22.55	29.47	31.77	27.09	23.23	23.06	22.54	22.19	23.24	24.06	24.44	27.74	32.92	37.03	40.03	41.69	33.22	25.18	25.99									
		0.30	0.28	0.30	0.30	0.30	0.33	0.37	0.45	0.59	0.58	0.71	0.74	0.77	0.91	0.92	1.02	1.19	1.24	1.22	1.37	1.23	1.27	1.11	0.54									
		-16.45	-15.06	-12.91	-10.93	-11.90	-14.17	-19.85	-19.45	-11.62	-7.29	-3.55	-2.34	-1.06	-0.65	-1.68	-0.15	-0.20	-3.46	-8.13	-8.25	-13.05	-5.40	-2.27	-13.81									
ALBANY___3	23573	23.95	22.41	20.41	18.42	19.40	22.55	29.47	31.77	27.09	23.23	23.06	22.54	22.19	23.24	24.06	24.44	27.74	32.92	37.03	40.03	41.69	33.22	25.18	25.99									
		0.30	0.28	0.30	0.30	0.30	0.33	0.37	0.45	0.59	0.58	0.71	0.74	0.77	0.91	0.92	1.02	1.19	1.24	1.22	1.37	1.23	1.27	1.11	0.54									
		-16.45	-15.06	-12.91	-10.93	-11.90	-14.17	-19.85	-19.45	-11.62	-7.29	-3.55	-2.34	-1.06	-0.65	-1.68	-0.15	-0.20	-3.46	-8.13	-8.25	-13.05	-5.40	-2.27	-13.81									



ALBANY___4 23574	23.95 0.30 -16.45	22.41 0.28 -15.06	20.41 0.30 -12.91	18.42 0.30 -10.93	19.40 0.30 -11.90	22.55 0.33 -14.17	29.47 0.37 -19.85	31.77 0.45 -19.45	27.09 0.59 -11.62	23.23 0.58 -7.29	23.06 0.71 -3.55	22.54 0.74 -2.34	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.44 1.02 -0.15	27.74 1.19 -0.20	32.92 1.24 -3.46	37.03 1.22 -8.13	40.03 1.37 -8.25	41.69 1.23 -13.05	33.22 1.27 -5.40	25.18 1.11 -2.27	25.99 0.54 -13.81
ALBANY___LFGE 323615	24.30 0.35 -16.74	22.72 0.33 -15.32	20.68 0.34 -13.14	18.66 0.34 -11.12	19.66 0.34 -12.11	22.86 0.39 -14.42	29.89 0.43 -20.20	32.19 0.52 -19.80	27.41 0.71 -11.82	23.47 0.69 -7.42	23.24 0.83 -3.61	22.72 0.88 -2.38	22.35 0.92 -1.08	23.43 1.08 -0.66	24.26 1.09 -1.71	24.62 1.21 -0.15	27.98 1.42 -0.21	33.24 1.49 -3.52	37.42 1.47 -8.28	42.08 1.64 -10.03	44.75 1.48 -15.86	33.53 1.49 -5.50	25.35 1.24 -2.31	26.30 0.59 -14.06
ALCOA_PA_115KV_PL-6C 55860	7.08 -0.13 0.00	6.98 -0.09 0.00	7.08 -0.12 0.00	7.09 -0.11 0.00	7.09 -0.12 0.00	7.91 -0.14 0.00	9.12 -0.13 0.00	11.76 -0.11 0.00	14.66 -0.21 0.00	15.18 -0.17 0.00	18.56 -0.24 0.00	19.15 -0.31 0.00	20.03 -0.33 0.00	21.16 -0.52 0.00	20.87 -0.58 0.00	22.61 -0.65 0.00	25.70 -0.66 0.00	27.54 -0.68 0.00	27.13 -0.55 0.00	29.78 -0.64 0.00	26.86 -0.55 0.00	25.94 -0.61 0.00	21.21 -0.59 0.00	11.33 -0.31 0.00
ALCOA_RYNLDS___DRP 24188	7.08 -0.13 0.00	6.98 -0.09 0.00	7.08 -0.12 0.00	7.09 -0.11 0.00	7.09 -0.12 0.00	7.91 -0.14 0.00	9.12 -0.13 0.00	11.76 -0.11 0.00	14.66 -0.21 0.00	15.18 -0.17 0.00	18.56 -0.24 0.00	19.15 -0.31 0.00	20.03 -0.33 0.00	21.16 -0.52 0.00	20.87 -0.58 0.00	22.61 -0.65 0.00	25.70 -0.66 0.00	27.54 -0.68 0.00	27.13 -0.55 0.00	29.78 -0.64 0.00	26.86 -0.55 0.00	25.94 -0.61 0.00	21.21 -0.59 0.00	11.33 -0.31 0.00
ALCOA___DSASP 323711	7.08 -0.13 0.00	6.98 -0.09 0.00	7.08 -0.12 0.00	7.09 -0.11 0.00	7.09 -0.12 0.00	7.91 -0.14 0.00	9.11 -0.14 0.00	11.76 -0.11 0.00	14.66 -0.21 0.00	15.18 -0.17 0.00	18.56 -0.24 0.00	19.15 -0.31 0.00	20.01 -0.35 0.00	21.16 -0.52 0.00	20.88 -0.58 0.00	22.61 -0.65 0.00	25.70 -0.66 0.00	27.54 -0.68 0.00	27.13 -0.55 0.00	29.77 -0.64 0.00	26.86 -0.55 0.00	25.94 -0.61 0.00	21.21 -0.59 0.00	11.33 -0.31 0.00
ALLEGHENY___COGEN 23514	10.32 0.58 -2.53	9.88 0.49 -2.32	9.71 0.53 -1.99	9.43 0.55 -1.68	9.61 0.57 -1.83	10.93 0.70 -2.18	13.05 0.74 -3.05	15.53 0.66 -2.99	17.20 0.53 -1.79	16.81 0.37 -1.09	19.88 0.55 -0.53	20.40 0.58 -0.35	21.16 0.65 -0.16	22.60 0.82 -0.10	22.61 0.90 -0.25	24.50 1.21 -0.02	26.70 0.32 -0.03	29.19 0.45 -0.52	29.48 0.58 -1.21	32.10 0.97 -0.71	29.57 1.04 -1.12	28.42 1.03 -0.84	23.18 1.02 -0.35	14.49 0.71 -2.14
ALTAMONT_115KV_TB 2 55880	23.97 0.27 -16.50	22.42 0.25 -15.10	20.40 0.26 -12.95	18.41 0.26 -10.96	19.41 0.27 -11.93	22.55 0.29 -14.21	29.49 0.33 -19.90	31.78 0.40 -19.51	27.06 0.54 -11.65	23.19 0.52 -7.31	23.00 0.64 -3.56	22.47 0.66 -2.34	22.11 0.69 -1.06	23.14 0.80 -0.65	23.96 0.82 -1.69	24.32 0.91 -0.15	27.59 1.03 -0.20	32.76 1.07 -3.47	36.88 1.05 -8.15	39.25 1.19 -7.65	40.58 1.07 -12.10	33.05 1.09 -5.42	25.01 0.94 -2.27	25.96 0.47 -13.85
ALTONA_WT_PWR 323606	7.26 0.06 0.00	7.16 0.09 0.00	7.28 0.08 0.00	7.29 0.09 0.00	7.29 0.09 0.00	8.14 0.10 0.00	9.40 0.15 0.00	12.14 0.27 0.00	15.12 0.25 0.00	15.68 0.32 0.00	19.12 0.32 0.00	19.70 0.23 0.00	20.58 0.22 0.00	21.85 0.17 0.00	21.58 0.13 0.00	23.40 0.14 0.00	26.59 0.24 0.00	28.59 0.37 0.00	28.18 0.50 0.00	30.93 0.52 0.00	27.82 0.41 0.00	26.63 0.08 0.00	21.43 -0.37 0.00	11.34 -0.30 0.00
AMERICAN_REF_FUEL 24010	9.49 -0.06 -2.34	9.09 -0.12 -2.14	8.96 -0.08 -1.83	8.69 -0.06 -1.55	8.88 -0.02 -1.69	9.93 -0.13 -2.01	11.76 -0.31 -2.82	13.85 -0.78 -2.76	15.49 -1.04 -1.66	15.23 -1.14 -1.01	17.90 -1.39 -0.49	18.29 -1.50 -0.32	19.10 -1.40 -0.15	20.49 -1.28 -0.09	20.53 -1.16 -0.23	21.98 -1.30 -0.02	24.77 -1.61 -0.03	26.78 -1.92 -0.48	26.76 -2.05 -1.13	29.12 -1.95 -0.65	26.68 -1.75 -1.03	25.91 -1.38 -0.75	21.33 -0.78 -0.31	13.30 -0.26 -1.91
ARKWRIGHT___SUMMIT_WT_PWR 323751	10.06 0.19 -2.66	9.62 0.11 -2.44	9.44 0.15 -2.09	9.15 0.18 -1.77	9.37 0.24 -1.93	10.55 0.21 -2.29	12.63 0.17 -3.21	14.92 -0.10 -3.15	16.65 -0.10 -1.88	16.41 -0.09 -1.15	19.21 -0.15 -0.56	19.65 -0.18 -0.37	20.50 -0.02 -0.17	22.02 0.24 -0.10	22.08 0.36 -0.26	23.78 0.49 -0.02	26.68 0.29 -0.03	28.93 0.17 -0.54	29.04 0.08 -1.28	31.62 0.46 -0.75	29.07 0.47 -1.19	27.63 0.24 -0.85	22.55 0.39 -0.36	14.09 0.28 -2.17
ARTHUR_KILL_GT_1 23520	20.99 0.50 -13.28	19.72 0.49 -12.16	18.11 0.48 -10.43	16.51 0.48 -8.82	17.29 0.48 -9.61	19.99 0.51 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.70	25.26 1.01 -9.38	22.31 1.07 -5.89	22.98 1.32 -2.86	22.79 1.44 -1.89	22.70 1.49 -0.86	23.91 1.69 -0.53	24.50 1.67 -1.37	25.18 1.79 -0.13	28.45 1.92 -0.17	33.12 2.12 -2.78	36.33 2.10 -6.55	36.83 2.19 -4.22	36.03 1.95 -6.68	32.82 1.91 -4.36	25.24 1.61 -1.83	23.68 0.88 -11.16
ARTHUR_KILL_2 23512	20.97 0.48 -13.28	19.70 0.47 -12.16	18.09 0.46 -10.43	16.49 0.47 -8.82	17.28 0.46 -9.61	19.96 0.48 -11.43	25.83 0.56 -16.02	28.29 0.72 -15.70	25.23 0.98 -9.38	22.28 1.04 -5.89	22.94 1.28 -2.86	22.75 1.40 -1.89	22.64 1.42 -0.86	23.86 1.65 -0.53	24.43 1.61 -1.37	25.11 1.72 -0.13	28.40 1.87 -0.17	33.04 2.03 -2.78	36.23 1.99 -6.55	36.73 2.10 -4.22	35.95 1.86 -6.68	32.74 1.83 -4.36	25.20 1.57 -1.83	23.65 0.85 -11.16
ARTHUR_KILL_3 23513	20.94 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.46 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.02 1.35 -2.86	22.81 1.46 -1.89	22.68 1.47 -0.86	23.85 1.65 -0.53	24.42 1.61 -1.36	25.08 1.70 -0.12	28.36 1.84 -0.16	32.93 1.92 -2.79	36.09 1.85 -6.56	36.59 1.95 -4.23	35.82 1.73 -6.69	32.68 1.78 -4.36	25.07 1.44 -1.83	23.56 0.77 -11.15
ARTHUR_KILL_COGEN 323718	20.99 0.50 -13.28	19.72 0.49 -12.16	18.11 0.48 -10.43	16.51 0.48 -8.82	17.29 0.48 -9.61	19.99 0.51 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.70	25.26 1.01 -9.38	22.31 1.07 -5.89	22.98 1.32 -2.86	22.79 1.44 -1.89	22.70 1.49 -0.86	23.91 1.69 -0.53	24.50 1.67 -1.37	25.18 1.79 -0.13	28.45 1.92 -0.17	33.12 2.12 -2.78	36.33 2.10 -6.55	36.83 2.19 -4.22	36.03 1.95 -6.68	32.82 1.91 -4.36	25.24 1.61 -1.83	23.68 0.88 -11.16
ASHOKAN____ 23654	22.01 0.17 -14.63	20.61 0.15 -13.39	18.82 0.14 -11.48	17.05 0.13 -9.72	17.94 0.14 -10.59	20.80 0.15 -12.61	27.09 0.18 -17.66	29.39 0.21 -17.30	25.59 0.39 -10.34	22.15 0.31 -6.49	22.28 0.32 -3.16	21.87 0.33 -2.08	21.62 0.32 -0.94	22.63 0.37 -0.58	23.38 0.43 -1.50	24.28 0.88 -0.13	27.17 0.63 -0.18	32.18 0.88 -3.08	35.85 0.94 -7.23	37.19 0.79 -5.98	37.66 0.80 -9.46	31.99 0.64 -4.80	24.43 0.61 -2.02	24.14 0.21 -12.29



ASTORIA_EAST_ENERGY_CC1 323581	21.00 0.51 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.03 0.55 -11.43	25.85 0.58 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.71 1.51 -0.85	23.91 1.71 -0.52	24.50 1.69 -1.35	25.17 1.79 -0.11	28.41 1.90 -0.15	33.01 2.00 -2.78	36.17 1.94 -6.55	36.70 2.07 -4.22	35.93 1.84 -6.68	32.73 1.83 -4.35	25.11 1.48 -1.83	23.64 0.84 -11.16
ASTORIA_EAST_ENERGY_CC2 323582	21.00 0.51 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.03 0.55 -11.43	25.85 0.58 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.71 1.51 -0.85	23.91 1.71 -0.52	24.50 1.69 -1.35	25.17 1.79 -0.11	28.41 1.90 -0.15	33.01 2.00 -2.78	36.17 1.94 -6.55	36.70 2.07 -4.22	35.93 1.84 -6.68	32.73 1.83 -4.35	25.11 1.48 -1.83	23.64 0.84 -11.16
ASTORIA_GT2_1 24094	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT2_2 24095	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT2_3 24096	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT2_4 24097	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT3_1 24098	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT3_2 24099	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT3_3 24100	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT3_4 24101	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT4_1 24102	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT4_2 24103	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT4_3 24104	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT4_4 24105	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA_GT_1 23523	21.01 0.53 -13.28	19.75 0.52 -12.16	18.16 0.53 -10.43	16.56 0.54 -8.82	17.36 0.54 -9.61	20.04 0.56 -11.43	25.87 0.60 -16.02	28.33 0.77 -15.69	25.33 1.09 -9.37	22.40 1.17 -5.88	23.07 1.41 -2.86	22.86 1.52 -1.88	22.77 1.57 -0.85	23.98 1.78 -0.52	24.56 1.76 -1.35	25.24 1.86 -0.11	28.49 1.98 -0.15	33.06 2.06 -2.78	36.25 2.02 -6.55	36.76 2.13 -4.22	36.01 1.92 -6.68	32.78 1.89 -4.35	25.16 1.53 -1.83	23.66 0.86 -11.16



ASTORIA_GT_10 24110	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
ASTORIA_GT_11 24225	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
ASTORIA_GT_12 24226	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
ASTORIA_GT_13 24227	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
ASTORIA_GT_5 24106	21.01 0.53 -13.28	19.75 0.52 -12.16	18.16 0.53 -10.43	16.56 0.54 -8.82	17.36 0.54 -9.61	20.04 0.56 -11.43	25.87 0.60 -16.02	28.33 0.77 -15.69	25.33 1.09 -9.37	22.40 1.17 -5.88	23.07 1.41 -2.86	22.86 1.52 -1.88	22.77 1.57 -0.85	23.98 1.78 -0.52	24.56 1.76 -1.35	25.24 1.86 -0.11	28.49 1.98 -0.15	33.06 2.06 -2.78	36.25 2.02 -6.55	36.76 2.13 -4.22	36.01 1.92 -6.68	32.78 1.89 -4.35	25.16 1.53 -1.83	23.66 0.86 -11.16
ASTORIA_GT_7 24107	21.01 0.53 -13.28	19.75 0.52 -12.16	18.16 0.53 -10.43	16.56 0.54 -8.82	17.36 0.54 -9.61	20.04 0.56 -11.43	25.87 0.60 -16.02	28.33 0.77 -15.69	25.33 1.09 -9.37	22.40 1.17 -5.88	23.07 1.41 -2.86	22.86 1.52 -1.88	22.77 1.57 -0.85	23.98 1.78 -0.52	24.56 1.76 -1.35	25.24 1.86 -0.11	28.49 1.98 -0.15	33.06 2.06 -2.78	36.25 2.02 -6.55	36.76 2.13 -4.22	36.01 1.92 -6.68	32.78 1.89 -4.35	25.16 1.53 -1.83	23.66 0.86 -11.16
ASTORIA_GT_8 24108	21.01 0.53 -13.28	19.75 0.52 -12.16	18.16 0.53 -10.43	16.56 0.54 -8.82	17.36 0.54 -9.61	20.04 0.56 -11.43	25.87 0.60 -16.02	28.33 0.77 -15.69	25.33 1.09 -9.37	22.40 1.17 -5.88	23.07 1.41 -2.86	22.86 1.52 -1.88	22.77 1.57 -0.85	23.98 1.78 -0.52	24.56 1.76 -1.35	25.24 1.86 -0.11	28.49 1.98 -0.15	33.06 2.06 -2.78	36.25 2.02 -6.55	36.76 2.13 -4.22	36.01 1.92 -6.68	32.78 1.89 -4.35	25.16 1.53 -1.83	23.66 0.86 -11.16
ASTORIA___2 24149	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.73 1.53 -0.85	23.93 1.74 -0.52	24.52 1.72 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.01 2.00 -2.78	36.20 1.97 -6.55	36.70 2.07 -4.22	35.95 1.86 -6.68	32.73 1.83 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
ASTORIA___3 23516	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
ASTORIA___4 23517	20.99 0.50 -13.28	19.72 0.50 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.89 1.54 -1.89	22.81 1.59 -0.86	27.32 1.78 -3.86	25.82 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.87 2.22 -4.23	36.07 1.97 -6.69	32.90 1.99 -4.36	25.14 1.50 -1.83	23.64 0.84 -11.16
ASTORIA___5 23518	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
AST_ENERGY_2_CC3 323677	20.94 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.47 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.83 0.56 -16.02	28.27 0.72 -15.68	25.24 1.01 -9.36	22.33 1.09 -5.89	22.98 1.32 -2.86	22.77 1.42 -1.89	22.66 1.45 -0.86	23.83 1.63 -0.53	24.38 1.59 -1.34	25.07 1.70 -0.10	28.35 1.84 -0.15	32.94 1.95 -2.78	36.13 1.91 -6.54	36.63 2.01 -4.21	35.86 1.78 -6.67	32.70 1.81 -4.34	25.07 1.44 -1.83	23.55 0.76 -11.15
AST_ENERGY_2_CC4 323678	20.94 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.47 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.83 0.56 -16.02	28.27 0.72 -15.68	25.24 1.01 -9.36	22.33 1.09 -5.89	22.98 1.32 -2.86	22.77 1.42 -1.89	22.66 1.45 -0.86	23.83 1.63 -0.53	24.38 1.59 -1.34	25.07 1.70 -0.10	28.35 1.84 -0.15	32.94 1.95 -2.78	36.13 1.91 -6.54	36.63 2.01 -4.21	35.86 1.78 -6.67	32.70 1.81 -4.34	25.07 1.44 -1.83	23.55 0.76 -11.15
ATHENS_STG_1 23668	22.38 0.25 -14.92	20.98 0.25 -13.66	19.16 0.25 -11.71	17.36 0.25 -9.91	18.26 0.26 -10.80	21.18 0.28 -12.85	27.58 0.32 -18.01	29.90 0.39 -17.64	25.95 0.53 -10.54	22.52 0.55 -6.62	22.70 0.68 -3.22	22.30 0.72 -2.12	22.07 0.75 -0.96	23.14 0.87 -0.59	23.84 0.86 -1.53	24.33 0.93 -0.14	27.57 1.03 -0.18	32.43 1.07 -3.14	36.10 1.05 -7.37	35.97 1.13 -4.43	35.43 1.01 -7.00	32.51 1.06 -4.90	24.75 0.89 -2.06	24.63 0.45 -12.53
ATHENS_STG_2 23670	22.38 0.25 -14.92	20.98 0.25 -13.66	19.16 0.25 -11.71	17.36 0.25 -9.91	18.26 0.26 -10.80	21.18 0.28 -12.85	27.58 0.32 -18.01	29.90 0.39 -17.64	25.95 0.53 -10.54	22.52 0.55 -6.62	22.70 0.68 -3.22	22.30 0.72 -2.12	22.07 0.75 -0.96	23.14 0.87 -0.59	23.84 0.86 -1.53	24.33 0.93 -0.14	27.57 1.03 -0.18	32.43 1.07 -3.14	36.10 1.05 -7.37	35.97 1.13 -4.43	35.43 1.01 -7.00	32.51 1.06 -4.90	24.75 0.89 -2.06	24.63 0.45 -12.53



ATHENS_STG_3 23677	22.38 0.25 -14.92	20.98 0.25 -13.66	19.16 0.25 -11.71	17.36 0.25 -9.91	18.26 0.26 -10.80	21.18 0.28 -12.85	27.58 0.32 -18.01	29.90 0.39 -17.64	25.95 0.53 -10.54	22.52 0.55 -6.62	22.70 0.68 -3.22	22.30 0.72 -2.12	22.07 0.75 -0.96	23.14 0.87 -0.59	23.84 0.86 -1.53	24.33 0.93 -0.14	27.57 1.03 -0.18	32.43 1.07 -3.14	36.10 1.05 -7.37	35.97 1.13 -4.43	35.43 1.01 -7.00	32.51 1.06 -4.90	24.75 0.89 -2.06	24.63 0.45 -12.53
AUBURN____LFGE 323710	9.14 0.05 -1.88	8.82 0.03 -1.72	8.71 0.04 -1.48	8.49 0.04 -1.25	8.61 0.04 -1.36	9.74 0.07 -1.62	11.62 0.10 -2.27	14.17 0.07 -2.23	16.25 0.04 -1.33	16.19 0.03 -0.81	19.29 0.09 -0.39	19.86 0.14 -0.26	20.63 0.16 -0.12	22.10 0.35 -0.07	22.01 0.36 -0.19	23.72 0.44 -0.02	26.85 0.47 -0.02	29.06 0.45 -0.38	28.97 0.39 -0.90	31.37 0.46 -0.50	28.66 0.47 -0.78	27.54 0.40 -0.60	22.29 0.24 -0.25	13.38 0.21 -1.53
BABYLON_RES_REC 323704	22.92 0.56 -15.15	20.47 0.56 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.99 0.72 -16.02	28.47 0.90 -15.70	25.45 1.20 -9.38	25.15 1.29 -8.51	25.75 1.47 -5.48	25.90 1.60 -4.84	26.21 1.61 -4.25	26.86 1.97 -3.21	28.23 1.93 -4.84	30.57 2.07 -5.24	34.52 2.11 -6.05	42.16 2.12 -11.82	45.41 2.08 -15.65	41.27 2.31 -8.55	42.27 2.08 -12.78	34.68 2.12 -6.01	29.13 1.79 -5.54	24.71 0.95 -12.12
BABYLON__69_KV_BK2 356345	22.97 0.61 -15.15	20.52 0.61 -12.84	18.23 0.61 -10.42	18.92 0.62 -11.10	17.51 0.62 -9.68	20.35 0.69 -11.62	26.06 0.79 -16.02	28.55 0.99 -15.70	25.56 1.31 -9.38	25.26 1.40 -8.51	25.88 1.60 -5.48	26.02 1.71 -4.84	26.35 1.75 -4.25	26.99 2.10 -3.21	28.38 2.08 -4.84	30.76 2.26 -5.24	34.94 2.53 -6.05	42.72 2.68 -11.82	45.96 2.63 -15.65	41.85 2.89 -8.55	42.74 2.55 -12.78	35.08 2.52 -6.01	29.26 1.92 -5.54	24.79 1.04 -12.12
BARON_WINDS____WT_PWR 323822	10.66 0.12 -3.33	10.18 0.06 -3.05	9.91 0.09 -2.61	9.52 0.11 -2.21	9.75 0.13 -2.41	11.04 0.12 -2.87	13.35 0.08 -4.02	15.69 -0.12 -3.94	17.04 -0.18 -2.34	16.58 -0.20 -1.43	19.25 -0.24 -0.69	19.65 -0.27 -0.46	20.40 -0.16 -0.21	21.79 -0.02 -0.13	21.85 0.06 -0.33	23.53 0.23 -0.03	26.71 0.32 -0.04	29.15 0.25 -0.68	29.44 0.17 -1.59	31.84 0.46 -0.97	29.43 0.49 -1.53	27.93 0.34 -1.04	22.65 0.41 -0.44	14.66 0.35 -2.67
BARRETT_IC_1 23704	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_10 23701	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_11 23702	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_12 23703	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_2 23705	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_3 23706	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_4 23707	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_5 23708	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_6 23709	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_7 23710	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12



BARRETT_IC_8 23711	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT_IC_9 23700	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT___1 23545	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BARRETT___2 23546	22.94 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.01 0.74 -16.02	28.48 0.91 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.82 1.54 -5.48	25.98 1.67 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.16 1.87 -4.84	30.43 1.93 -5.24	34.57 2.16 -6.05	42.33 2.28 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.20 1.85 -5.55	24.74 0.98 -12.12
BATAVIA___115KV_TB1 55881	9.62 0.14 -2.27	9.21 0.06 -2.08	9.08 0.10 -1.78	8.83 0.12 -1.51	9.02 0.17 -1.64	10.13 0.11 -1.97	11.99 -0.02 -2.75	14.19 -0.38 -2.70	15.93 -0.55 -1.61	15.69 -0.64 -0.98	18.38 -0.90 -0.48	18.82 -0.95 -0.31	19.54 -0.96 -0.14	21.07 -0.69 -0.09	21.10 -0.58 -0.23	22.66 -0.63 -0.02	25.51 -0.87 -0.03	27.67 -1.02 -0.46	27.66 -1.11 -1.09	30.16 -0.88 -0.63	27.66 -0.74 -0.99	26.74 -0.53 -0.73	22.08 -0.02 -0.30	13.65 0.15 -1.85
BAYONEEC___CTG1 323682	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG10 323750	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG2 323683	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG3 323684	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG4 323685	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG5 323686	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG6 323687	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG7 323688	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG8 323689	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
BAYONEEC___CTG9 323749	20.94 0.46 -13.27	19.68 0.46 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.86 0.59 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.37 1.14 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15



BEACON___LESR 323632	23.99 0.36 -16.42	22.44 0.34 -15.03	20.44 0.35 -12.89	18.46 0.35 -10.91	19.44 0.35 -11.88	22.60 0.41 -14.15	29.53 0.46 -19.81	31.84 0.56 -19.42	27.21 0.74 -11.60	23.37 0.74 -7.28	23.23 0.88 -3.54	22.71 0.91 -2.33	22.37 0.96 -1.06	23.46 1.13 -0.65	24.29 1.16 -1.68	24.71 1.30 -0.15	28.08 1.53 -0.20	33.31 1.64 -3.45	37.40 1.60 -8.11	40.49 1.79 -8.28	42.13 1.62 -13.10	33.53 1.59 -5.39	25.42 1.35 -2.26	26.07 0.64 -13.79
BEAVER RIVER___HYD 24048	7.87 0.03 -0.63	7.66 0.01 -0.58	7.71 0.01 -0.50	7.66 0.04 -0.42	7.72 0.05 -0.46	8.70 0.10 -0.54	10.17 0.16 -0.76	12.77 0.15 -0.75	15.36 0.04 -0.45	15.61 -0.02 -0.27	18.93 0.00 -0.13	19.53 -0.02 -0.09	20.35 -0.04 -0.04	21.60 -0.11 -0.02	21.34 -0.17 -0.06	23.08 -0.19 -0.01	26.36 0.00 -0.01	28.52 0.17 -0.13	28.20 0.22 -0.30	30.84 0.43 0.00	27.79 0.38 0.00	27.04 0.29 -0.20	22.19 0.31 -0.08	12.33 0.17 -0.52
BEEBEE_GT_13 23619	9.16 0.11 -1.84	8.80 0.04 -1.69	8.71 0.06 -1.45	8.50 0.08 -1.22	8.65 0.11 -1.33	9.75 0.11 -1.59	11.54 0.06 -2.22	13.94 -0.11 -2.18	16.01 -0.16 -1.30	15.93 -0.21 -0.79	18.85 -0.34 -0.39	19.35 -0.37 -0.25	20.14 -0.33 -0.12	21.62 -0.13 -0.07	21.55 -0.09 -0.18	23.12 -0.16 -0.02	26.17 -0.21 -0.02	28.26 -0.34 -0.38	28.21 -0.36 -0.89	30.47 -0.43 -0.49	27.88 -0.30 -0.77	27.08 -0.05 -0.59	22.20 0.15 -0.25	13.40 0.26 -1.51
BENSHRST_27_KV_BENSHRST_1 355998	21.02 0.53 -13.28	19.74 0.52 -12.16	18.14 0.51 -10.43	16.53 0.51 -8.82	17.33 0.51 -9.61	20.03 0.55 -11.43	25.92 0.65 -16.02	28.42 0.85 -15.70	25.42 1.17 -9.38	22.48 1.24 -5.89	23.21 1.54 -2.86	23.00 1.65 -1.89	22.93 1.71 -0.86	27.47 1.93 -3.86	25.99 1.91 -2.62	25.42 2.02 -0.13	28.74 2.21 -0.17	36.60 2.40 -5.98	37.44 2.35 -7.40	37.14 2.49 -4.23	36.32 2.22 -6.69	33.14 2.23 -4.36	25.29 1.66 -1.83	23.72 0.92 -11.16
BETHLEHEM___GRP 23843	23.95 0.30 -16.45	22.41 0.28 -15.06	20.41 0.30 -12.91	18.42 0.30 -10.93	19.40 0.30 -11.90	22.55 0.33 -14.17	29.47 0.37 -19.85	31.77 0.45 -19.45	27.09 0.59 -11.62	23.23 0.58 -7.29	23.06 0.71 -3.55	22.54 0.74 -2.34	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.44 1.02 -0.15	27.74 1.19 -0.20	32.92 1.24 -3.46	37.03 1.22 -8.13	40.03 1.37 -8.25	41.69 1.23 -13.05	33.22 1.27 -5.40	25.18 1.11 -2.27	25.99 0.54 -13.81
BETHLEHEM___GS1 323560	23.95 0.30 -16.45	22.41 0.28 -15.06	20.41 0.30 -12.91	18.42 0.30 -10.93	19.40 0.30 -11.90	22.55 0.33 -14.17	29.47 0.37 -19.85	31.77 0.45 -19.45	27.09 0.60 -11.62	23.23 0.58 -7.29	23.06 0.71 -3.55	22.54 0.74 -2.34	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.44 1.02 -0.15	27.74 1.19 -0.20	32.92 1.24 -3.46	37.03 1.22 -8.13	40.02 1.37 -8.23	41.66 1.23 -13.02	33.22 1.27 -5.40	25.16 1.09 -2.27	25.98 0.52 -13.81
BETHLEHEM___GS2 323561	23.95 0.30 -16.45	22.41 0.28 -15.06	20.41 0.30 -12.91	18.42 0.30 -10.93	19.40 0.30 -11.90	22.55 0.33 -14.17	29.47 0.37 -19.85	31.77 0.45 -19.45	27.09 0.60 -11.62	23.23 0.58 -7.29	23.06 0.71 -3.55	22.54 0.74 -2.34	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.44 1.02 -0.15	27.74 1.19 -0.20	32.92 1.24 -3.46	37.03 1.22 -8.13	40.02 1.37 -8.23	41.66 1.23 -13.02	33.22 1.27 -5.40	25.16 1.09 -2.27	25.98 0.52 -13.81
BETHLEHEM___GS3 323562	23.95 0.30 -16.45	22.41 0.28 -15.06	20.41 0.30 -12.91	18.42 0.30 -10.93	19.40 0.30 -11.90	22.55 0.33 -14.17	29.47 0.37 -19.85	31.77 0.45 -19.45	27.09 0.60 -11.62	23.23 0.58 -7.29	23.06 0.71 -3.55	22.54 0.74 -2.34	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.44 1.02 -0.15	27.74 1.19 -0.20	32.92 1.24 -3.46	37.03 1.22 -8.13	40.02 1.37 -8.23	41.66 1.23 -13.02	33.22 1.27 -5.40	25.16 1.09 -2.27	25.98 0.52 -13.81
BETHLEHEM___STEEL 23779	9.85 0.12 -2.53	9.43 0.04 -2.31	9.27 0.09 -1.98	8.99 0.11 -1.68	9.19 0.15 -1.83	10.34 0.11 -2.18	12.34 0.04 -3.05	14.59 -0.27 -2.99	16.27 -0.39 -1.79	16.01 -0.43 -1.09	18.65 -0.68 -0.53	19.15 -0.66 -0.35	19.86 -0.65 -0.16	21.43 -0.35 -0.10	21.47 -0.24 -0.25	23.15 -0.14 -0.02	25.94 -0.45 -0.03	28.09 -0.65 -0.51	28.17 -0.72 -1.21	30.70 -0.43 -0.71	28.25 -0.27 -1.12	27.00 -0.35 -0.80	22.20 0.07 -0.34	13.89 0.20 -2.05
BETHLHEM_115KV_TB1 79974	23.94 0.29 -16.45	22.40 0.28 -15.05	20.39 0.29 -12.91	18.41 0.29 -10.92	19.39 0.29 -11.90	22.54 0.32 -14.17	29.46 0.36 -19.84	31.75 0.44 -19.45	27.07 0.58 -11.62	23.21 0.57 -7.29	23.04 0.70 -3.55	22.52 0.72 -2.34	22.19 0.77 -1.06	23.22 0.89 -0.65	24.04 0.90 -1.68	24.41 1.00 -0.15	27.72 1.16 -0.20	32.89 1.21 -3.46	37.00 1.19 -8.13	39.83 1.34 -8.07	41.38 1.21 -12.77	33.19 1.25 -5.40	25.14 1.07 -2.27	25.98 0.52 -13.81
BETHPAGE_CC_5 323564	22.92 0.56 -15.15	20.47 0.56 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.45 0.56 -9.68	20.29 0.63 -11.62	25.99 0.72 -16.02	28.48 0.91 -15.70	25.47 1.22 -9.38	25.18 1.32 -8.51	25.79 1.50 -5.48	25.94 1.64 -4.84	26.25 1.65 -4.25	26.84 1.95 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.62 2.21 -6.05	42.41 2.37 -11.82	45.62 2.30 -15.65	41.45 2.49 -8.55	42.41 2.22 -12.78	34.76 2.20 -6.01	29.13 1.79 -5.54	24.71 0.95 -12.12
BIGTREE_115_KV_TB2_REV_LBMP_A 345034	9.86 0.10 -2.56	9.45 0.04 -2.34	9.28 0.07 -2.01	8.99 0.09 -1.70	9.19 0.14 -1.85	10.35 0.10 -2.20	12.36 0.02 -3.09	14.60 -0.30 -3.02	16.28 -0.40 -1.81	16.01 -0.45 -1.10	18.64 -0.70 -0.54	19.13 -0.68 -0.35	19.84 -0.67 -0.16	21.41 -0.37 -0.10	21.45 -0.26 -0.25	23.17 -0.12 -0.02	25.94 -0.45 -0.03	28.09 -0.65 -0.52	28.15 -0.75 -1.22	30.74 -0.40 -0.72	28.30 -0.25 -1.13	26.99 -0.37 -0.81	22.16 0.02 -0.34	13.89 0.17 -2.08
BINGHAMTON___COGEN 23790	11.83 0.14 -4.48	11.28 0.11 -4.10	10.84 0.12 -3.52	10.31 0.13 -2.98	10.59 0.14 -3.24	12.07 0.16 -3.86	14.83 0.17 -5.41	17.28 0.11 -5.30	18.16 0.12 -3.17	17.38 0.12 -1.91	19.90 0.17 -0.93	20.27 0.19 -0.61	20.85 0.22 -0.28	22.20 0.35 -0.17	22.28 0.39 -0.44	23.81 0.51 -0.04	26.91 0.50 -0.05	29.63 0.51 -0.90	30.24 0.44 -2.12	32.36 0.61 -1.34	30.10 0.58 -2.11	28.43 0.48 -1.41	22.87 0.48 -0.59	15.57 0.33 -3.61
BIXINCNT_115KV_LOAD 355685	10.01 0.12 -2.69	9.58 0.05 -2.46	9.40 0.09 -2.11	9.09 0.11 -1.79	9.31 0.16 -1.95	10.49 0.13 -2.32	12.57 0.07 -3.25	14.85 -0.20 -3.18	16.51 -0.27 -1.90	16.22 -0.29 -1.16	18.91 -0.45 -0.56	19.42 -0.41 -0.37	20.11 -0.41 -0.17	21.65 -0.13 -0.10	21.70 -0.02 -0.27	23.57 0.28 -0.02	26.20 -0.18 -0.03	28.43 -0.34 -0.55	28.53 -0.44 -1.29	31.30 0.12 -0.76	28.84 0.22 -1.21	27.27 -0.13 -0.86	22.34 0.17 -0.36	14.05 0.22 -2.19
BLACK RIVER___HYD 24047	8.15 0.07 -0.87	7.92 0.05 -0.80	7.93 0.05 -0.68	7.86 0.08 -0.58	7.94 0.10 -0.63	8.97 0.18 -0.75	10.53 0.23 -1.05	13.11 0.21 -1.03	15.56 0.07 -0.61	15.71 -0.02 -0.38	19.02 0.04 -0.18	19.60 0.02 -0.12	20.43 0.02 -0.05	21.69 -0.02 -0.03	21.50 -0.04 -0.09	23.23 -0.05 -0.01	26.58 0.21 -0.01	28.85 0.45 -0.18	28.60 0.50 -0.42	31.24 0.82 0.00	28.12 0.71 0.00	27.38 0.56 -0.28	22.46 0.55 -0.12	12.67 0.31 -0.71



BLACKRVR_115KV_TB2 79977	8.15 0.07 -0.87	7.92 0.05 -0.80	7.93 0.05 -0.68	7.86 0.08 -0.58	7.94 0.10 -0.63	8.97 0.18 -0.75	10.53 0.23 -1.05	13.11 0.21 -1.03	15.56 0.07 -0.61	15.71 -0.02 -0.38	19.00 0.02 -0.18	19.60 0.02 -0.12	20.41 0.00 -0.05	21.69 -0.02 -0.03	21.50 -0.04 -0.09	23.23 -0.05 -0.01	26.58 0.21 -0.01	28.85 0.45 -0.18	28.60 0.50 -0.42	31.24 0.82 0.00	28.12 0.71 0.00	27.38 0.56 -0.28	22.46 0.55 -0.12	12.67 0.31 -0.71
BLISS_WT_PWR 323608	10.01 0.11 -2.69	9.58 0.04 -2.46	9.40 0.09 -2.11	9.09 0.11 -1.79	9.30 0.15 -1.95	10.48 0.12 -2.32	12.57 0.07 -3.24	14.85 -0.20 -3.18	16.51 -0.27 -1.90	16.23 -0.28 -1.16	18.99 -0.38 -0.56	19.44 -0.39 -0.37	20.26 -0.27 -0.17	21.70 -0.09 -0.10	21.72 0.00 -0.27	23.59 0.30 -0.02	26.23 -0.16 -0.03	28.46 -0.31 -0.55	28.55 -0.41 -1.29	31.33 0.15 -0.76	28.86 0.25 -1.20	27.30 -0.11 -0.86	22.34 0.17 -0.36	14.05 0.22 -2.19
BLUE_CIRC_CHEM_DRP 24182	23.68 0.30 -16.17	22.15 0.28 -14.80	20.19 0.30 -12.69	18.23 0.30 -10.74	19.21 0.30 -11.70	22.31 0.34 -13.93	29.13 0.37 -19.51	31.43 0.44 -19.12	26.87 0.58 -11.42	23.07 0.55 -7.17	22.95 0.66 -3.49	22.44 0.68 -2.30	22.13 0.73 -1.04	23.17 0.85 -0.64	23.99 0.88 -1.65	24.39 0.98 -0.15	27.69 1.13 -0.20	32.84 1.21 -3.40	36.86 1.19 -7.99	38.98 1.34 -7.22	40.07 1.23 -11.42	33.10 1.25 -5.31	25.12 1.09 -2.23	25.74 0.52 -13.58
BOC_GAS_DRP 24189	23.87 0.25 -16.42	22.33 0.23 -15.02	20.32 0.24 -12.88	18.35 0.24 -10.90	19.33 0.25 -11.88	22.46 0.27 -14.14	29.36 0.31 -19.81	31.65 0.37 -19.41	26.96 0.49 -11.59	23.12 0.49 -7.28	22.94 0.60 -3.54	22.42 0.62 -2.33	22.06 0.65 -1.06	23.11 0.78 -0.65	23.91 0.77 -1.68	24.27 0.86 -0.15	27.53 0.98 -0.20	32.69 1.02 -3.45	36.76 0.97 -8.11	38.60 1.09 -7.09	39.61 0.99 -11.21	32.97 1.04 -5.39	24.96 0.89 -2.26	25.87 0.44 -13.78
BOONVILLE_115KV_TB1 79983	7.88 0.12 -0.55	7.68 0.10 -0.51	7.73 0.09 -0.43	7.68 0.12 -0.37	7.74 0.13 -0.40	8.70 0.18 -0.48	10.15 0.23 -0.67	12.78 0.26 -0.65	15.49 0.22 -0.39	15.79 0.20 -0.24	19.22 0.30 -0.12	19.85 0.31 -0.08	20.71 0.33 -0.03	22.00 0.30 -0.02	21.77 0.26 -0.06	23.55 0.28 0.00	26.81 0.45 -0.01	28.93 0.59 -0.11	28.55 0.61 -0.27	31.17 0.76 0.00	28.10 0.69 0.00	27.28 0.56 -0.18	22.44 0.57 -0.07	12.41 0.31 -0.45
BORALEX_4TH_BRANCH 23824	23.95 0.32 -16.42	22.41 0.31 -15.03	20.41 0.32 -12.89	18.44 0.33 -10.91	19.42 0.34 -11.88	22.57 0.38 -14.15	29.50 0.43 -19.81	31.82 0.53 -19.42	27.12 0.65 -11.60	23.29 0.66 -7.28	23.07 0.73 -3.54	22.53 0.74 -2.33	22.21 0.79 -1.06	23.28 0.95 -0.65	24.06 0.92 -1.68	24.41 1.00 -0.15	27.74 1.19 -0.20	32.95 1.27 -3.45	37.04 1.25 -8.11	41.98 1.46 -10.10	44.70 1.32 -15.98	33.34 1.41 -5.39	25.28 1.22 -2.26	26.02 0.59 -13.79
BOWLINE__1 23526	20.45 0.38 -12.86	19.21 0.37 -11.77	17.66 0.37 -10.09	16.11 0.37 -8.54	16.88 0.37 -9.30	19.54 0.42 -11.08	25.26 0.49 -15.51	27.69 0.62 -15.20	24.82 0.86 -9.08	21.98 0.92 -5.70	22.70 1.13 -2.77	22.50 1.21 -1.83	22.43 1.24 -0.83	23.60 1.41 -0.51	24.16 1.39 -1.32	24.89 1.51 -0.12	28.15 1.63 -0.16	32.71 1.78 -2.71	35.75 1.72 -6.36	36.31 1.79 -4.10	35.51 1.62 -6.49	32.36 1.59 -4.22	24.84 1.26 -1.77	23.09 0.65 -10.80
BOWLINE__2 23595	20.45 0.38 -12.86	19.22 0.37 -11.77	17.67 0.37 -10.09	16.11 0.37 -8.54	16.88 0.37 -9.30	19.54 0.42 -11.08	25.26 0.49 -15.52	27.69 0.62 -15.21	24.82 0.86 -9.08	21.98 0.92 -5.70	22.70 1.13 -2.77	22.50 1.21 -1.83	22.43 1.24 -0.83	23.60 1.41 -0.51	24.16 1.39 -1.32	24.89 1.51 -0.12	28.15 1.63 -0.16	32.71 1.78 -2.71	35.75 1.72 -6.36	36.31 1.79 -4.10	35.51 1.62 -6.49	32.36 1.59 -4.22	24.84 1.26 -1.77	23.10 0.65 -10.80
BRADY__115KV_TB2 356060	7.11 -0.10 0.00	7.00 -0.07 0.00	7.11 -0.09 0.00	7.12 -0.08 0.00	7.13 -0.08 0.00	7.96 -0.09 0.00	9.19 -0.06 0.00	11.85 -0.02 0.00	14.72 -0.15 0.00	15.25 -0.11 0.00	18.65 -0.15 0.00	19.25 -0.21 0.00	20.11 -0.24 0.00	21.22 -0.46 0.00	20.87 -0.58 0.00	22.61 -0.65 0.00	25.72 -0.63 0.00	27.63 -0.59 0.00	27.21 -0.47 0.00	29.93 -0.49 0.00	27.00 -0.41 0.00	26.07 -0.48 0.00	21.34 -0.46 0.00	11.39 -0.26 0.00
BRANSCOMB__SOLAR 323811	24.60 0.41 -16.98	22.99 0.37 -15.54	20.92 0.40 -13.33	18.87 0.39 -11.28	19.90 0.40 -12.29	23.14 0.46 -14.63	30.28 0.54 -20.49	32.59 0.64 -20.08	27.67 0.80 -11.99	23.63 0.75 -7.53	23.33 0.87 -3.66	22.79 0.91 -2.41	22.34 0.89 -1.10	23.44 1.08 -0.67	24.29 1.09 -1.74	24.60 1.19 -0.15	27.78 1.21 -0.21	33.09 1.30 -3.57	37.38 1.30 -8.39	44.34 1.52 -12.41	48.46 1.42 -19.62	33.50 1.38 -5.58	25.32 1.18 -2.34	26.44 0.54 -14.27
BRENTWOD_69_KV_W. BRTWOOD 56703	22.92 0.57 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.47 1.22 -9.38	25.17 1.30 -8.51	25.77 1.49 -5.48	26.23 1.63 -4.84	26.89 1.99 -4.25	28.23 1.93 -3.21	30.57 2.07 -4.84	34.78 2.37 -5.24	42.55 2.51 -6.05	45.79 2.46 -11.82	41.64 2.68 -15.65	42.58 2.38 -8.55	34.92 2.36 -12.78	29.09 1.74 -6.01	24.71 0.95 -5.54	
BRISTLHL_115KV_TB1 79998	8.47 -0.08 -1.35	8.20 -0.11 -1.23	8.16 -0.09 -1.06	8.01 -0.09 -0.89	8.10 -0.08 -0.97	9.13 -0.07 -1.16	10.78 -0.09 -1.62	13.27 -0.19 -1.59	15.57 -0.25 -0.95	15.64 -0.29 -0.58	18.76 -0.32 -0.28	19.34 -0.31 -0.19	20.13 -0.31 -0.08	21.43 -0.30 -0.05	21.29 -0.30 -0.13	22.97 -0.30 -0.01	26.03 -0.34 -0.02	28.07 -0.42 -0.28	27.88 -0.44 -0.65	29.93 -0.49 0.00	27.03 -0.38 0.00	26.60 -0.37 -0.43	21.79 -0.20 -0.18	12.72 -0.02 -1.10
BROOKHAVEN__DRP 24191	22.84 0.48 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.41 0.53 -9.68	20.24 0.58 -11.62	25.88 0.61 -16.02	28.30 0.74 -15.70	25.23 0.98 -9.38	24.98 1.12 -8.51	25.47 1.18 -5.48	25.63 1.32 -4.84	25.92 1.32 -4.25	26.56 1.67 -3.21	27.93 1.63 -4.84	30.25 1.74 -5.24	34.46 2.06 -6.05	42.19 2.14 -11.82	45.43 2.10 -15.65	41.24 2.28 -8.55	42.17 1.97 -12.78	34.55 1.99 -6.01	28.78 1.44 -5.54	24.54 0.78 -12.12
BROOKLYN_NAVY_YARD 23515	20.93 0.45 -13.27	19.66 0.44 -12.15	18.06 0.44 -10.42	16.45 0.44 -8.82	17.24 0.43 -9.60	19.96 0.48 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.69	25.29 1.04 -9.38	22.37 1.14 -5.89	23.00 1.33 -2.86	22.79 1.44 -1.89	22.68 1.47 -0.86	23.88 1.67 -0.53	24.44 1.63 -1.36	25.13 1.75 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.21 1.97 -6.56	36.71 2.07 -4.23	35.93 1.84 -6.69	32.74 1.83 -4.36	25.09 1.46 -1.83	23.56 0.77 -11.15
BROOKLYN__ARMY_DRP 323595	21.00 0.51 -13.28	19.72 0.50 -12.16	18.11 0.49 -10.43	16.51 0.49 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.13 1.47 -2.86	22.92 1.58 -1.89	22.85 1.63 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.45 2.26 -5.98	37.30 2.21 -7.40	36.99 2.34 -4.23	36.18 2.08 -6.69	33.00 2.10 -4.36	25.20 1.57 -1.83	23.67 0.87 -11.16



BROOKVLE_69_KV_TB1 55790	22.90 0.55 -15.15	20.45 0.54 -12.84	18.16 0.54 -10.42	18.84 0.54 -11.10	17.43 0.54 -9.68	20.27 0.60 -11.62	25.97 0.70 -16.02	28.46 0.89 -15.70	25.46 1.20 -9.38	25.15 1.29 -8.51	25.82 1.54 -5.48	25.96 1.65 -4.84	26.29 1.69 -4.25	26.84 1.95 -3.21	28.23 1.93 -4.84	30.60 2.09 -5.24	34.62 2.21 -6.05	42.41 2.37 -11.82	45.63 2.30 -15.65	41.43 2.46 -8.55	42.41 2.22 -12.78	34.79 2.23 -6.01	29.09 1.74 -5.54	24.69 0.93 -12.12
BROOME_2_LFGE 323671	11.83 0.14 -4.48	11.28 0.11 -4.10	10.84 0.12 -3.52	10.31 0.13 -2.98	10.59 0.14 -3.24	12.07 0.16 -3.86	14.84 0.18 -5.41	17.28 0.11 -5.30	18.16 0.12 -3.17	17.38 0.12 -1.91	19.92 0.19 -0.93	20.27 0.19 -0.61	20.88 0.25 -0.28	22.20 0.35 -0.17	22.28 0.39 -0.44	23.81 0.51 -0.04	26.91 0.50 -0.05	29.63 0.51 -0.90	30.24 0.44 -2.12	32.36 0.61 -1.33	30.10 0.58 -2.11	28.46 0.50 -1.41	22.87 0.48 -0.59	15.57 0.33 -3.61
BROOME__LFGE 323600	11.83 0.14 -4.48	11.28 0.11 -4.10	10.84 0.12 -3.52	10.31 0.13 -2.98	10.59 0.14 -3.24	12.07 0.16 -3.86	14.84 0.18 -5.41	17.28 0.11 -5.30	18.16 0.12 -3.17	17.38 0.12 -1.91	19.92 0.19 -0.93	20.27 0.19 -0.61	20.88 0.25 -0.28	22.20 0.35 -0.17	22.28 0.39 -0.44	23.81 0.51 -0.04	26.91 0.50 -0.05	29.63 0.51 -0.90	30.24 0.44 -2.12	32.36 0.61 -1.33	30.10 0.58 -2.11	28.46 0.50 -1.41	22.87 0.48 -0.59	15.57 0.33 -3.61
BROWNFLS_115KV_TB_3_5 80003	7.59 -0.06 -0.45	7.43 -0.06 -0.41	7.49 -0.06 -0.35	7.45 -0.05 -0.30	7.49 -0.04 -0.32	8.42 -0.02 -0.39	9.81 0.02 -0.54	12.42 0.02 -0.53	15.10 -0.09 -0.32	15.42 -0.12 -0.19	18.74 -0.15 -0.09	19.33 -0.19 -0.06	20.16 -0.22 -0.03	21.31 -0.39 -0.02	20.96 -0.54 -0.04	22.69 -0.58 0.00	25.86 -0.50 -0.01	27.89 -0.42 -0.09	27.56 -0.33 -0.22	30.14 -0.27 0.00	27.22 -0.19 0.00	26.50 -0.19 -0.14	21.73 -0.13 -0.06	11.94 -0.07 -0.37
BROWNSV1_27_KV_LOAD 356125	20.99 0.50 -13.27	19.72 0.50 -12.15	18.11 0.50 -10.42	16.51 0.50 -8.82	17.31 0.50 -9.60	20.03 0.55 -11.43	25.91 0.65 -16.02	28.41 0.84 -15.69	25.41 1.16 -9.38	22.47 1.23 -5.89	23.17 1.50 -2.86	22.94 1.60 -1.89	22.86 1.65 -0.86	24.05 1.84 -0.53	24.61 1.80 -1.36	25.32 1.93 -0.12	28.63 2.11 -0.16	33.27 2.26 -2.79	36.43 2.19 -6.56	36.99 2.34 -4.23	36.18 2.08 -6.69	33.00 2.10 -4.36	25.20 1.57 -1.83	23.65 0.86 -11.15
BURROWS__LYONSDAL 23803	7.88 0.10 -0.57	7.67 0.08 -0.52	7.72 0.08 -0.45	7.68 0.10 -0.38	7.73 0.12 -0.41	8.71 0.17 -0.49	10.16 0.22 -0.69	12.78 0.24 -0.67	15.47 0.19 -0.40	15.75 0.15 -0.25	19.16 0.24 -0.12	19.79 0.25 -0.08	20.65 0.26 -0.04	21.92 0.22 -0.02	21.68 0.17 -0.06	23.46 0.19 -0.01	26.73 0.37 -0.01	28.85 0.51 -0.12	28.51 0.55 -0.27	31.14 0.73 0.00	28.04 0.63 0.00	27.23 0.50 -0.18	22.40 0.52 -0.08	12.40 0.29 -0.46
CAITHNESS_CC_1 323624	22.84 0.48 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.41 0.53 -9.68	20.24 0.58 -11.62	25.89 0.62 -16.02	28.32 0.75 -15.70	25.26 1.01 -9.38	24.98 1.12 -8.51	25.49 1.20 -5.48	25.64 1.34 -4.84	25.94 1.34 -4.25	26.58 1.69 -3.21	27.95 1.65 -4.84	30.27 1.77 -5.24	34.47 2.06 -6.05	42.22 2.17 -11.82	45.43 2.10 -15.65	41.27 2.31 -8.55	42.19 2.00 -12.78	34.55 1.99 -6.01	28.85 1.50 -5.54	24.56 0.80 -12.12
CALPINE BETH_PAGE_GT4 24209	22.92 0.57 -15.15	20.47 0.56 -12.84	18.18 0.56 -10.42	18.87 0.57 -11.10	17.46 0.57 -9.68	20.30 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.48 1.23 -9.38	25.18 1.32 -8.51	25.82 1.54 -5.48	25.96 1.65 -4.84	26.29 1.69 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.57 2.16 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.40 2.43 -8.55	42.36 2.17 -12.78	34.71 2.15 -6.01	29.09 1.74 -5.54	24.72 0.97 -12.12
CALPINE_BETH_PAGE_GT_4 323586	22.92 0.57 -15.15	20.47 0.56 -12.84	18.18 0.56 -10.42	18.87 0.57 -11.10	17.46 0.57 -9.68	20.30 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.48 1.23 -9.38	25.18 1.32 -8.51	25.80 1.52 -5.48	25.96 1.65 -4.84	26.27 1.67 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.57 2.16 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.39 2.43 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.13 1.79 -5.54	24.72 0.97 -12.12
CALPINE_BP_GT1 23823	22.92 0.57 -15.15	20.47 0.56 -12.84	18.18 0.56 -10.42	18.87 0.57 -11.10	17.46 0.57 -9.68	20.30 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.48 1.23 -9.38	25.18 1.32 -8.51	25.80 1.52 -5.48	25.96 1.65 -4.84	26.27 1.67 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.57 2.16 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.39 2.43 -8.55	42.36 2.16 -12.78	34.71 2.15 -6.01	29.13 1.79 -5.54	24.72 0.97 -12.12
CALSPAN__DRP 24200	9.85 0.12 -2.53	9.43 0.04 -2.31	9.27 0.09 -1.98	8.99 0.11 -1.68	9.19 0.15 -1.83	10.34 0.11 -2.18	12.34 0.04 -3.05	14.59 -0.27 -2.99	16.27 -0.39 -1.79	16.01 -0.43 -1.09	18.65 -0.68 -0.53	19.15 -0.66 -0.35	19.86 -0.65 -0.16	21.43 -0.35 -0.10	21.47 -0.24 -0.25	23.15 -0.14 -0.02	25.94 -0.45 -0.03	28.09 -0.65 -0.51	28.17 -0.72 -1.21	30.70 -0.43 -0.71	28.25 -0.27 -1.12	27.00 -0.35 -0.80	22.20 0.07 -0.34	13.89 0.20 -2.05
CALVERTON__SOLAR 323806	22.85 0.49 -15.15	20.43 0.52 -12.84	18.14 0.52 -10.42	18.82 0.53 -11.10	17.43 0.54 -9.68	20.25 0.59 -11.62	25.89 0.62 -16.02	28.32 0.75 -15.70	25.25 1.00 -9.38	24.98 1.12 -8.51	25.45 1.17 -5.48	25.63 1.32 -4.84	25.90 1.30 -4.25	26.56 1.67 -3.21	27.95 1.65 -4.84	30.27 1.77 -5.24	34.49 2.08 -6.05	42.25 2.20 -11.82	45.46 2.13 -15.65	41.30 2.34 -8.55	42.22 2.03 -12.78	34.57 2.02 -6.01	28.85 1.50 -5.54	24.55 0.79 -12.12
CANDIGU_WT_PWR 323617	10.66 0.12 -3.33	10.18 0.06 -3.05	9.91 0.09 -2.61	9.52 0.11 -2.21	9.75 0.13 -2.41	11.04 0.12 -2.87	13.35 0.08 -4.02	15.69 -0.12 -3.94	17.04 -0.18 -2.34	16.58 -0.20 -1.43	19.25 -0.24 -0.69	19.65 -0.27 -0.46	20.40 -0.16 -0.21	21.79 -0.02 -0.13	21.85 0.06 -0.33	23.53 0.23 -0.03	26.71 0.32 -0.04	29.15 0.25 -0.68	29.44 0.17 -1.59	31.84 0.46 -0.97	29.43 0.49 -1.53	27.93 0.34 -1.04	22.65 0.41 -0.44	14.66 0.35 -2.67
CARR STREET_E_SYR 24060	8.63 -0.04 -1.46	8.34 -0.06 -1.34	8.30 -0.05 -1.15	8.13 -0.04 -0.97	8.23 -0.04 -1.06	9.28 -0.02 -1.26	10.98 -0.04 -1.76	13.48 -0.12 -1.73	15.74 -0.16 -1.03	15.80 -0.18 -0.63	18.94 -0.17 -0.31	19.49 -0.18 -0.20	20.30 -0.14 -0.09	21.59 -0.15 -0.06	21.47 -0.13 -0.15	23.16 -0.12 -0.01	26.24 -0.13 -0.02	28.32 -0.20 -0.30	28.13 -0.25 -0.70	30.53 -0.24 -0.36	27.79 -0.19 -0.57	26.83 -0.18 -0.47	21.91 -0.09 -0.20	12.87 0.04 -1.19
CARTHAGE__PAPER 23857	8.01 0.03 -0.78	7.80 0.01 -0.71	7.82 0.01 -0.61	7.75 0.04 -0.52	7.83 0.06 -0.56	8.84 0.12 -0.67	10.37 0.18 -0.94	12.95 0.17 -0.92	15.45 0.03 -0.55	15.64 -0.05 -0.34	18.93 -0.04 -0.16	19.51 -0.06 -0.11	20.32 -0.08 -0.05	21.58 -0.13 -0.03	21.36 -0.17 -0.08	23.08 -0.19 -0.01	26.39 0.03 -0.01	28.63 0.25 -0.16	28.39 0.33 -0.37	30.99 0.58 0.00	27.93 0.52 0.00	27.19 0.40 -0.25	22.28 0.37 -0.10	12.49 0.21 -0.64



CASSADAGA_WT_PWR 323784	10.11 0.23 -2.68	9.67 0.15 -2.45	9.49 0.19 -2.10	9.20 0.22 -1.78	9.42 0.28 -1.94	10.63 0.27 -2.31	12.73 0.25 -3.23	15.03 0.00 -3.17	16.79 0.03 -1.89	16.55 0.05 -1.15	19.38 0.02 -0.56	19.83 0.00 -0.37	20.66 0.14 -0.17	22.17 0.39 -0.10	22.23 0.51 -0.27	23.98 0.70 -0.02	26.86 0.47 -0.03	29.16 0.39 -0.55	29.27 0.31 -1.28	31.90 0.73 -0.76	29.35 0.74 -1.20	27.80 0.40 -0.85	22.68 0.52 -0.36	14.14 0.31 -2.18
CE_DUNWOOD___DRP 24194	20.87 0.41 -13.25	19.60 0.40 -12.12	18.00 0.40 -10.40	16.40 0.40 -8.80	17.19 0.40 -9.58	19.91 0.45 -11.41	25.76 0.53 -15.98	28.21 0.68 -15.66	25.17 0.94 -9.36	22.23 1.00 -5.87	22.88 1.22 -2.86	22.63 1.28 -1.88	22.55 1.34 -0.86	23.72 1.52 -0.53	24.29 1.48 -1.36	24.99 1.61 -0.12	28.26 1.74 -0.16	32.87 1.86 -2.79	36.05 1.83 -6.55	36.58 1.95 -4.22	35.81 1.73 -6.68	32.62 1.73 -4.35	24.94 1.31 -1.83	23.47 0.70 -11.13
CE_MILLWOOD___DRP 24193	20.80 0.40 -13.20	19.54 0.39 -12.08	17.94 0.39 -10.36	16.36 0.40 -8.76	17.14 0.39 -9.55	19.86 0.44 -11.37	25.68 0.51 -15.92	28.13 0.65 -15.60	25.09 0.89 -9.32	22.16 0.95 -5.85	22.83 1.18 -2.85	22.58 1.25 -1.87	22.49 1.28 -0.85	23.66 1.45 -0.52	24.24 1.44 -1.35	24.94 1.56 -0.12	28.20 1.69 -0.16	32.80 1.81 -2.78	35.97 1.77 -6.52	36.51 1.89 -4.21	35.73 1.67 -6.65	32.55 1.67 -4.33	24.91 1.29 -1.82	23.40 0.68 -11.08
CE_NYC2_DRP 24202	20.99 0.50 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.51 0.49 -8.82	17.31 0.49 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.89 1.54 -1.89	22.81 1.59 -0.86	27.32 1.78 -3.86	25.82 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.19 2.10 -7.40	36.87 2.22 -4.23	36.07 1.97 -6.69	32.90 1.99 -4.36	25.14 1.50 -1.83	23.64 0.84 -11.16
CE_NYC_DRP 24195	20.94 0.46 -13.27	19.67 0.45 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.36 1.12 -5.89	23.04 1.37 -2.86	22.81 1.46 -1.89	22.72 1.51 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.13 1.74 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.21 1.97 -6.56	36.74 2.10 -4.23	35.96 1.86 -6.69	32.79 1.88 -4.36	25.05 1.42 -1.83	23.57 0.78 -11.15
CHAFFEE___LFGE 323603	9.92 0.11 -2.60	9.49 0.04 -2.38	9.32 0.08 -2.04	9.03 0.10 -1.73	9.23 0.14 -1.88	10.39 0.10 -2.24	12.44 0.05 -3.14	14.69 -0.26 -3.08	16.34 -0.37 -1.84	16.06 -0.41 -1.12	18.78 -0.56 -0.55	19.22 -0.60 -0.36	20.03 -0.49 -0.16	21.48 -0.30 -0.10	21.54 -0.17 -0.26	23.26 -0.02 -0.02	26.02 -0.37 -0.03	28.19 -0.56 -0.53	28.29 -0.64 -1.25	30.87 -0.27 -0.73	28.43 -0.14 -1.16	27.08 -0.29 -0.83	22.19 0.04 -0.35	13.95 0.19 -2.12
CHATEAUG_35_KV_LOAD 355732	7.22 0.01 0.00	7.12 0.05 0.00	7.24 0.04 0.00	7.24 0.04 0.00	7.25 0.04 0.00	8.10 0.05 0.00	9.34 0.08 0.00	12.06 0.19 0.00	15.02 0.15 0.00	15.57 0.21 0.00	18.97 0.17 0.00	19.54 0.08 0.00	20.46 0.10 0.00	21.70 0.02 0.00	21.43 -0.02 0.00	23.24 -0.02 0.00	26.38 0.03 0.00	28.39 0.17 0.00	27.98 0.30 0.00	30.72 0.30 0.00	27.63 0.22 0.00	26.44 -0.11 0.00	21.32 -0.48 0.00	11.27 -0.37 0.00
CHATEAUG_WT_PWR 323614	7.23 0.02 0.00	7.13 0.06 0.00	7.24 0.04 0.00	7.25 0.05 0.00	7.26 0.05 0.00	8.10 0.06 0.00	9.34 0.09 0.00	12.07 0.20 0.00	15.05 0.18 0.00	15.60 0.24 0.00	19.03 0.23 0.00	19.60 0.14 0.00	20.48 0.12 0.00	21.74 0.07 0.00	21.48 0.02 0.00	23.26 0.00 0.00	26.43 0.08 0.00	28.42 0.20 0.00	27.98 0.31 0.00	30.72 0.30 0.00	27.66 0.25 0.00	26.47 -0.08 0.00	21.34 -0.46 0.00	11.29 -0.35 0.00
CHAT_HIGH_FALL_HYD 323578	7.22 0.01 0.00	7.12 0.05 0.00	7.24 0.04 0.00	7.24 0.04 0.00	7.25 0.04 0.00	8.10 0.05 0.00	9.34 0.08 0.00	12.06 0.19 0.00	15.02 0.15 0.00	15.57 0.21 0.00	18.97 0.17 0.00	19.54 0.08 0.00	20.44 0.08 0.00	21.70 0.02 0.00	21.43 -0.02 0.00	23.24 -0.02 0.00	26.38 0.03 0.00	28.39 0.17 0.00	27.98 0.31 0.00	30.72 0.30 0.00	27.63 0.22 0.00	26.44 -0.11 0.00	21.32 -0.48 0.00	11.28 -0.36 0.00
CHAUTAUQUA___LFGE 323629	10.04 0.20 -2.63	9.61 0.13 -2.41	9.44 0.17 -2.07	9.14 0.19 -1.75	9.36 0.25 -1.91	10.54 0.22 -2.27	12.60 0.18 -3.18	14.89 -0.10 -3.11	16.60 -0.13 -1.86	16.35 -0.14 -1.13	19.13 -0.22 -0.55	19.57 -0.25 -0.36	20.40 -0.12 -0.16	21.89 0.11 -0.10	21.95 0.24 -0.26	23.64 0.35 -0.02	26.52 0.13 -0.03	28.76 0.00 -0.54	28.86 -0.08 -1.26	31.40 0.24 -0.74	28.91 0.33 -1.17	27.54 0.16 -0.84	22.52 0.37 -0.35	14.10 0.31 -2.14
CHERRYST_13_KV_LD 356241	20.96 0.48 -13.27	19.69 0.47 -12.15	18.09 0.48 -10.42	16.49 0.48 -8.82	17.28 0.47 -9.60	20.00 0.52 -11.43	25.88 0.61 -16.02	28.35 0.78 -15.69	25.33 1.09 -9.38	22.41 1.17 -5.89	23.09 1.43 -2.86	22.87 1.52 -1.89	22.78 1.57 -0.86	23.96 1.76 -0.53	24.53 1.72 -1.36	25.20 1.81 -0.12	28.49 1.98 -0.16	33.10 2.09 -2.79	36.29 2.05 -6.56	36.80 2.16 -4.23	36.05 1.95 -6.69	32.84 1.94 -4.36	25.09 1.46 -1.83	23.59 0.80 -11.15
CHESTROR_138KV_BK263 355645	19.82 0.33 -12.29	18.64 0.33 -11.24	17.16 0.32 -9.64	15.68 0.32 -8.16	16.42 0.32 -8.89	18.99 0.36 -10.58	24.49 0.42 -14.82	26.92 0.52 -14.53	24.29 0.74 -8.68	21.58 0.78 -5.45	22.41 0.96 -2.65	22.22 1.01 -1.75	22.20 1.06 -0.79	23.38 1.21 -0.49	23.91 1.20 -1.26	24.68 1.30 -0.11	27.93 1.42 -0.15	32.36 1.55 -2.59	35.25 1.49 -6.07	35.89 1.55 -3.93	35.02 1.40 -6.21	31.96 1.38 -4.03	24.56 1.07 -1.69	22.52 0.56 -10.32
CH_MIDHUDSON___DRP 24192	21.05 0.37 -13.47	19.77 0.37 -12.33	18.14 0.37 -10.57	16.51 0.37 -8.94	17.32 0.37 -9.74	20.05 0.40 -11.60	25.96 0.46 -16.25	28.37 0.58 -15.92	25.20 0.82 -9.51	22.18 0.86 -5.97	22.76 1.05 -2.91	22.49 1.11 -1.91	22.38 1.16 -0.87	23.52 1.30 -0.53	24.12 1.29 -1.38	24.81 1.42 -0.12	28.05 1.53 -0.17	32.72 1.67 -2.83	35.94 1.61 -6.66	36.42 1.67 -4.34	35.80 1.53 -6.86	32.51 1.54 -4.42	24.86 1.20 -1.86	23.57 0.62 -11.31
CH_MISC_IPPS 23765	20.84 0.41 -13.22	19.57 0.40 -12.10	17.96 0.39 -10.37	16.37 0.40 -8.78	17.17 0.40 -9.56	19.87 0.43 -11.39	25.70 0.50 -15.95	28.12 0.62 -15.63	25.10 0.89 -9.34	22.15 0.94 -5.86	22.78 1.13 -2.85	22.55 1.21 -1.88	22.45 1.24 -0.85	23.61 1.41 -0.52	24.20 1.39 -1.35	24.92 1.54 -0.12	28.18 1.66 -0.16	32.84 1.83 -2.78	35.99 1.77 -6.53	36.50 1.82 -4.26	35.81 1.67 -6.73	32.51 1.62 -4.34	24.93 1.31 -1.82	23.41 0.66 -11.10
CH_RES_BVR_FALLS 23983	7.10 -0.11 0.00	6.97 -0.10 0.00	7.10 -0.10 0.00	7.09 -0.11 0.00	7.08 -0.12 0.00	7.90 -0.14 0.00	9.09 -0.16 0.00	11.69 -0.18 0.00	14.65 -0.22 0.00	15.15 -0.20 0.00	18.54 -0.26 0.00	19.19 -0.27 0.00	20.05 -0.30 0.00	21.31 -0.37 0.00	21.09 -0.36 0.00	22.85 -0.42 0.00	25.91 -0.45 0.00	27.74 -0.48 0.00	27.21 -0.47 0.00	29.87 -0.55 0.00	26.81 -0.60 0.00	25.86 -0.69 0.00	21.08 -0.72 0.00	11.21 -0.43 0.00



CH_RES_NIAGARA 23895	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.65 -0.09 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.79 -0.27 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.99 -1.30 -0.49	18.36 -1.42 -0.32	19.20 -1.30 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.03 -1.26 -0.02	24.85 -1.53 -0.03	26.83 -1.86 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.44 -0.68 -0.31	13.41 -0.12 -1.88
CH_RES_SYRACUSE 23985	8.80 -0.01 -1.60	8.50 -0.04 -1.46	8.43 -0.02 -1.25	8.25 -0.01 -1.06	8.35 -0.01 -1.15	9.43 0.01 -1.38	11.18 0.00 -1.93	13.69 -0.07 -1.89	15.90 -0.10 -1.13	15.92 -0.12 -0.69	19.04 -0.09 -0.33	19.59 -0.10 -0.22	20.39 -0.06 -0.10	21.68 -0.06 -0.06	21.57 -0.04 -0.16	23.28 0.00 -0.01	26.35 -0.03 -0.02	28.49 -0.06 -0.33	28.34 -0.11 -0.77	30.70 -0.12 -0.40	27.99 -0.05 -0.64	26.98 -0.08 -0.51	22.02 0.00 -0.21	13.03 0.08 -1.30
CLINTON_WT_PWR 323605	7.23 0.02 0.00	7.13 0.06 0.00	7.24 0.04 0.00	7.25 0.05 0.00	7.26 0.05 0.00	8.10 0.06 0.00	9.34 0.09 0.00	12.07 0.20 0.00	15.05 0.18 0.00	15.60 0.24 0.00	19.03 0.23 0.00	19.60 0.14 0.00	20.48 0.12 0.00	21.74 0.07 0.00	21.48 0.02 0.00	23.26 0.00 0.00	26.43 0.08 0.00	28.42 0.20 0.00	27.98 0.31 0.00	30.72 0.30 0.00	27.66 0.25 0.00	26.47 -0.08 0.00	21.34 -0.46 0.00	11.29 -0.35 0.00
CLINTON___LFGE 323618	7.31 0.10 0.00	7.21 0.14 0.00	7.32 0.12 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.47 0.22 0.00	12.25 0.38 0.00	15.24 0.37 0.00	15.81 0.46 0.00	19.27 0.47 0.00	19.83 0.37 0.00	20.72 0.37 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.75 0.40 0.00	28.81 0.59 0.00	28.43 0.75 0.00	31.20 0.79 0.00	28.07 0.66 0.00	26.81 0.27 0.00	21.56 -0.24 0.00	11.42 -0.22 0.00
COBBLENY_34_KV_TB1 80064	9.92 0.11 -2.60	9.49 0.04 -2.38	9.32 0.08 -2.04	9.02 0.09 -1.73	9.24 0.14 -1.88	10.40 0.10 -2.25	12.43 0.04 -3.14	14.69 -0.26 -3.08	16.34 -0.37 -1.84	16.06 -0.41 -1.12	18.71 -0.64 -0.55	19.22 -0.60 -0.36	19.91 -0.61 -0.16	21.48 -0.30 -0.10	21.54 -0.17 -0.26	23.26 -0.02 -0.02	26.02 -0.37 -0.03	28.22 -0.54 -0.53	28.29 -0.64 -1.25	30.87 -0.27 -0.73	28.43 -0.14 -1.16	27.08 -0.29 -0.83	22.22 0.07 -0.35	13.96 0.20 -2.12
COFFEEN___115KV_TB3 355620	8.20 0.11 -0.89	7.96 0.08 -0.81	7.97 0.08 -0.69	7.90 0.12 -0.59	7.98 0.14 -0.64	9.03 0.23 -0.76	10.62 0.30 -1.07	13.19 0.27 -1.05	15.63 0.13 -0.63	15.77 0.03 -0.38	19.08 0.09 -0.19	19.68 0.10 -0.12	20.49 0.08 -0.06	21.76 0.04 -0.03	21.56 0.02 -0.09	23.32 0.05 -0.01	26.71 0.34 -0.01	29.05 0.65 -0.18	28.80 0.69 -0.43	31.48 1.06 0.00	28.34 0.93 0.00	27.57 0.74 -0.28	22.64 0.72 -0.12	12.76 0.40 -0.72
COLDSPRG_115KV_BK1 355956	10.23 0.28 -2.75	9.79 0.21 -2.51	9.61 0.25 -2.16	9.30 0.27 -1.82	9.53 0.33 -1.99	10.76 0.35 -2.37	12.90 0.33 -3.31	15.24 0.12 -3.25	16.95 0.13 -1.94	16.67 0.14 -1.18	19.45 0.08 -0.58	19.98 0.14 -0.38	20.69 0.16 -0.17	22.28 0.50 -0.11	22.35 0.62 -0.27	24.27 0.98 -0.02	26.97 0.58 -0.03	29.29 0.51 -0.56	29.41 0.42 -1.32	32.23 1.03 -0.78	29.66 1.01 -1.24	27.90 0.48 -0.88	22.78 0.61 -0.37	14.29 0.41 -2.24
COLONIE_LFGE___ 323577	24.23 0.32 -16.71	22.66 0.30 -15.29	20.62 0.31 -13.11	18.61 0.31 -11.10	19.61 0.32 -12.09	22.79 0.35 -14.39	29.82 0.41 -20.16	32.11 0.49 -19.76	27.29 0.62 -11.80	23.37 0.61 -7.40	23.12 0.71 -3.60	22.59 0.76 -2.37	22.20 0.77 -1.08	23.27 0.93 -0.66	24.11 0.94 -1.71	24.44 1.02 -0.15	27.72 1.16 -0.20	32.98 1.24 -3.51	37.12 1.19 -8.26	42.91 1.37 -11.13	46.27 1.26 -17.60	33.31 1.27 -5.49	25.22 1.11 -2.30	26.20 0.52 -14.03
COOPERNY_115KV_TB1 80082	17.47 0.25 -10.02	16.48 0.24 -9.17	15.30 0.24 -7.86	14.10 0.24 -6.66	14.70 0.25 -7.25	16.95 0.27 -8.63	21.67 0.32 -12.09	24.11 0.39 -11.85	22.49 0.54 -7.08	20.37 0.57 -4.45	21.68 0.71 -2.16	21.65 0.76 -1.42	21.77 0.77 -0.65	22.99 0.91 -0.40	23.36 0.88 -1.03	24.31 0.95 -0.09	27.53 1.05 -0.12	31.46 1.13 -2.11	33.72 1.08 -4.96	34.81 1.16 -3.24	33.57 1.04 -5.12	30.88 1.04 -3.29	24.01 0.83 -1.38	20.51 0.44 -8.42
COPENHAGEN_WT_PWR 323753	8.17 0.05 -0.91	7.94 0.03 -0.84	7.95 0.03 -0.72	7.86 0.06 -0.61	7.95 0.08 -0.66	8.98 0.14 -0.79	10.56 0.20 -1.10	13.12 0.17 -1.08	15.56 0.04 -0.65	15.70 -0.05 -0.39	18.99 0.00 -0.19	19.57 -0.02 -0.13	20.39 -0.02 -0.06	21.65 -0.06 -0.04	21.46 -0.09 -0.09	23.20 -0.07 -0.01	26.50 0.13 -0.01	28.75 0.34 -0.19	28.53 0.42 -0.44	31.08 0.67 0.00	27.99 0.58 0.00	27.29 0.45 -0.29	22.38 0.46 -0.12	12.67 0.28 -0.75
CORNELL_____ 23752	10.66 0.20 -3.25	10.21 0.16 -2.98	9.94 0.19 -2.55	9.55 0.19 -2.16	9.76 0.20 -2.35	11.11 0.26 -2.80	13.47 0.30 -3.93	15.99 0.27 -3.85	17.44 0.27 -2.30	16.97 0.23 -1.38	19.79 0.32 -0.67	20.30 0.39 -0.44	20.96 0.41 -0.20	22.30 0.50 -0.12	22.31 0.54 -0.32	23.94 0.65 -0.03	27.11 0.71 -0.04	29.67 0.79 -0.66	30.00 0.78 -1.54	32.33 0.97 -0.94	29.80 0.90 -1.48	28.34 0.77 -1.02	22.93 0.70 -0.43	14.71 0.44 -2.62
CORONA AV_69_KV_TB1 355595	22.93 0.58 -15.15	20.48 0.57 -12.84	18.18 0.56 -10.42	18.87 0.57 -11.10	17.46 0.57 -9.68	20.30 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.48 1.23 -9.38	25.18 1.32 -8.51	25.84 1.56 -5.48	25.98 1.67 -4.84	26.31 1.71 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.70 2.29 -6.05	42.44 2.40 -11.82	45.65 2.33 -15.65	41.49 2.52 -8.55	42.47 2.28 -12.78	34.87 2.31 -6.01	29.15 1.81 -5.54	24.74 0.98 -12.12
CORTLAND_115KV_TB3 80093	9.97 0.12 -2.64	9.58 0.09 -2.42	9.38 0.11 -2.07	9.07 0.12 -1.75	9.24 0.12 -1.91	10.48 0.16 -2.27	12.62 0.19 -3.19	15.15 0.15 -3.12	16.87 0.13 -1.87	16.61 0.12 -1.13	19.54 0.19 -0.55	20.04 0.21 -0.36	20.74 0.22 -0.17	22.11 0.33 -0.10	22.06 0.34 -0.26	23.71 0.42 -0.02	26.86 0.47 -0.03	29.27 0.51 -0.54	29.41 0.47 -1.26	31.77 0.61 -0.75	29.17 0.58 -1.18	27.84 0.45 -0.84	22.61 0.46 -0.35	14.09 0.30 -2.15
COXSACKIE___GT 23611	23.13 0.45 -15.48	21.65 0.41 -14.17	19.76 0.41 -12.15	17.88 0.40 -10.28	18.83 0.43 -11.20	21.85 0.47 -13.33	28.47 0.55 -18.67	30.81 0.64 -18.30	26.70 0.89 -10.93	23.00 0.78 -6.86	23.00 0.87 -3.34	22.52 0.86 -2.20	22.23 0.87 -1.00	23.42 1.13 -0.61	24.24 1.20 -1.58	24.85 1.44 -0.14	28.21 1.66 -0.19	33.37 1.89 -3.26	37.24 1.91 -7.65	39.27 2.04 -6.82	40.14 1.95 -10.78	33.43 1.81 -5.08	25.35 1.42 -2.13	25.28 0.64 -13.00
CPV_VALLEY___CC1 323721	18.97 0.28 -11.48	17.86 0.28 -10.51	16.48 0.27 -9.01	15.10 0.27 -7.63	15.79 0.27 -8.31	18.24 0.31 -9.89	23.46 0.35 -13.85	25.88 0.44 -13.58	23.61 0.62 -8.11	21.11 0.66 -5.09	22.09 0.81 -2.48	21.97 0.88 -1.63	21.99 0.89 -0.74	23.18 1.04 -0.46	23.66 1.03 -1.18	24.48 1.12 -0.10	27.68 1.19 -0.14	31.94 1.30 -2.42	34.60 1.25 -5.68	35.40 1.31 -3.68	34.40 1.18 -5.81	31.49 1.17 -3.77	24.32 0.94 -1.58	21.78 0.49 -9.65



CPV_VALLEY___CC2 323722	18.97 0.28 -11.48	17.86 0.28 -10.51	16.48 0.27 -9.01	15.10 0.27 -7.63	15.79 0.27 -8.31	18.24 0.31 -9.89	23.46 0.35 -13.85	25.88 0.44 -13.58	23.61 0.62 -8.11	21.11 0.66 -5.09	22.09 0.81 -2.48	21.97 0.88 -1.63	21.99 0.89 -0.74	23.18 1.04 -0.46	23.66 1.03 -1.18	24.48 1.12 -0.10	27.68 1.19 -0.14	31.94 1.30 -2.42	34.60 1.25 -5.68	35.40 1.31 -3.68	34.40 1.18 -5.81	31.49 1.17 -3.77	24.32 0.94 -1.58	21.78 0.49 -9.65
CRESCENT___HYD 24018	24.23 0.32 -16.71	22.66 0.30 -15.29	20.62 0.31 -13.11	18.61 0.31 -11.10	19.61 0.32 -12.09	22.79 0.35 -14.39	29.82 0.41 -20.16	32.11 0.49 -19.76	27.29 0.62 -11.80	23.37 0.61 -7.40	23.12 0.71 -3.60	22.59 0.76 -2.37	22.20 0.77 -1.08	23.27 0.93 -0.66	24.11 0.94 -1.71	24.44 1.02 -0.15	27.72 1.16 -0.20	32.98 1.24 -3.51	37.12 1.19 -8.26	42.91 1.37 -11.13	46.27 1.26 -17.60	33.31 1.27 -5.49	25.22 1.11 -2.30	26.20 0.52 -14.03
CRICKET___VALLEY_CC1 323756	21.53 0.30 -14.03	20.21 0.30 -12.84	18.51 0.30 -11.01	16.83 0.31 -9.32	17.67 0.31 -10.15	20.47 0.34 -12.09	26.55 0.37 -16.93	28.91 0.45 -16.59	25.41 0.62 -9.91	22.25 0.67 -6.22	22.65 0.83 -3.03	22.33 0.88 -1.99	22.18 0.92 -0.91	23.30 1.06 -0.56	23.92 1.03 -1.44	24.48 1.09 -0.13	27.71 1.19 -0.17	32.47 1.30 -2.95	35.83 1.22 -6.93	36.32 1.34 -4.57	35.84 1.20 -7.23	32.40 1.25 -4.61	24.80 1.07 -1.93	23.98 0.56 -11.78
CRICKET___VALLEY_CC2 323757	21.53 0.30 -14.03	20.21 0.30 -12.84	18.51 0.30 -11.01	16.83 0.31 -9.32	17.67 0.31 -10.15	20.47 0.34 -12.09	26.55 0.37 -16.93	28.91 0.45 -16.59	25.41 0.62 -9.91	22.25 0.67 -6.22	22.65 0.83 -3.03	22.33 0.88 -1.99	22.18 0.92 -0.91	23.30 1.06 -0.56	23.92 1.03 -1.44	24.48 1.09 -0.13	27.71 1.19 -0.17	32.47 1.30 -2.95	35.83 1.22 -6.93	36.32 1.34 -4.57	35.84 1.20 -7.23	32.40 1.25 -4.61	24.80 1.07 -1.93	23.98 0.56 -11.78
CRICKET___VALLEY_CC3 323758	21.53 0.30 -14.03	20.21 0.30 -12.84	18.51 0.30 -11.01	16.83 0.31 -9.32	17.67 0.31 -10.15	20.47 0.34 -12.09	26.55 0.37 -16.93	28.91 0.45 -16.59	25.41 0.62 -9.91	22.25 0.67 -6.22	22.65 0.83 -3.03	22.33 0.88 -1.99	22.18 0.92 -0.91	23.30 1.06 -0.56	23.92 1.03 -1.44	24.48 1.09 -0.13	27.71 1.19 -0.17	32.47 1.30 -2.95	35.83 1.22 -6.93	36.32 1.34 -4.57	35.84 1.20 -7.23	32.40 1.25 -4.61	24.80 1.07 -1.93	23.98 0.56 -11.78
CRUCIBLE_METL_DRP 24180	8.80 -0.01 -1.60	8.50 -0.04 -1.46	8.43 -0.02 -1.25	8.24 -0.02 -1.06	8.35 -0.01 -1.15	9.43 0.01 -1.38	11.18 0.00 -1.93	13.69 -0.07 -1.89	15.90 -0.10 -1.13	15.92 -0.12 -0.69	19.02 -0.11 -0.33	19.59 -0.10 -0.22	20.37 -0.08 -0.10	21.68 -0.07 -0.06	21.57 -0.04 -0.16	23.28 0.00 -0.01	26.35 -0.03 -0.02	28.49 -0.06 -0.33	28.34 -0.11 -0.77	30.70 -0.12 -0.40	27.99 -0.05 -0.64	26.98 -0.08 -0.51	22.02 0.00 -0.21	13.03 0.08 -1.30
DAHOWA___HYDRO 323763	24.68 0.44 -17.03	23.06 0.40 -15.59	20.99 0.42 -13.37	18.92 0.41 -11.31	19.96 0.43 -12.32	23.22 0.50 -14.67	30.39 0.58 -20.55	32.70 0.69 -20.14	27.77 0.88 -12.03	23.73 0.83 -7.55	23.43 0.96 -3.67	22.89 1.01 -2.42	22.43 0.98 -1.10	23.53 1.17 -0.68	24.38 1.18 -1.74	24.67 1.26 -0.15	27.80 1.24 -0.21	33.16 1.35 -3.58	37.45 1.36 -8.42	44.59 1.58 -12.60	48.81 1.48 -19.92	33.55 1.41 -5.59	25.35 1.20 -2.35	26.47 0.52 -14.31
DANC___LFGE 323619	8.27 -0.01 -1.07	8.02 -0.04 -0.98	8.01 -0.03 -0.84	7.90 -0.01 -0.71	7.99 0.01 -0.78	9.02 0.05 -0.92	10.62 0.07 -1.29	13.15 0.01 -1.27	15.53 -0.10 -0.76	15.65 -0.17 -0.46	18.87 -0.15 -0.23	19.44 -0.18 -0.15	20.26 -0.16 -0.07	21.53 -0.20 -0.04	21.37 -0.19 -0.11	23.09 -0.19 -0.01	26.26 -0.10 -0.01	28.44 0.00 -0.22	28.22 0.03 -0.52	30.60 0.18 0.00	27.58 0.17 0.00	27.00 0.11 -0.34	22.12 0.17 -0.14	12.66 0.14 -0.88
DANSKAMMER___1 23586	20.84 0.41 -13.22	19.57 0.40 -12.10	17.96 0.39 -10.37	16.37 0.40 -8.78	17.17 0.40 -9.56	19.87 0.43 -11.39	25.70 0.50 -15.95	28.12 0.62 -15.63	25.10 0.89 -9.34	22.15 0.94 -5.86	22.78 1.13 -2.85	22.55 1.21 -1.88	22.45 1.24 -0.85	23.61 1.41 -0.52	24.20 1.39 -1.35	24.92 1.54 -0.12	28.18 1.66 -0.16	32.84 1.83 -2.78	35.99 1.77 -6.53	36.50 1.82 -4.26	35.81 1.67 -6.73	32.51 1.62 -4.34	24.93 1.31 -1.82	23.41 0.66 -11.10
DANSKAMMER___2 23589	20.84 0.41 -13.22	19.57 0.40 -12.10	17.96 0.39 -10.37	16.37 0.40 -8.78	17.17 0.40 -9.56	19.87 0.43 -11.39	25.70 0.50 -15.95	28.12 0.62 -15.63	25.10 0.89 -9.34	22.15 0.94 -5.86	22.78 1.13 -2.85	22.55 1.21 -1.88	22.45 1.24 -0.85	23.61 1.41 -0.52	24.20 1.39 -1.35	24.92 1.54 -0.12	28.18 1.66 -0.16	32.84 1.83 -2.78	35.99 1.77 -6.53	36.50 1.82 -4.26	35.81 1.67 -6.73	32.51 1.62 -4.34	24.93 1.31 -1.82	23.41 0.66 -11.10
DANSKAMMER___3 23590	20.84 0.41 -13.22	19.57 0.40 -12.10	17.96 0.39 -10.37	16.37 0.40 -8.78	17.17 0.40 -9.56	19.87 0.43 -11.39	25.70 0.50 -15.95	28.12 0.62 -15.63	25.10 0.89 -9.34	22.15 0.94 -5.86	22.78 1.13 -2.85	22.55 1.21 -1.88	22.45 1.24 -0.85	23.61 1.41 -0.52	24.20 1.39 -1.35	24.92 1.54 -0.12	28.18 1.66 -0.16	32.84 1.83 -2.78	35.99 1.77 -6.53	36.50 1.82 -4.26	35.81 1.67 -6.73	32.51 1.62 -4.34	24.93 1.31 -1.82	23.41 0.66 -11.10
DANSKAMMER___4 23591	20.84 0.41 -13.22	19.57 0.40 -12.10	17.96 0.39 -10.37	16.37 0.40 -8.78	17.17 0.40 -9.56	19.87 0.43 -11.39	25.70 0.50 -15.95	28.12 0.62 -15.63	25.10 0.89 -9.34	22.15 0.94 -5.86	22.78 1.13 -2.85	22.55 1.21 -1.88	22.45 1.24 -0.85	23.61 1.41 -0.52	24.20 1.39 -1.35	24.92 1.54 -0.12	28.18 1.66 -0.16	32.84 1.83 -2.78	35.99 1.77 -6.53	36.50 1.82 -4.26	35.81 1.67 -6.73	32.51 1.62 -4.34	24.93 1.31 -1.82	23.41 0.66 -11.10
DANSKAMMER___DIESEL 23592	20.84 0.41 -13.22	19.57 0.40 -12.10	17.96 0.39 -10.37	16.37 0.40 -8.78	17.17 0.40 -9.56	19.87 0.43 -11.39	25.70 0.50 -15.95	28.12 0.62 -15.63	25.10 0.89 -9.34	22.15 0.94 -5.86	22.80 1.15 -2.85	22.55 1.21 -1.88	22.45 1.24 -0.85	23.61 1.41 -0.52	24.20 1.39 -1.35	24.92 1.54 -0.12	28.18 1.66 -0.16	32.84 1.83 -2.78	35.98 1.77 -6.53	36.50 1.82 -4.26	35.82 1.67 -6.73	32.53 1.65 -4.34	24.91 1.29 -1.82	23.40 0.65 -11.10
DARBY___SOLAR 323810	24.61 0.42 -16.99	23.00 0.38 -15.55	20.93 0.40 -13.33	18.87 0.39 -11.28	19.91 0.41 -12.29	23.15 0.47 -14.63	30.29 0.55 -20.50	32.61 0.65 -20.09	27.71 0.85 -11.99	23.68 0.80 -7.53	23.40 0.94 -3.66	22.85 0.97 -2.41	22.41 0.96 -1.10	23.50 1.15 -0.67	24.35 1.16 -1.74	24.65 1.23 -0.15	27.80 1.24 -0.21	33.15 1.35 -3.57	37.43 1.36 -8.40	44.36 1.55 -12.39	48.46 1.45 -19.60	33.51 1.38 -5.58	25.32 1.18 -2.34	26.43 0.52 -14.27
DASHVILLE___HYD 23610	20.96 0.29 -13.46	19.67 0.28 -12.32	18.04 0.27 -10.56	16.41 0.27 -8.94	17.22 0.27 -9.74	19.94 0.30 -11.59	25.83 0.34 -16.24	28.22 0.44 -15.92	25.06 0.68 -9.51	22.06 0.74 -5.97	22.61 0.90 -2.90	22.35 0.97 -1.91	22.22 1.00 -0.87	23.30 1.08 -0.53	23.88 1.05 -1.38	24.74 1.35 -0.12	27.73 1.21 -0.17	32.44 1.38 -2.83	35.66 1.33 -6.65	36.51 1.28 -4.82	36.24 1.21 -7.63	32.11 1.14 -4.42	24.55 0.89 -1.85	23.41 0.47 -11.31



DEERFIELD_69_KV_DEERFIELD LD 355887	22.95 0.60 -15.15	20.54 0.63 -12.84	18.25 0.63 -10.42	18.93 0.63 -11.10	17.54 0.65 -9.68	20.37 0.71 -11.62	26.03 0.76 -16.02	28.48 0.91 -15.70	25.43 1.17 -9.38	25.18 1.32 -8.51	25.69 1.41 -5.48	25.86 1.56 -4.84	26.15 1.55 -4.25	26.91 2.02 -3.21	28.31 2.02 -4.84	30.71 2.21 -5.24	34.99 2.58 -6.05	42.75 2.71 -11.82	45.93 2.60 -15.65	41.82 2.86 -8.55	42.69 2.49 -12.78	35.05 2.50 -6.01	29.11 1.77 -5.54	24.71 0.95 -12.12
DELAWARE___LFGE 323621	13.00 0.22 -5.57	12.37 0.21 -5.10	11.78 0.21 -4.37	11.12 0.22 -3.70	11.47 0.23 -4.03	13.11 0.27 -4.80	16.29 0.31 -6.72	18.81 0.36 -6.59	19.26 0.43 -3.96	17.80 0.63 -1.82	20.57 0.88 -0.89	21.02 0.97 -0.58	21.64 1.02 -0.26	23.08 1.24 -0.16	23.12 1.24 -0.42	24.72 1.42 -0.04	28.12 1.71 -0.05	31.03 1.95 -0.86	31.62 1.91 -2.03	34.00 2.31 -1.27	31.45 2.03 -2.01	29.64 1.75 -1.35	23.85 1.48 -0.56	15.93 0.85 -3.44
DERFIELD_115KV_TB7 355931	7.23 0.02 0.00	7.09 0.02 0.00	7.22 0.02 0.00	7.22 0.02 0.00	7.23 0.02 0.00	8.08 0.03 0.00	9.29 0.04 0.00	11.89 0.02 0.00	14.90 0.03 0.00	15.38 0.03 0.00	18.84 0.04 0.00	19.52 0.06 0.00	20.41 0.06 0.00	21.77 0.09 0.00	21.54 0.09 0.00	23.36 0.09 0.00	26.46 0.11 0.00	28.33 0.11 0.00	27.79 0.11 0.00	30.54 0.12 0.00	27.52 0.11 0.00	26.65 0.11 0.00	21.91 0.11 0.00	11.70 0.06 0.00
DOGLEVILLE___HYD 23807	7.26 0.06 0.00	7.11 0.04 0.00	7.23 0.03 0.00	7.24 0.04 0.00	7.24 0.03 0.00	8.10 0.06 0.00	9.34 0.08 0.00	11.95 0.08 0.00	14.98 0.10 0.00	15.46 0.11 0.00	18.97 0.17 0.00	19.72 0.25 0.00	20.60 0.25 0.00	21.79 0.11 0.00	21.56 0.11 0.00	23.38 0.12 0.00	26.51 0.16 0.00	28.42 0.20 0.00	27.87 0.20 0.00	30.63 0.21 0.00	27.55 0.14 0.00	26.68 0.13 0.00	22.02 0.22 0.00	11.75 0.10 0.00
DUNKIRK___115KV_TB_200 55889	10.03 0.19 -2.63	9.60 0.12 -2.41	9.43 0.17 -2.06	9.13 0.19 -1.75	9.35 0.24 -1.90	10.53 0.22 -2.27	12.58 0.16 -3.17	14.87 -0.11 -3.11	16.58 -0.15 -1.86	16.32 -0.17 -1.13	19.01 -0.34 -0.55	19.51 -0.31 -0.36	20.23 -0.28 -0.16	21.85 0.07 -0.10	21.89 0.17 -0.26	23.59 0.30 -0.02	26.47 0.08 -0.03	28.67 -0.08 -0.54	28.77 -0.17 -1.26	31.34 0.18 -0.74	28.83 0.25 -1.17	27.49 0.11 -0.84	22.50 0.35 -0.35	14.09 0.31 -2.14
DUNKIRK___1 23563	10.03 0.19 -2.63	9.60 0.12 -2.41	9.43 0.17 -2.06	9.13 0.19 -1.75	9.35 0.24 -1.90	10.53 0.22 -2.27	12.58 0.16 -3.17	14.87 -0.11 -3.11	16.58 -0.15 -1.86	16.32 -0.17 -1.13	19.01 -0.34 -0.55	19.51 -0.31 -0.36	20.23 -0.28 -0.16	21.85 0.07 -0.10	21.89 0.17 -0.26	23.59 0.30 -0.02	26.47 0.08 -0.03	28.67 -0.08 -0.54	28.77 -0.17 -1.26	31.34 0.18 -0.74	28.83 0.25 -1.17	27.49 0.11 -0.84	22.50 0.35 -0.35	14.09 0.31 -2.14
DUNKIRK___2 23564	10.03 0.19 -2.63	9.60 0.12 -2.41	9.43 0.17 -2.06	9.13 0.19 -1.75	9.35 0.24 -1.90	10.53 0.22 -2.27	12.58 0.16 -3.17	14.87 -0.11 -3.11	16.58 -0.15 -1.86	16.32 -0.17 -1.13	19.01 -0.34 -0.55	19.51 -0.31 -0.36	20.23 -0.28 -0.16	21.85 0.07 -0.10	21.89 0.17 -0.26	23.59 0.30 -0.02	26.47 0.08 -0.03	28.67 -0.08 -0.54	28.77 -0.17 -1.26	31.34 0.18 -0.74	28.83 0.25 -1.17	27.49 0.11 -0.84	22.50 0.35 -0.35	14.09 0.31 -2.14
DUNKIRK___3 23565	9.98 0.17 -2.60	9.55 0.10 -2.38	9.39 0.14 -2.04	9.09 0.16 -1.73	9.30 0.21 -1.88	10.48 0.19 -2.24	12.52 0.12 -3.14	14.80 -0.15 -3.08	16.49 -0.22 -1.84	16.23 -0.25 -1.12	18.91 -0.43 -0.55	19.43 -0.39 -0.36	20.13 -0.39 -0.16	21.74 -0.04 -0.10	21.78 0.06 -0.26	23.47 0.19 -0.02	26.33 -0.05 -0.03	28.55 -0.20 -0.53	28.62 -0.30 -1.25	31.18 0.03 -0.73	28.68 0.11 -1.16	27.37 0.00 -0.83	22.41 0.26 -0.35	14.04 0.28 -2.12
DUNKIRK___4 23566	9.98 0.17 -2.60	9.55 0.10 -2.38	9.39 0.14 -2.04	9.09 0.16 -1.73	9.30 0.21 -1.88	10.48 0.19 -2.24	12.52 0.12 -3.14	14.80 -0.15 -3.08	16.49 -0.22 -1.84	16.23 -0.25 -1.12	18.91 -0.43 -0.55	19.43 -0.39 -0.36	20.13 -0.39 -0.16	21.74 -0.04 -0.10	21.78 0.06 -0.26	23.47 0.19 -0.02	26.33 -0.05 -0.03	28.55 -0.20 -0.53	28.62 -0.30 -1.25	31.18 0.03 -0.73	28.68 0.11 -1.16	27.37 0.00 -0.83	22.41 0.26 -0.35	14.04 0.28 -2.12
DUNWOODS_138_KV_38W08_REV_LBMP_I 345000	20.91 0.43 -13.27	19.64 0.42 -12.15	18.03 0.42 -10.42	16.43 0.42 -8.82	17.23 0.42 -9.60	19.95 0.47 -11.43	25.81 0.55 -16.02	28.26 0.70 -15.70	25.22 0.97 -9.38	22.27 1.03 -5.89	22.92 1.26 -2.86	22.69 1.34 -1.89	22.59 1.38 -0.86	23.77 1.56 -0.53	24.36 1.54 -1.36	25.04 1.65 -0.12	28.31 1.79 -0.16	32.93 1.92 -2.79	36.12 1.88 -6.56	36.65 2.01 -4.23	35.88 1.78 -6.69	32.71 1.81 -4.36	24.98 1.35 -1.83	23.51 0.72 -11.15
E.WALDEN_115_KV_TR_1_REV_LBMP_G 345009	20.39 0.37 -12.82	19.16 0.36 -11.73	17.61 0.35 -10.06	16.06 0.35 -8.51	16.83 0.35 -9.27	19.48 0.39 -11.04	25.17 0.45 -15.46	27.59 0.57 -15.15	24.74 0.82 -9.05	21.90 0.86 -5.68	22.62 1.05 -2.77	22.39 1.11 -1.82	22.32 1.14 -0.83	23.49 1.30 -0.51	24.05 1.29 -1.31	24.80 1.42 -0.12	28.04 1.53 -0.16	32.58 1.67 -2.70	35.62 1.61 -6.33	36.22 1.67 -4.14	35.49 1.53 -6.54	32.24 1.49 -4.21	24.72 1.16 -1.77	23.01 0.61 -10.76
E179THST_138_KV_TB4_REV_LBMP_J 345001	21.02 0.53 -13.28	19.74 0.52 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.56 -11.43	25.87 0.60 -16.02	28.32 0.76 -15.70	25.30 1.06 -9.38	22.36 1.12 -5.89	23.04 1.37 -2.86	22.81 1.46 -1.89	22.71 1.51 -0.85	23.89 1.69 -0.52	24.48 1.67 -1.35	25.17 1.79 -0.11	28.43 1.92 -0.15	33.07 2.06 -2.78	36.22 1.99 -6.55	36.74 2.10 -4.23	35.99 1.89 -6.69	32.79 1.88 -4.36	25.11 1.48 -1.83	23.67 0.87 -11.16
E179THST_13_KV_LOAD 356214	21.04 0.55 -13.28	19.77 0.54 -12.16	18.18 0.55 -10.43	16.58 0.55 -8.82	17.37 0.55 -9.61	20.06 0.58 -11.43	25.91 0.64 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.91 1.56 -1.89	22.81 1.61 -0.85	24.00 1.80 -0.52	24.56 1.76 -1.35	25.26 1.88 -0.11	28.57 2.06 -0.15	33.21 2.20 -2.78	36.36 2.13 -6.55	36.90 2.25 -4.23	36.13 2.03 -6.69	32.92 2.02 -4.36	25.20 1.57 -1.83	23.72 0.92 -11.16
EAST HAMPTON___GT 23717	23.04 0.69 -15.15	20.62 0.71 -12.84	18.33 0.71 -10.42	19.02 0.72 -11.10	17.62 0.74 -9.68	20.46 0.80 -11.62	26.14 0.87 -16.02	28.61 1.04 -15.70	25.57 1.32 -9.38	25.33 1.47 -8.51	25.84 1.56 -5.48	26.02 1.71 -4.84	26.31 1.71 -4.25	27.19 2.30 -3.21	28.57 2.27 -4.84	31.02 2.51 -5.24	35.33 2.93 -6.05	43.06 3.02 -11.82	46.23 2.91 -15.65	42.22 3.26 -8.55	42.99 2.80 -12.78	35.40 2.84 -6.01	29.39 2.05 -5.54	24.83 1.07 -12.12
EAST RIVER___6 23660	20.91 0.43 -13.27	19.64 0.42 -12.15	18.05 0.43 -10.42	16.45 0.44 -8.82	17.24 0.43 -9.60	19.94 0.46 -11.43	25.78 0.51 -16.02	28.20 0.64 -15.69	25.17 0.92 -9.38	22.27 1.03 -5.89	22.89 1.22 -2.86	22.67 1.32 -1.89	22.55 1.34 -0.86	23.79 1.58 -0.53	24.36 1.55 -1.36	25.01 1.63 -0.12	28.26 1.74 -0.16	32.88 1.86 -2.79	36.09 1.85 -6.56	36.65 2.01 -4.23	35.88 1.78 -6.69	32.68 1.78 -4.36	24.96 1.33 -1.83	23.49 0.70 -11.15



EAST_RIVER___7 23524	20.91 0.43 -13.27	19.64 0.42 -12.15	18.05 0.43 -10.42	16.45 0.44 -8.82	17.24 0.43 -9.60	19.94 0.46 -11.43	25.78 0.51 -16.02	28.20 0.64 -15.69	25.17 0.92 -9.38	22.27 1.03 -5.89	22.89 1.22 -2.86	22.67 1.32 -1.89	22.55 1.34 -0.86	23.79 1.58 -0.53	24.36 1.55 -1.36	25.01 1.63 -0.12	28.26 1.74 -0.16	32.88 1.86 -2.79	36.09 1.85 -6.56	36.65 2.01 -4.23	35.88 1.78 -6.69	32.68 1.78 -4.36	24.96 1.33 -1.83	23.49 0.70 -11.15
EASTVIEW_138_KV_38W32_REV_LBMP_I 345002	20.87 0.41 -13.25	19.60 0.40 -12.12	18.00 0.40 -10.40	16.40 0.40 -8.80	17.19 0.40 -9.58	19.91 0.45 -11.41	25.76 0.53 -15.98	28.21 0.68 -15.66	25.17 0.94 -9.36	22.23 1.00 -5.87	22.88 1.22 -2.86	22.63 1.28 -1.88	22.55 1.34 -0.86	23.72 1.52 -0.53	24.29 1.48 -1.36	24.99 1.61 -0.12	28.26 1.74 -0.16	32.87 1.86 -2.79	36.05 1.83 -6.55	36.58 1.95 -4.22	35.81 1.73 -6.68	32.62 1.73 -4.35	24.94 1.31 -1.83	23.47 0.70 -11.13
EAST_HAMPTON___DIESEL 23722	23.04 0.69 -15.15	20.62 0.71 -12.84	18.33 0.71 -10.42	19.02 0.72 -11.10	17.62 0.74 -9.68	20.47 0.80 -11.62	26.14 0.87 -16.02	28.61 1.04 -15.70	25.59 1.34 -9.38	25.33 1.47 -8.51	25.84 1.56 -5.48	26.03 1.73 -4.84	26.33 1.73 -4.25	27.19 2.30 -3.21	28.57 2.27 -4.84	31.02 2.51 -5.24	35.33 2.93 -6.05	43.06 3.02 -11.82	46.23 2.91 -15.65	42.22 3.26 -8.55	42.99 2.80 -12.78	35.40 2.84 -6.01	29.39 2.05 -5.54	24.83 1.07 -12.12
EAST_PULASKI___ESR 323781	8.37 -0.06 -1.23	8.11 -0.08 -1.13	8.08 -0.08 -0.96	7.95 -0.06 -0.82	8.04 -0.06 -0.89	9.07 -0.03 -1.06	10.70 -0.04 -1.48	13.19 -0.13 -1.45	15.52 -0.22 -0.87	15.62 -0.26 -0.53	18.76 -0.30 -0.26	19.34 -0.29 -0.17	20.13 -0.31 -0.08	21.42 -0.30 -0.05	21.28 -0.30 -0.12	22.95 -0.33 -0.01	26.05 -0.32 -0.01	28.13 -0.34 -0.25	27.94 -0.33 -0.59	30.11 -0.30 0.00	27.16 -0.25 0.00	26.70 -0.24 -0.39	21.88 -0.09 -0.16	12.67 0.02 -1.00
EAST_RIVER___1 323558	20.94 0.46 -13.27	19.67 0.45 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.36 1.12 -5.89	23.02 1.35 -2.86	22.81 1.46 -1.89	22.70 1.49 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.13 1.75 -0.12	28.42 1.90 -0.16	33.05 2.03 -2.79	36.21 1.97 -6.56	36.74 2.10 -4.23	35.96 1.86 -6.69	32.79 1.89 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
EAST_RIVER___2 323559	20.91 0.43 -13.27	19.64 0.42 -12.15	18.05 0.43 -10.42	16.45 0.44 -8.82	17.24 0.43 -9.60	19.94 0.46 -11.43	25.78 0.51 -16.02	28.20 0.64 -15.69	25.17 0.92 -9.38	22.27 1.03 -5.89	22.89 1.22 -2.86	22.67 1.32 -1.89	22.55 1.34 -0.86	23.79 1.58 -0.53	24.36 1.55 -1.36	25.01 1.63 -0.12	28.26 1.74 -0.16	32.88 1.86 -2.79	36.09 1.85 -6.56	36.65 2.01 -4.23	35.88 1.78 -6.69	32.68 1.78 -4.36	24.96 1.33 -1.83	23.49 0.70 -11.15
EAST___DELAWARE_HYD 23607	19.38 0.32 -11.85	18.23 0.32 -10.84	16.80 0.30 -9.30	15.38 0.31 -7.87	16.09 0.31 -8.57	18.59 0.34 -10.21	23.94 0.40 -14.30	26.35 0.48 -14.01	23.97 0.73 -8.37	21.35 0.74 -5.26	22.26 0.90 -2.56	22.10 0.95 -1.68	22.10 0.98 -0.77	23.28 1.13 -0.47	23.29 0.62 -1.21	24.07 0.70 -0.11	27.24 0.74 -0.15	31.62 0.90 -2.49	34.42 0.89 -5.86	35.19 0.79 -3.99	35.12 1.40 -6.31	31.74 1.30 -3.89	24.48 1.05 -1.63	22.12 0.52 -9.95
EIGHT_POINT___WT_PWR 323820	10.82 0.57 -3.04	10.35 0.49 -2.79	10.13 0.55 -2.39	9.78 0.56 -2.02	9.99 0.58 -2.20	11.37 0.70 -2.62	13.73 0.80 -3.67	16.26 0.80 -3.60	17.86 0.83 -2.16	17.46 0.80 -1.31	20.55 1.11 -0.64	21.07 1.19 -0.42	21.85 1.30 -0.19	23.29 1.49 -0.12	23.32 1.57 -0.30	25.29 2.00 -0.03	27.10 0.71 -0.04	29.52 0.68 -0.62	29.72 0.58 -1.46	32.26 0.97 -0.88	29.76 0.96 -1.39	28.23 0.69 -1.00	22.96 0.74 -0.42	14.71 0.51 -2.55
ELBRIDGE_115KV_TB2 80188	8.85 -0.03 -1.67	8.55 -0.05 -1.53	8.47 -0.04 -1.31	8.27 -0.04 -1.11	8.39 -0.03 -1.21	9.47 -0.02 -1.44	11.25 -0.02 -2.01	13.75 -0.09 -1.97	15.90 -0.15 -1.18	15.89 -0.18 -0.72	18.96 -0.19 -0.35	19.52 -0.18 -0.23	20.30 -0.16 -0.10	21.64 -0.11 -0.06	21.53 -0.09 -0.17	23.21 -0.07 -0.01	26.27 -0.11 -0.02	28.42 -0.14 -0.34	28.29 -0.19 -0.80	30.66 -0.18 -0.43	27.95 -0.14 -0.68	26.95 -0.13 -0.53	21.96 -0.07 -0.22	13.06 0.06 -1.36
ELEC_TRO_TEK 24086	22.88 0.53 -15.15	20.43 0.52 -12.84	18.14 0.52 -10.42	18.82 0.53 -11.10	17.41 0.53 -9.68	20.25 0.59 -11.62	25.95 0.68 -16.02	28.41 0.84 -15.70	25.40 1.15 -9.38	25.10 1.24 -8.51	25.73 1.45 -5.48	25.86 1.56 -4.84	26.19 1.59 -4.25	26.78 1.89 -3.21	28.14 1.85 -4.84	30.46 1.95 -5.24	34.57 2.16 -6.05	42.33 2.29 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.17 -12.78	34.73 2.18 -6.01	29.00 1.66 -5.54	24.64 0.88 -12.12
ELLENBURG_WT_PWR 323604	7.23 0.02 0.00	7.13 0.06 0.00	7.24 0.04 0.00	7.25 0.05 0.00	7.26 0.05 0.00	8.10 0.06 0.00	9.34 0.09 0.00	12.07 0.20 0.00	15.05 0.18 0.00	15.60 0.24 0.00	19.03 0.23 0.00	19.60 0.14 0.00	20.48 0.12 0.00	21.74 0.07 0.00	21.48 0.02 0.00	23.26 0.00 0.00	26.43 0.08 0.00	28.42 0.20 0.00	27.98 0.31 0.00	30.72 0.30 0.00	27.66 0.25 0.00	26.47 -0.08 0.00	21.34 -0.46 0.00	11.29 -0.35 0.00
ELM_ST_23_KV_LD_REV_LBMP_A 345012	9.76 0.09 -2.47	9.35 0.02 -2.26	9.20 0.06 -1.94	8.92 0.08 -1.64	9.12 0.12 -1.79	10.25 0.08 -2.13	12.22 -0.01 -2.98	14.46 -0.33 -2.92	16.15 -0.46 -1.74	15.91 -0.51 -1.06	18.55 -0.77 -0.52	19.02 -0.78 -0.34	19.73 -0.77 -0.15	21.30 -0.48 -0.10	21.33 -0.36 -0.24	22.94 -0.35 -0.02	25.78 -0.61 -0.03	27.90 -0.82 -0.50	27.95 -0.91 -1.18	30.37 -0.73 -0.69	27.95 -0.55 -1.09	26.85 -0.48 -0.78	22.09 -0.04 -0.33	13.81 0.16 -2.00
EMPIRE_CC_1 323656	23.32 0.24 -15.87	21.83 0.23 -14.53	19.89 0.24 -12.46	17.99 0.24 -10.54	18.93 0.24 -11.48	21.99 0.27 -13.67	28.66 0.26 -19.15	30.95 0.31 -18.77	26.50 0.42 -11.21	22.80 0.41 -7.04	22.79 0.56 -3.42	22.28 0.56 -2.25	21.99 0.61 -1.02	23.07 0.76 -0.63	23.83 0.75 -1.62	24.22 0.81 -0.14	27.47 0.92 -0.19	32.43 0.88 -3.34	36.35 0.83 -7.84	37.48 0.94 -6.12	37.94 0.85 -9.68	32.82 1.06 -5.21	24.99 1.00 -2.19	25.45 0.48 -13.33
EMPIRE_CC_2 323658	23.32 0.24 -15.87	21.83 0.23 -14.53	19.89 0.24 -12.46	17.99 0.24 -10.54	18.93 0.24 -11.48	21.99 0.27 -13.67	28.66 0.26 -19.15	30.95 0.31 -18.77	26.50 0.42 -11.21	22.80 0.41 -7.04	22.79 0.56 -3.42	22.28 0.56 -2.25	21.99 0.61 -1.02	23.07 0.76 -0.63	23.83 0.75 -1.62	24.22 0.81 -0.14	27.47 0.92 -0.19	32.43 0.88 -3.34	36.35 0.83 -7.84	37.48 0.94 -6.12	37.94 0.85 -9.68	32.82 1.06 -5.21	24.99 1.00 -2.19	25.45 0.48 -13.33
ENORWICH_115KV_TB1 80156	11.93 0.49 -4.24	11.39 0.44 -3.88	10.97 0.45 -3.33	10.50 0.48 -2.81	10.79 0.52 -3.07	12.34 0.64 -3.65	15.13 0.77 -5.11	17.69 0.81 -5.01	18.63 0.76 -3.00	17.72 0.72 -1.65	20.67 1.07 -0.80	21.18 1.19 -0.53	21.86 1.26 -0.24	23.24 1.41 -0.15	23.23 1.39 -0.38	24.95 1.65 -0.03	28.51 2.11 -0.05	31.54 2.54 -0.78	32.12 2.60 -1.84	34.72 3.16 -1.14	32.01 2.80 -1.80	30.08 2.31 -1.22	24.32 2.01 -0.51	15.87 1.11 -3.12



ERIE_ST__34_KV_TB1-2 80199	9.83 0.07 -2.55	9.41 0.00 -2.33	9.24 0.04 -2.00	8.94 0.05 -1.69	9.15 0.10 -1.84	10.31 0.06 -2.20	12.32 -0.01 -3.08	14.57 -0.32 -3.02	16.25 -0.43 -1.80	15.99 -0.46 -1.10	18.66 -0.68 -0.53	19.17 -0.64 -0.35	19.84 -0.67 -0.16	21.41 -0.37 -0.10	21.47 -0.24 -0.25	23.36 0.07 -0.02	25.99 -0.40 -0.03	28.15 -0.59 -0.52	28.21 -0.69 -1.22	31.01 -0.12 -0.72	28.46 -0.08 -1.13	26.91 -0.45 -0.81	22.08 -0.07 -0.34	13.83 0.12 -2.07
ERIE_WT_PWR 323693	9.86 0.12 -2.53	9.43 0.05 -2.31	9.28 0.09 -1.98	8.99 0.11 -1.68	9.19 0.16 -1.83	10.34 0.12 -2.18	12.35 0.05 -3.05	14.59 -0.26 -2.99	16.29 -0.37 -1.79	16.03 -0.41 -1.09	18.75 -0.58 -0.53	19.17 -0.64 -0.35	20.00 -0.51 -0.16	21.43 -0.35 -0.10	21.49 -0.21 -0.25	23.15 -0.14 -0.02	25.96 -0.42 -0.03	28.12 -0.62 -0.52	28.20 -0.69 -1.21	30.73 -0.40 -0.71	28.28 -0.25 -1.12	27.03 -0.32 -0.80	22.20 0.07 -0.34	13.90 0.21 -2.05
ESPRGFLD_115KV_TB1 80157	5.33 0.36 2.23	5.35 0.33 2.05	5.78 0.33 1.75	6.05 0.34 1.48	5.95 0.36 1.62	6.56 0.44 1.93	7.09 0.54 2.70	9.84 0.62 2.64	14.18 0.73 1.42	15.21 0.63 0.77	19.24 0.81 0.37	20.06 0.88 0.28	21.14 0.92 0.13	22.64 1.04 0.08	22.31 1.05 0.20	24.41 1.16 0.02	27.75 1.42 0.02	29.47 1.67 0.41	28.39 1.69 0.97	41.92 1.98 -9.53	44.26 1.78 -15.07	27.52 1.62 0.65	22.77 1.24 0.27	10.62 0.63 1.66
ETNA_115_KV_TB1_REV_LBMP_C 345029	10.61 0.18 -3.23	10.17 0.15 -2.95	9.90 0.17 -2.53	9.51 0.17 -2.14	9.73 0.19 -2.33	11.06 0.23 -2.78	13.41 0.27 -3.89	15.93 0.25 -3.81	17.38 0.22 -2.29	16.92 0.20 -1.37	19.75 0.28 -0.67	20.23 0.33 -0.44	20.90 0.35 -0.20	22.26 0.46 -0.12	22.24 0.47 -0.32	23.90 0.60 -0.03	27.05 0.66 -0.04	29.60 0.73 -0.65	29.93 0.72 -1.53	32.22 0.88 -0.93	29.73 0.85 -1.47	28.28 0.72 -1.01	22.86 0.63 -0.43	14.66 0.42 -2.60
ETNA____115KV_TB2 80207	10.61 0.18 -3.23	10.17 0.15 -2.95	9.90 0.17 -2.53	9.51 0.17 -2.14	9.73 0.19 -2.33	11.06 0.23 -2.78	13.41 0.27 -3.89	15.93 0.25 -3.81	17.38 0.22 -2.29	16.92 0.20 -1.37	19.75 0.28 -0.67	20.23 0.33 -0.44	20.90 0.35 -0.20	22.26 0.46 -0.12	22.24 0.47 -0.32	23.90 0.60 -0.03	27.05 0.66 -0.04	29.60 0.73 -0.65	29.93 0.72 -1.53	32.22 0.88 -0.93	29.73 0.85 -1.47	28.28 0.72 -1.01	22.86 0.63 -0.43	14.66 0.42 -2.60
EUCLID____115KV_TB2 356179	8.52 -0.07 -1.39	8.25 -0.09 -1.27	8.20 -0.09 -1.09	8.04 -0.08 -0.92	8.14 -0.07 -1.00	9.18 -0.06 -1.19	10.84 -0.08 -1.67	13.33 -0.18 -1.64	15.61 -0.24 -0.98	15.69 -0.26 -0.60	18.79 -0.30 -0.29	19.36 -0.29 -0.19	20.14 -0.31 -0.09	21.45 -0.28 -0.05	21.33 -0.26 -0.14	23.02 -0.26 -0.01	26.06 -0.32 -0.02	28.14 -0.37 -0.28	27.93 -0.42 -0.67	29.99 -0.43 0.00	27.05 -0.36 0.00	26.64 -0.35 -0.44	21.79 -0.20 -0.19	12.75 -0.02 -1.13
E_CANADA_CAP_HY 24051	28.33 0.46 -20.66	26.39 0.41 -18.91	23.84 0.42 -16.22	21.35 0.42 -13.72	22.61 0.45 -14.95	26.40 0.55 -17.80	34.85 0.67 -24.93	37.09 0.78 -24.43	30.50 0.97 -14.67	25.44 0.83 -9.26	24.30 1.00 -4.51	23.48 1.07 -2.95	22.83 1.14 -1.34	23.89 1.41 -0.80	24.99 1.46 -2.07	25.10 1.65 -0.18	28.66 2.06 -0.25	34.77 2.17 -4.37	40.19 2.24 -10.27	44.51 2.58 -11.51	47.97 2.36 -18.20	35.47 2.10 -6.82	26.28 1.61 -2.86	29.85 0.76 -17.45
E_CANADA_MHWK_HY 24050	7.26 0.06 0.00	7.11 0.04 0.00	7.23 0.03 0.00	7.24 0.04 0.00	7.24 0.03 0.00	8.10 0.06 0.00	9.34 0.08 0.00	11.95 0.08 0.00	14.98 0.10 0.00	15.46 0.11 0.00	18.97 0.17 0.00	19.72 0.25 0.00	20.60 0.25 0.00	21.79 0.11 0.00	21.56 0.11 0.00	23.38 0.12 0.00	26.51 0.16 0.00	28.42 0.20 0.00	27.87 0.20 0.00	30.63 0.21 0.00	27.55 0.14 0.00	26.68 0.13 0.00	22.02 0.22 0.00	11.75 0.10 0.00
E_FISHKILL____LBMP 23776	21.10 0.36 -13.53	19.81 0.35 -12.39	18.17 0.35 -10.62	16.55 0.36 -8.99	17.36 0.36 -9.79	20.11 0.40 -11.66	26.04 0.46 -16.33	28.45 0.58 -16.00	25.23 0.80 -9.56	22.20 0.84 -6.00	22.77 1.05 -2.92	22.49 1.11 -1.92	22.37 1.14 -0.87	23.52 1.30 -0.54	24.13 1.29 -1.39	24.76 1.37 -0.12	28.02 1.50 -0.17	32.68 1.61 -2.85	35.92 1.55 -6.69	36.40 1.67 -4.31	35.74 1.51 -6.82	32.50 1.51 -4.44	24.84 1.18 -1.86	23.63 0.62 -11.37
FALCON____SEABRD_CC1 323796	7.31 0.10 0.00	7.21 0.14 0.00	7.33 0.13 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.46 0.21 0.00	12.24 0.37 0.00	15.23 0.36 0.00	15.80 0.45 0.00	19.25 0.45 0.00	19.83 0.37 0.00	20.72 0.37 0.00	21.98 0.30 0.00	21.73 0.28 0.00	23.52 0.26 0.00	26.72 0.37 0.00	28.76 0.53 0.00	28.34 0.66 0.00	31.11 0.70 0.00	28.01 0.60 0.00	26.78 0.24 0.00	21.56 -0.24 0.00	11.41 -0.23 0.00
FALCON____SEABRD_CC2 323797	7.31 0.10 0.00	7.21 0.14 0.00	7.33 0.13 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.46 0.21 0.00	12.24 0.37 0.00	15.23 0.36 0.00	15.80 0.45 0.00	19.25 0.45 0.00	19.83 0.37 0.00	20.72 0.37 0.00	21.98 0.30 0.00	21.73 0.28 0.00	23.52 0.26 0.00	26.72 0.37 0.00	28.76 0.53 0.00	28.34 0.66 0.00	31.11 0.70 0.00	28.01 0.60 0.00	26.78 0.24 0.00	21.56 -0.24 0.00	11.41 -0.23 0.00
FAR ROCKAWAY____4 23548	22.99 0.63 -15.15	20.53 0.62 -12.84	18.24 0.62 -10.42	18.92 0.62 -11.10	17.51 0.62 -9.68	20.35 0.69 -11.62	26.07 0.80 -16.02	28.58 1.01 -15.70	25.60 1.35 -9.38	25.30 1.44 -8.51	25.97 1.69 -5.48	26.09 1.79 -4.84	26.43 1.83 -4.25	26.97 2.08 -3.21	28.35 2.06 -4.84	30.74 2.23 -5.24	34.94 2.53 -6.05	42.47 2.43 -11.82	45.68 2.35 -15.65	41.52 2.55 -8.55	42.50 2.30 -12.78	35.08 2.52 -6.01	29.35 2.01 -5.54	24.82 1.06 -12.12
FARRAGUT_138_KV_32071_REV_LBMP_J 345003	20.95 0.47 -13.27	19.68 0.46 -12.15	18.08 0.46 -10.42	16.48 0.47 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.86 0.59 -16.02	28.34 0.77 -15.69	25.32 1.07 -9.38	22.39 1.15 -5.89	23.07 1.41 -2.86	22.83 1.48 -1.89	22.74 1.53 -0.86	23.92 1.71 -0.53	24.49 1.67 -1.36	25.18 1.79 -0.12	28.47 1.95 -0.16	33.07 2.06 -2.79	36.26 2.02 -6.56	36.77 2.13 -4.23	35.99 1.89 -6.69	32.82 1.91 -4.36	25.07 1.44 -1.83	23.58 0.79 -11.15
FARRAGUT_138_KV_38B01_REV_LBMP_J 345016	20.95 0.47 -13.27	19.69 0.47 -12.15	18.08 0.46 -10.42	16.48 0.47 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.86 0.59 -16.02	28.34 0.77 -15.69	25.32 1.07 -9.38	22.39 1.15 -5.89	23.06 1.39 -2.86	22.83 1.48 -1.89	22.74 1.53 -0.86	23.92 1.71 -0.53	24.49 1.67 -1.36	25.18 1.79 -0.12	28.47 1.95 -0.16	33.07 2.06 -2.79	36.26 2.02 -6.56	36.77 2.13 -4.23	35.99 1.89 -6.69	32.84 1.94 -4.36	25.09 1.46 -1.83	23.59 0.80 -11.15
FARRAGUT_138_KV_38M12_REV_LBMP_J 345017	20.95 0.47 -13.27	19.68 0.46 -12.15	18.08 0.46 -10.42	16.48 0.46 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.86 0.59 -16.02	28.34 0.77 -15.69	25.32 1.07 -9.38	22.38 1.14 -5.89	23.06 1.39 -2.86	22.83 1.48 -1.89	22.72 1.51 -0.86	23.90 1.69 -0.53	24.49 1.67 -1.36	25.15 1.77 -0.12	28.44 1.92 -0.16	33.05 2.03 -2.79	36.23 1.99 -6.56	36.74 2.10 -4.23	35.99 1.89 -6.69	32.82 1.91 -4.36	25.07 1.44 -1.83	23.58 0.79 -11.15



FARRAGUT___LBMP 323566	20.94 0.46 -13.27	19.67 0.45 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.69	25.30 1.06 -9.38	22.36 1.12 -5.89	23.04 1.37 -2.86	22.81 1.46 -1.89	22.72 1.51 -0.86	23.90 1.69 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.05 2.03 -2.79	36.21 1.97 -6.56	36.71 2.07 -4.23	35.96 1.86 -6.69	32.79 1.88 -4.36	25.05 1.42 -1.83	23.57 0.78 -11.15
FENNER___WINDPWR 24204	9.14 0.13 -1.80	8.82 0.11 -1.65	8.73 0.11 -1.41	8.52 0.13 -1.19	8.65 0.14 -1.30	9.78 0.19 -1.55	11.64 0.22 -2.17	14.22 0.22 -2.13	16.35 0.21 -1.27	16.31 0.18 -0.77	19.48 0.30 -0.38	20.04 0.33 -0.25	20.83 0.37 -0.11	22.12 0.37 -0.07	22.02 0.39 -0.18	23.70 0.42 -0.02	26.93 0.55 -0.02	29.21 0.62 -0.37	29.18 0.64 -0.86	31.61 0.73 -0.47	28.81 0.66 -0.74	27.65 0.53 -0.57	22.59 0.55 -0.24	13.43 0.33 -1.47
FIBERTEK___ENERGY 23856	8.80 -0.01 -1.60	8.50 -0.04 -1.46	8.43 -0.02 -1.25	8.24 -0.02 -1.06	8.35 -0.01 -1.15	9.43 0.01 -1.38	11.18 0.00 -1.93	13.69 -0.07 -1.89	15.90 -0.10 -1.13	15.92 -0.12 -0.69	19.02 -0.11 -0.33	19.59 -0.10 -0.22	20.37 -0.08 -0.10	21.68 -0.07 -0.06	21.57 -0.04 -0.16	23.28 0.00 -0.01	26.35 -0.03 -0.02	28.49 -0.06 -0.33	28.34 -0.11 -0.77	30.70 -0.12 -0.40	27.99 -0.05 -0.64	26.98 -0.08 -0.51	22.02 0.00 -0.21	13.03 0.08 -1.30
FITZPATRICK____ 23598	8.15 -0.18 -1.12	7.90 -0.20 -1.03	7.89 -0.19 -0.88	7.76 -0.19 -0.75	7.84 -0.18 -0.81	8.82 -0.19 -0.97	10.38 -0.23 -1.36	12.84 -0.36 -1.33	15.19 -0.48 -0.80	15.33 -0.51 -0.49	18.45 -0.58 -0.24	19.02 -0.60 -0.16	19.81 -0.61 -0.07	21.07 -0.65 -0.04	20.92 -0.64 -0.11	22.58 -0.70 -0.01	25.58 -0.79 -0.01	27.58 -0.88 -0.23	27.33 -0.89 -0.54	29.44 -0.97 0.00	26.56 -0.85 0.00	26.11 -0.80 -0.36	21.37 -0.59 -0.15	12.33 -0.23 -0.92
FLOWRFLD_69_KV_BK1 356044	22.92 0.56 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	25.98 0.71 -16.02	28.45 0.88 -15.70	25.43 1.17 -9.38	25.15 1.29 -8.51	25.71 1.43 -5.48	25.86 1.56 -4.84	26.19 1.59 -4.25	26.91 2.02 -3.21	28.27 1.97 -4.84	30.62 2.12 -5.24	34.89 2.48 -6.05	42.58 2.54 -11.82	45.82 2.49 -15.65	41.76 2.80 -8.55	42.58 2.38 -12.78	34.97 2.42 -6.01	29.09 1.74 -5.54	24.69 0.93 -12.12
FORGEBRK_115_KV_TR1_2_REV_LBMP_G 345010	20.89 0.42 -13.27	19.62 0.41 -12.14	18.02 0.40 -10.41	16.41 0.40 -8.81	17.21 0.40 -9.60	19.93 0.45 -11.43	25.78 0.52 -16.01	28.20 0.64 -15.69	25.15 0.91 -9.37	22.19 0.95 -5.88	22.83 1.17 -2.86	22.57 1.23 -1.88	22.47 1.26 -0.86	23.64 1.43 -0.53	24.23 1.42 -1.36	24.97 1.58 -0.12	28.23 1.71 -0.16	32.90 1.89 -2.79	36.06 1.83 -6.56	36.54 1.86 -4.27	35.89 1.73 -6.75	32.58 1.67 -4.36	24.94 1.31 -1.83	23.45 0.66 -11.14
FORT ORANGE____ 23900	23.86 0.32 -16.34	22.32 0.30 -14.95	20.33 0.31 -12.82	18.36 0.31 -10.85	19.34 0.32 -11.82	22.47 0.35 -14.07	29.36 0.40 -19.71	31.66 0.48 -19.32	27.03 0.62 -11.54	23.19 0.60 -7.24	23.06 0.73 -3.52	22.54 0.76 -2.32	22.20 0.79 -1.05	23.28 0.95 -0.65	24.09 0.97 -1.67	24.51 1.09 -0.15	27.82 1.27 -0.20	33.01 1.35 -3.44	37.08 1.33 -8.07	40.03 1.49 -8.12	41.60 1.34 -12.84	33.29 1.38 -5.36	25.21 1.15 -2.25	25.91 0.55 -13.72
FORT_DRUM_COGEN 23780	8.12 0.06 -0.85	7.89 0.04 -0.78	7.91 0.04 -0.67	7.84 0.08 -0.57	7.92 0.09 -0.62	8.95 0.17 -0.73	10.51 0.23 -1.03	13.08 0.20 -1.01	15.55 0.07 -0.60	15.70 -0.02 -0.37	19.00 0.02 -0.18	19.60 0.02 -0.12	20.41 0.00 -0.05	21.67 -0.04 -0.03	21.47 -0.06 -0.08	23.22 -0.05 -0.01	26.55 0.18 -0.01	28.82 0.42 -0.17	28.59 0.50 -0.41	31.21 0.79 0.00	28.10 0.69 0.00	27.35 0.53 -0.27	22.46 0.55 -0.11	12.64 0.30 -0.70
FPL_FAR_ROCK_GT1 24212	22.99 0.63 -15.15	20.53 0.61 -12.84	18.24 0.62 -10.42	18.92 0.62 -11.10	17.51 0.62 -9.68	20.35 0.69 -11.62	26.07 0.80 -16.02	28.58 1.01 -15.70	25.60 1.35 -9.38	25.30 1.44 -8.51	25.96 1.67 -5.48	26.09 1.79 -4.84	26.43 1.83 -4.25	26.97 2.08 -3.21	28.35 2.06 -4.84	30.74 2.23 -5.24	34.94 2.53 -6.05	42.47 2.43 -11.82	45.68 2.35 -15.65	41.51 2.56 -8.55	42.49 2.30 -12.78	35.08 2.52 -6.01	29.40 2.05 -5.55	24.83 1.07 -12.12
FPL_FAR_ROCK_GT2 23815	22.99 0.63 -15.15	20.53 0.61 -12.84	18.24 0.62 -10.42	18.92 0.62 -11.10	17.51 0.62 -9.68	20.35 0.69 -11.62	26.07 0.80 -16.02	28.58 1.01 -15.70	25.60 1.35 -9.38	25.30 1.44 -8.51	25.96 1.67 -5.48	26.09 1.79 -4.84	26.43 1.83 -4.25	26.97 2.08 -3.21	28.35 2.06 -4.84	30.74 2.23 -5.24	34.94 2.53 -6.05	42.47 2.43 -11.82	45.68 2.35 -15.65	41.51 2.56 -8.55	42.49 2.30 -12.78	35.08 2.52 -6.01	29.40 2.05 -5.55	24.83 1.07 -12.12
FRANKLIN_FALL_HYD 24054	7.24 0.03 0.00	7.14 0.06 0.00	7.24 0.04 0.00	7.26 0.06 0.00	7.26 0.06 0.00	8.11 0.06 0.00	9.38 0.13 0.00	12.13 0.26 0.00	15.09 0.22 0.00	15.66 0.31 0.00	19.08 0.28 0.00	19.66 0.19 0.00	20.54 0.18 0.00	21.70 0.02 0.00	21.39 -0.06 0.00	23.19 -0.07 0.00	26.36 0.00 0.00	28.33 0.11 0.00	27.96 0.28 0.00	30.69 0.27 0.00	27.66 0.25 0.00	26.52 -0.03 0.00	21.43 -0.37 0.00	11.37 -0.27 0.00
FREEPORT_EQUS_GT1 23764	22.93 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.30 0.64 -11.62	26.00 0.73 -16.02	28.49 0.93 -15.70	25.50 1.25 -9.38	25.20 1.34 -8.51	25.82 1.54 -5.48	25.96 1.65 -4.84	26.29 1.69 -4.25	26.88 1.99 -3.21	28.25 1.95 -4.84	30.60 2.09 -5.24	34.73 2.32 -6.05	42.53 2.48 -11.82	45.76 2.44 -15.65	41.60 2.64 -8.55	42.55 2.36 -12.78	34.89 2.34 -6.01	29.20 1.85 -5.54	24.74 0.98 -12.12
FREEPORT___CT2 23818	22.93 0.58 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.30 0.64 -11.62	26.00 0.73 -16.02	28.49 0.93 -15.70	25.50 1.25 -9.38	25.20 1.34 -8.51	25.82 1.54 -5.48	25.96 1.65 -4.84	26.29 1.69 -4.25	26.88 1.99 -3.21	28.25 1.95 -4.84	30.60 2.09 -5.24	34.73 2.32 -6.05	42.53 2.48 -11.82	45.76 2.44 -15.65	41.60 2.64 -8.55	42.55 2.36 -12.78	34.89 2.34 -6.01	29.20 1.85 -5.54	24.74 0.98 -12.12
FRESHKLS_33_KV_LOAD 356253	20.99 0.50 -13.28	19.72 0.49 -12.16	18.11 0.48 -10.43	16.51 0.48 -8.82	17.29 0.48 -9.61	19.99 0.51 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.70	25.26 1.01 -9.38	22.31 1.07 -5.89	23.00 1.33 -2.86	22.79 1.44 -1.89	22.70 1.49 -0.86	23.91 1.69 -0.53	24.49 1.67 -1.37	25.18 1.79 -0.13	28.45 1.92 -0.17	33.12 2.12 -2.78	36.34 2.10 -6.55	36.83 2.19 -4.23	36.05 1.95 -6.69	32.82 1.91 -4.36	25.20 1.57 -1.83	23.66 0.86 -11.16
FULTON COGEN____ 23766	8.47 -0.08 -1.35	8.20 -0.11 -1.23	8.16 -0.09 -1.06	8.01 -0.09 -0.89	8.10 -0.08 -0.97	9.13 -0.07 -1.16	10.78 -0.09 -1.62	13.27 -0.19 -1.59	15.57 -0.25 -0.95	15.64 -0.29 -0.58	18.76 -0.32 -0.28	19.34 -0.31 -0.19	20.13 -0.31 -0.08	21.43 -0.30 -0.05	21.29 -0.30 -0.13	22.97 -0.30 -0.01	26.03 -0.34 -0.02	28.07 -0.42 -0.28	27.88 -0.44 -0.65	29.93 -0.49 0.00	27.03 -0.38 0.00	26.60 -0.37 -0.43	21.79 -0.20 -0.18	12.72 -0.02 -1.10



FULTON___LFGE 323630	27.35 0.69 -19.45	25.48 0.61 -17.80	23.10 0.64 -15.26	20.73 0.62 -12.92	21.95 0.68 -14.07	25.60 0.80 -16.75	33.71 0.99 -23.46	36.00 1.14 -22.99	29.91 1.41 -13.62	25.12 1.18 -8.58	24.35 1.37 -4.18	23.73 1.50 -2.77	23.18 1.57 -1.26	23.97 1.52 -0.77	25.03 1.59 -1.99	25.30 1.86 -0.18	28.97 2.37 -0.24	35.26 2.93 -4.11	40.40 3.07 -9.65	46.48 3.50 -12.57	50.49 3.21 -19.87	35.61 2.65 -6.41	26.95 2.46 -2.69	29.15 1.12 -16.39
G.F.CEMENT___DRP 24184	24.83 0.50 -17.11	23.19 0.45 -15.66	21.11 0.48 -13.43	19.03 0.46 -11.37	20.07 0.48 -12.38	23.35 0.56 -14.74	30.58 0.68 -20.65	32.92 0.82 -20.24	28.01 1.06 -12.08	23.92 0.98 -7.59	23.64 1.15 -3.69	23.10 1.21 -2.43	22.60 1.14 -1.10	23.70 1.34 -0.68	24.56 1.35 -1.75	24.86 1.44 -0.16	27.83 1.27 -0.21	33.20 1.38 -3.60	37.55 1.41 -8.46	44.91 1.61 -12.88	49.26 1.48 -20.37	33.52 1.35 -5.62	25.34 1.18 -2.36	26.49 0.48 -14.38
GARDENVILLE___LBMP 24039	9.83 0.10 -2.52	9.41 0.03 -2.31	9.25 0.07 -1.98	8.96 0.09 -1.67	9.17 0.14 -1.82	10.31 0.10 -2.17	12.30 0.01 -3.04	14.54 -0.31 -2.98	16.24 -0.42 -1.78	15.96 -0.48 -1.08	18.61 -0.71 -0.53	19.11 -0.70 -0.35	19.80 -0.71 -0.16	21.36 -0.41 -0.10	21.40 -0.30 -0.25	23.05 -0.23 -0.02	25.88 -0.50 -0.03	28.03 -0.71 -0.51	28.08 -0.80 -1.20	30.57 -0.55 -0.70	28.14 -0.38 -1.11	26.95 -0.40 -0.80	22.14 0.00 -0.34	13.86 0.17 -2.04
GARDNVLA_35_KV_LD 355827	9.87 0.14 -2.53	9.45 0.06 -2.31	9.29 0.11 -1.99	9.00 0.12 -1.68	9.21 0.17 -1.83	10.37 0.14 -2.18	12.37 0.06 -3.06	14.63 -0.24 -2.99	16.33 -0.33 -1.79	16.06 -0.38 -1.09	18.73 -0.60 -0.53	19.23 -0.58 -0.35	19.92 -0.59 -0.16	21.50 -0.28 -0.10	21.56 -0.15 -0.25	23.22 -0.07 -0.02	26.04 -0.34 -0.03	28.20 -0.54 -0.52	28.25 -0.64 -1.21	30.79 -0.33 -0.71	28.34 -0.19 -1.12	27.09 -0.27 -0.80	22.27 0.13 -0.34	13.93 0.23 -2.06
GELCKHM___115KV_LOAD 80723	8.62 -0.05 -1.46	8.34 -0.07 -1.34	8.28 -0.06 -1.15	8.11 -0.06 -0.97	8.22 -0.05 -1.06	9.27 -0.04 -1.26	10.96 -0.06 -1.77	13.46 -0.14 -1.73	15.71 -0.19 -1.04	15.77 -0.21 -0.63	18.88 -0.23 -0.31	19.45 -0.21 -0.20	20.22 -0.22 -0.09	21.54 -0.17 -0.06	21.43 -0.17 -0.15	23.11 -0.16 -0.01	26.19 -0.18 -0.02	28.27 -0.25 -0.30	28.08 -0.30 -0.70	30.47 -0.30 -0.36	27.73 -0.25 -0.57	26.78 -0.24 -0.47	21.87 -0.13 -0.20	12.85 0.01 -1.20
GENERAL___MILLS 23808	9.85 0.12 -2.53	9.43 0.04 -2.31	9.27 0.09 -1.98	8.99 0.11 -1.68	9.19 0.15 -1.83	10.34 0.11 -2.18	12.34 0.04 -3.05	14.59 -0.27 -2.99	16.27 -0.39 -1.79	16.01 -0.43 -1.09	18.65 -0.68 -0.53	19.15 -0.66 -0.35	19.86 -0.65 -0.16	21.43 -0.35 -0.10	21.47 -0.24 -0.25	23.15 -0.14 -0.02	25.94 -0.45 -0.03	28.09 -0.65 -0.51	28.17 -0.72 -1.21	30.70 -0.43 -0.71	28.25 -0.27 -1.12	27.00 -0.35 -0.80	22.20 0.07 -0.34	13.89 0.20 -2.05
GE_PLASTICS___DRP 24183	23.86 0.27 -16.38	22.31 0.25 -14.99	20.32 0.27 -12.85	18.34 0.27 -10.88	19.33 0.27 -11.85	22.45 0.30 -14.11	29.34 0.33 -19.76	31.63 0.40 -19.36	26.97 0.54 -11.56	23.15 0.54 -7.26	22.99 0.66 -3.53	22.45 0.66 -2.33	22.12 0.71 -1.06	23.18 0.85 -0.65	23.97 0.84 -1.68	24.34 0.93 -0.15	27.64 1.08 -0.20	32.79 1.13 -3.44	36.85 1.08 -8.09	39.13 1.22 -7.50	40.37 1.10 -11.86	33.06 1.14 -5.38	25.06 1.00 -2.26	25.88 0.49 -13.75
GILBOA___1 23756	20.49 0.22 -13.06	19.23 0.21 -11.95	17.66 0.22 -10.25	16.10 0.22 -8.67	16.88 0.22 -9.45	19.55 0.25 -11.25	25.29 0.29 -15.76	27.64 0.33 -15.44	24.54 0.45 -9.22	21.61 0.46 -5.79	22.18 0.56 -2.82	21.90 0.58 -1.86	21.81 0.61 -0.84	22.94 0.74 -0.52	23.52 0.73 -1.34	24.17 0.79 -0.12	27.38 0.87 -0.16	31.84 0.88 -2.75	34.99 0.86 -6.46	35.24 0.94 -3.88	34.40 0.85 -6.14	31.76 0.93 -4.29	24.39 0.78 -1.80	23.01 0.40 -10.97
GILBOA___2 23757	20.49 0.22 -13.06	19.23 0.21 -11.95	17.66 0.22 -10.25	16.10 0.22 -8.67	16.88 0.22 -9.45	19.55 0.25 -11.25	25.29 0.29 -15.76	27.64 0.33 -15.44	24.54 0.45 -9.22	21.61 0.46 -5.79	22.18 0.56 -2.82	21.90 0.58 -1.86	21.81 0.61 -0.84	22.94 0.74 -0.52	23.52 0.73 -1.34	24.17 0.79 -0.12	27.38 0.87 -0.16	31.84 0.88 -2.75	34.99 0.86 -6.46	35.24 0.94 -3.88	34.40 0.85 -6.14	31.76 0.93 -4.29	24.39 0.78 -1.80	23.01 0.40 -10.97
GILBOA___3 23758	20.49 0.22 -13.06	19.23 0.21 -11.95	17.66 0.22 -10.25	16.10 0.22 -8.67	16.88 0.22 -9.45	19.55 0.25 -11.25	25.29 0.29 -15.76	27.64 0.33 -15.44	24.54 0.45 -9.22	21.61 0.46 -5.79	22.18 0.56 -2.82	21.90 0.58 -1.86	21.81 0.61 -0.84	22.94 0.74 -0.52	23.52 0.73 -1.34	24.17 0.79 -0.12	27.38 0.87 -0.16	31.84 0.88 -2.75	34.99 0.86 -6.46	35.24 0.94 -3.88	34.40 0.85 -6.14	31.76 0.93 -4.29	24.39 0.78 -1.80	23.01 0.40 -10.97
GILBOA___4 23759	20.49 0.22 -13.06	19.23 0.21 -11.95	17.66 0.22 -10.25	16.10 0.22 -8.67	16.88 0.22 -9.45	19.55 0.25 -11.25	25.29 0.29 -15.76	27.64 0.33 -15.44	24.54 0.45 -9.22	21.61 0.46 -5.79	22.18 0.56 -2.82	21.90 0.58 -1.86	21.81 0.61 -0.84	22.94 0.74 -0.52	23.52 0.73 -1.34	24.17 0.79 -0.12	27.38 0.87 -0.16	31.84 0.88 -2.75	34.99 0.86 -6.46	35.24 0.94 -3.88	34.40 0.85 -6.14	31.76 0.93 -4.29	24.39 0.78 -1.80	23.01 0.40 -10.97
GILBOA___ 23599	20.49 0.22 -13.06	19.24 0.21 -11.95	17.66 0.22 -10.25	16.10 0.22 -8.67	16.88 0.22 -9.45	19.54 0.25 -11.25	25.28 0.28 -15.76	27.64 0.33 -15.44	24.54 0.45 -9.22	21.61 0.46 -5.79	22.18 0.56 -2.82	21.90 0.58 -1.86	21.83 0.63 -0.84	22.94 0.74 -0.52	23.52 0.73 -1.34	24.17 0.79 -0.12	27.39 0.87 -0.16	31.84 0.87 -2.75	34.99 0.86 -6.46	35.24 0.94 -3.89	34.41 0.85 -6.15	31.77 0.93 -4.29	24.37 0.76 -1.80	23.01 0.40 -10.97
GINNA___ 23603	8.63 -0.33 -1.75	8.30 -0.38 -1.60	8.21 -0.37 -1.38	8.02 -0.35 -1.16	8.14 -0.33 -1.27	9.19 -0.36 -1.51	10.91 -0.45 -2.12	13.23 -0.71 -2.07	15.19 -0.92 -1.24	15.11 -1.00 -0.76	17.95 -1.22 -0.37	18.36 -1.34 -0.24	19.18 -1.28 -0.11	20.45 -1.30 -0.07	20.38 -1.24 -0.17	21.86 -1.42 -0.02	24.77 -1.61 -0.02	26.80 -1.78 -0.36	26.75 -1.77 -0.84	28.86 -2.01 -0.45	26.40 -1.73 -0.72	25.59 -1.51 -0.56	20.93 -1.11 -0.23	12.63 -0.44 -1.43
GLEN PARK___ 23778	8.18 0.09 -0.88	7.94 0.06 -0.81	7.96 0.06 -0.69	7.89 0.10 -0.58	7.97 0.12 -0.64	9.01 0.21 -0.76	10.59 0.28 -1.06	13.16 0.25 -1.04	15.61 0.12 -0.62	15.75 0.02 -0.38	19.06 0.08 -0.19	19.66 0.08 -0.12	20.47 0.06 -0.06	21.74 0.02 -0.03	21.54 0.00 -0.09	23.29 0.02 -0.01	26.66 0.29 -0.01	28.97 0.56 -0.18	28.74 0.64 -0.42	31.39 0.97 0.00	28.26 0.85 0.00	27.52 0.69 -0.28	22.57 0.65 -0.12	12.73 0.37 -0.72
GLENDALE_27_KV_LOAD 356172	21.01 0.52 -13.28	19.74 0.51 -12.16	18.14 0.51 -10.43	16.53 0.51 -8.82	17.32 0.50 -9.61	20.04 0.56 -11.43	25.92 0.65 -16.02	28.41 0.84 -15.70	25.42 1.17 -9.38	22.48 1.24 -5.89	23.19 1.52 -2.86	22.96 1.62 -1.89	22.89 1.67 -0.86	27.41 1.86 -3.87	25.92 1.85 -2.62	25.37 1.98 -0.13	28.69 2.16 -0.17	36.48 2.29 -5.98	37.33 2.24 -7.40	37.02 2.37 -4.23	36.21 2.11 -6.69	33.03 2.12 -4.36	25.22 1.59 -1.83	23.67 0.87 -11.16



GLENWOOD_IC_1_G5 23712	22.87 0.52 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.40 0.51 -9.68	20.23 0.57 -11.62	25.94 0.67 -16.02	28.41 0.84 -15.70	25.40 1.15 -9.38	25.09 1.23 -8.51	25.77 1.49 -5.48	25.88 1.58 -4.84	26.21 1.61 -4.25	26.76 1.86 -3.21	28.14 1.85 -4.84	30.48 1.98 -5.24	34.41 2.00 -6.05	42.19 2.14 -11.82	45.40 2.08 -15.65	41.18 2.22 -8.55	42.17 1.97 -12.78	34.63 2.07 -6.01	28.98 1.64 -5.54	24.63 0.87 -12.12
GLENWOOD_IC_2_G1 23688	22.83 0.48 -15.15	20.39 0.47 -12.84	18.09 0.47 -10.42	18.77 0.48 -11.10	17.36 0.48 -9.68	20.19 0.53 -11.62	25.88 0.61 -16.02	28.35 0.78 -15.70	25.32 1.07 -9.38	25.00 1.14 -8.51	25.65 1.37 -5.48	25.78 1.48 -4.84	26.11 1.51 -4.25	26.63 1.74 -3.21	28.01 1.72 -4.84	30.34 1.84 -5.24	34.41 2.00 -6.05	42.19 2.14 -11.82	45.41 2.08 -15.65	41.18 2.22 -8.55	42.17 1.97 -12.78	34.55 1.99 -6.01	28.89 1.55 -5.54	24.57 0.81 -12.12
GLENWOOD_IC_3_G1 23689	22.83 0.48 -15.15	20.39 0.47 -12.84	18.09 0.47 -10.42	18.77 0.48 -11.10	17.36 0.48 -9.68	20.19 0.53 -11.62	25.88 0.61 -16.02	28.35 0.78 -15.70	25.32 1.07 -9.38	25.00 1.14 -8.51	25.65 1.37 -5.48	25.78 1.48 -4.84	26.11 1.51 -4.25	26.63 1.74 -3.21	28.01 1.72 -4.84	30.34 1.84 -5.24	34.41 2.00 -6.05	42.19 2.14 -11.82	45.41 2.08 -15.65	41.18 2.22 -8.55	42.17 1.97 -12.78	34.55 1.99 -6.01	28.89 1.55 -5.54	24.57 0.81 -12.12
GLENWOOD___4 23550	22.87 0.52 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.40 0.51 -9.68	20.23 0.57 -11.62	25.94 0.67 -16.02	28.41 0.84 -15.70	25.40 1.15 -9.38	25.09 1.23 -8.51	25.77 1.49 -5.48	25.88 1.58 -4.84	26.21 1.61 -4.25	26.76 1.86 -3.21	28.14 1.85 -4.84	30.48 1.98 -5.24	34.46 2.06 -6.05	42.24 2.20 -11.82	45.49 2.16 -15.65	41.27 2.31 -8.55	42.25 2.06 -12.78	34.65 2.10 -6.01	28.98 1.64 -5.54	24.63 0.87 -12.12
GLENWOOD___5 23614	22.87 0.52 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.40 0.51 -9.68	20.23 0.57 -11.62	25.94 0.67 -16.02	28.41 0.84 -15.70	25.40 1.15 -9.38	25.09 1.23 -8.51	25.77 1.49 -5.48	25.88 1.58 -4.84	26.21 1.61 -4.25	26.76 1.86 -3.21	28.14 1.85 -4.84	30.48 1.98 -5.24	34.46 2.06 -6.05	42.24 2.20 -11.82	45.49 2.16 -15.65	41.27 2.31 -8.55	42.25 2.06 -12.78	34.65 2.10 -6.01	28.98 1.64 -5.54	24.63 0.87 -12.12
GLOBAL GREEN_PORT_GT1 23814	23.03 0.68 -15.15	20.61 0.70 -12.84	18.33 0.71 -10.42	19.01 0.71 -11.10	17.62 0.73 -9.68	20.45 0.79 -11.62	26.13 0.86 -16.02	28.60 1.03 -15.70	25.57 1.32 -9.38	25.33 1.47 -8.51	25.84 1.56 -5.48	26.03 1.73 -4.84	26.33 1.73 -4.25	27.17 2.28 -3.21	28.55 2.25 -4.84	30.99 2.49 -5.24	35.28 2.87 -6.05	43.03 2.99 -11.82	46.21 2.88 -15.65	42.18 3.22 -8.55	42.99 2.80 -12.78	35.37 2.81 -6.01	29.37 2.03 -5.54	24.82 1.06 -12.12
GLOBE___DSASP 323697	9.42 -0.11 -2.32	9.03 -0.17 -2.12	8.89 -0.13 -1.82	8.63 -0.11 -1.54	8.81 -0.07 -1.68	9.90 -0.14 -2.00	11.76 -0.30 -2.80	13.88 -0.74 -2.74	15.55 -0.97 -1.64	15.32 -1.03 -1.00	17.93 -1.35 -0.49	18.32 -1.46 -0.32	19.14 -1.36 -0.15	20.53 -1.23 -0.09	20.55 -1.14 -0.23	21.98 -1.30 -0.02	24.80 -1.58 -0.03	26.77 -1.92 -0.47	26.83 -1.96 -1.11	28.98 -2.07 -0.64	26.72 -1.70 -1.01	25.96 -1.33 -0.74	21.39 -0.72 -0.31	13.38 -0.14 -1.88
GOETHSLN___LBMP 323567	20.93 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.46 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.84 0.57 -16.02	28.31 0.75 -15.69	25.30 1.06 -9.38	22.36 1.12 -5.89	23.04 1.37 -2.86	22.81 1.46 -1.89	22.70 1.49 -0.86	23.83 1.63 -0.53	24.42 1.61 -1.36	25.08 1.70 -0.12	28.36 1.84 -0.16	32.90 1.89 -2.79	36.07 1.83 -6.56	36.59 1.95 -4.23	35.83 1.73 -6.69	32.68 1.78 -4.36	25.00 1.37 -1.83	23.56 0.77 -11.15
GOLAH___69_KV_TB 1_2 80279	9.23 0.17 -1.85	8.85 0.08 -1.69	8.75 0.10 -1.45	8.55 0.12 -1.23	8.69 0.14 -1.34	9.81 0.17 -1.59	11.59 0.11 -2.23	14.03 -0.02 -2.19	16.08 -0.10 -1.31	16.00 -0.15 -0.80	18.91 -0.28 -0.39	19.41 -0.31 -0.25	20.18 -0.28 -0.12	21.60 -0.15 -0.07	21.51 -0.13 -0.18	23.07 -0.21 -0.02	26.11 -0.26 -0.02	28.20 -0.40 -0.38	28.18 -0.39 -0.89	30.54 -0.36 -0.49	27.99 -0.19 -0.77	27.22 0.08 -0.59	22.36 0.31 -0.25	13.49 0.34 -1.51
GOODYEAR_LAKE_HYD 323669	10.79 0.28 -3.30	10.35 0.25 -3.02	10.05 0.26 -2.59	9.67 0.27 -2.19	9.88 0.28 -2.39	11.24 0.35 -2.84	13.65 0.42 -3.98	16.25 0.47 -3.90	17.83 0.57 -2.40	17.52 0.46 -1.71	20.23 0.60 -0.83	20.66 0.66 -0.53	21.29 0.69 -0.24	22.63 0.80 -0.15	22.63 0.79 -0.39	24.18 0.88 -0.03	27.43 1.03 -0.05	30.17 1.16 -0.79	30.67 1.13 -1.85	37.29 1.31 -5.57	37.39 1.18 -8.80	28.87 1.09 -1.23	23.19 0.87 -0.52	15.27 0.48 -3.15
GOUDEY_115_KV_TB6_REV_LBMP_C 345031	11.81 0.14 -4.46	11.26 0.11 -4.08	10.83 0.13 -3.50	10.30 0.14 -2.96	10.58 0.15 -3.22	12.06 0.17 -3.84	14.81 0.18 -5.38	17.26 0.12 -5.27	18.14 0.12 -3.15	17.37 0.12 -1.90	19.89 0.17 -0.92	20.26 0.19 -0.61	20.85 0.22 -0.28	22.20 0.35 -0.17	22.28 0.39 -0.44	23.81 0.51 -0.04	26.91 0.50 -0.05	29.63 0.51 -0.90	30.23 0.44 -2.11	32.38 0.64 -1.33	30.11 0.60 -2.10	28.45 0.50 -1.40	22.89 0.50 -0.59	15.57 0.34 -3.59
GOUDEY___7 23579	11.82 0.15 -4.46	11.27 0.12 -4.08	10.83 0.14 -3.50	10.30 0.14 -2.96	10.59 0.16 -3.22	12.06 0.18 -3.84	14.81 0.19 -5.38	17.27 0.13 -5.27	18.16 0.13 -3.15	17.39 0.14 -1.90	19.91 0.19 -0.92	20.28 0.21 -0.61	20.87 0.24 -0.28	22.22 0.37 -0.17	22.30 0.41 -0.44	23.86 0.56 -0.04	26.93 0.53 -0.05	29.66 0.54 -0.90	30.26 0.47 -2.11	32.41 0.67 -1.33	30.14 0.63 -2.10	28.48 0.53 -1.40	22.91 0.52 -0.59	15.58 0.35 -3.59
GOUDEY___8 23580	11.81 0.14 -4.46	11.26 0.11 -4.08	10.83 0.13 -3.50	10.30 0.14 -2.96	10.58 0.15 -3.22	12.06 0.17 -3.84	14.81 0.18 -5.38	17.26 0.12 -5.27	18.14 0.12 -3.15	17.37 0.12 -1.90	19.89 0.17 -0.92	20.26 0.19 -0.61	20.85 0.22 -0.28	22.20 0.35 -0.17	22.28 0.39 -0.44	23.81 0.51 -0.04	26.91 0.50 -0.05	29.63 0.51 -0.90	30.23 0.44 -2.11	32.38 0.64 -1.33	30.11 0.60 -2.10	28.45 0.50 -1.40	22.89 0.50 -0.59	15.57 0.34 -3.59
GOWANUS_GT1_1 24077	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT1_2 24078	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16



GOWANUS_GT1_3 24079	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT1_4 24080	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT1_5 24084	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT1_6 24111	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT1_7 24112	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT1_8 24113	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_1 24114	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_2 24115	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_3 24116	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_4 24117	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_5 24118	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_6 24119	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_7 24120	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT2_8 24121	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT3_1 24122	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16



GOWANUS_GT3_2 24123	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT3_3 24124	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT3_4 24125	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT3_5 24126	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT3_6 24127	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT3_7 24128	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT3_8 24129	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_1 24130	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_2 24131	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_3 24132	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_4 24133	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_5 24134	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_6 24135	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_7 24136	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
GOWANUS_GT4_8 24137	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16



GREENBSH_115KV_TB3 55895	23.92 0.30 -16.42	22.38 0.28 -15.03	20.38 0.30 -12.89	18.40 0.30 -10.91	19.38 0.30 -11.88	22.52 0.33 -14.15	29.44 0.37 -19.81	31.74 0.45 -19.42	27.06 0.59 -11.60	23.21 0.58 -7.28	23.06 0.71 -3.54	22.53 0.74 -2.33	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.44 1.02 -0.15	27.74 1.19 -0.20	32.92 1.24 -3.45	37.01 1.22 -8.11	40.07 1.37 -8.29	41.75 1.23 -13.10	33.21 1.27 -5.39	25.18 1.11 -2.26	25.97 0.54 -13.79
GREENDGE_115KV_TB5 80291	10.99 0.40 -3.38	10.52 0.35 -3.10	10.24 0.39 -2.65	9.84 0.40 -2.25	10.07 0.42 -2.45	11.47 0.51 -2.91	13.92 0.58 -4.08	16.43 0.56 -4.00	17.87 0.59 -2.40	17.36 0.55 -1.45	20.24 0.73 -0.71	20.77 0.84 -0.47	21.40 0.83 -0.21	22.92 1.11 -0.13	22.97 1.18 -0.34	24.81 1.51 -0.03	27.37 0.98 -0.04	29.96 1.04 -0.70	30.29 0.97 -1.64	32.76 1.34 -1.01	30.26 1.26 -1.59	28.57 0.93 -1.09	23.13 0.87 -0.46	15.01 0.58 -2.79
GREENIDGE___3 23582	10.99 0.40 -3.38	10.52 0.35 -3.10	10.24 0.39 -2.65	9.84 0.40 -2.25	10.07 0.42 -2.45	11.47 0.51 -2.91	13.92 0.58 -4.08	16.43 0.56 -4.00	17.87 0.59 -2.40	17.36 0.55 -1.45	20.24 0.73 -0.71	20.77 0.84 -0.47	21.40 0.83 -0.21	22.92 1.11 -0.13	22.97 1.18 -0.34	24.81 1.51 -0.03	27.37 0.98 -0.04	29.96 1.04 -0.70	30.29 0.97 -1.64	32.76 1.34 -1.01	30.26 1.26 -1.59	28.57 0.93 -1.09	23.13 0.87 -0.46	15.01 0.58 -2.79
GREENIDGE___4 23583	10.99 0.40 -3.38	10.52 0.35 -3.10	10.24 0.39 -2.65	9.85 0.40 -2.25	10.07 0.42 -2.45	11.47 0.51 -2.91	13.93 0.59 -4.08	16.43 0.56 -4.00	17.87 0.60 -2.40	17.36 0.55 -1.45	20.28 0.77 -0.71	20.77 0.84 -0.47	21.46 0.89 -0.21	22.91 1.11 -0.13	22.97 1.18 -0.34	24.80 1.51 -0.03	27.37 0.98 -0.04	29.96 1.04 -0.69	30.27 0.97 -1.62	32.74 1.34 -0.99	30.24 1.26 -1.56	28.57 0.93 -1.09	23.13 0.87 -0.46	15.00 0.57 -2.79
GREENLWN_69_KV_BK 3 55738	22.94 0.58 -15.15	20.49 0.58 -12.84	18.20 0.58 -10.42	18.88 0.58 -11.10	17.47 0.58 -9.68	20.31 0.65 -11.62	26.02 0.75 -16.02	28.51 0.94 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.86 1.58 -5.48	26.00 1.69 -4.84	26.33 1.73 -4.25	26.93 2.04 -3.21	28.31 2.02 -4.84	30.57 2.07 -5.24	34.73 2.32 -6.05	42.50 2.46 -11.82	45.71 2.38 -15.65	41.55 2.59 -8.55	42.50 2.30 -12.78	34.84 2.28 -6.01	29.15 1.81 -5.54	24.75 0.99 -12.12
GREENWD_138_KV_38B11_REV_LBMP_J 345004	21.00 0.51 -13.28	19.72 0.50 -12.16	18.11 0.49 -10.43	16.51 0.49 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.13 1.47 -2.86	22.92 1.58 -1.89	22.85 1.63 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.45 2.26 -5.98	37.30 2.21 -7.40	36.99 2.34 -4.23	36.18 2.08 -6.69	33.00 2.10 -4.36	25.20 1.57 -1.83	23.67 0.87 -11.16
GRISSOM___SOLAR 323813	27.35 0.69 -19.45	25.48 0.61 -17.80	23.10 0.64 -15.26	20.73 0.62 -12.92	21.95 0.68 -14.07	25.60 0.80 -16.75	33.71 0.99 -23.46	36.00 1.14 -22.99	29.91 1.41 -13.62	25.12 1.18 -8.58	24.35 1.37 -4.18	23.73 1.50 -2.77	23.18 1.57 -1.26	23.97 1.52 -0.77	25.03 1.59 -1.99	25.30 1.86 -0.18	28.97 2.37 -0.24	35.26 2.93 -4.11	40.40 3.07 -9.65	46.48 3.50 -12.57	50.49 3.21 -19.87	35.61 2.65 -6.41	26.95 2.46 -2.69	29.15 1.12 -16.39
GROVEVILLE___HYD 323602	20.89 0.42 -13.27	19.62 0.41 -12.14	18.02 0.40 -10.41	16.41 0.40 -8.81	17.21 0.40 -9.60	19.93 0.45 -11.43	25.78 0.52 -16.01	28.20 0.64 -15.69	25.15 0.91 -9.37	22.19 0.95 -5.88	22.83 1.17 -2.86	22.57 1.23 -1.88	22.47 1.26 -0.86	23.64 1.43 -0.53	24.23 1.42 -1.36	24.97 1.58 -0.12	28.23 1.71 -0.16	32.90 1.89 -2.79	36.06 1.83 -6.56	36.54 1.86 -4.27	35.89 1.73 -6.75	32.58 1.67 -4.36	24.94 1.31 -1.83	23.45 0.66 -11.14
GRS_LOCK_115KV_LINE_2_SOLVAY 80269	8.80 -0.01 -1.60	8.50 -0.04 -1.46	8.43 -0.02 -1.25	8.24 -0.02 -1.06	8.35 -0.01 -1.15	9.43 0.01 -1.38	11.18 0.00 -1.93	13.69 -0.07 -1.89	15.90 -0.10 -1.13	15.92 -0.12 -0.69	19.02 -0.11 -0.33	19.59 -0.10 -0.22	20.37 -0.08 -0.10	21.68 -0.07 -0.06	21.57 -0.04 -0.16	23.28 0.00 -0.01	26.35 -0.03 -0.02	28.49 -0.06 -0.33	28.34 -0.11 -0.77	30.70 -0.12 -0.40	27.99 -0.05 -0.64	26.98 -0.08 -0.51	22.02 0.00 -0.21	13.03 0.08 -1.30
HAMLTNNY_34_KV_TB 80303	8.88 0.00 -1.67	8.58 -0.02 -1.53	8.51 -0.01 -1.31	8.30 -0.01 -1.11	8.42 0.00 -1.21	9.51 0.02 -1.44	11.30 0.03 -2.02	13.81 -0.04 -1.98	15.97 -0.09 -1.18	15.97 -0.11 -0.72	19.06 -0.09 -0.35	19.64 -0.06 -0.23	20.40 -0.06 -0.10	21.77 0.02 -0.06	21.66 0.04 -0.17	23.35 0.07 -0.01	26.43 0.05 -0.02	28.59 0.03 -0.34	28.46 -0.03 -0.80	30.81 -0.03 -0.43	28.12 0.03 -0.68	27.08 0.00 -0.53	22.09 0.07 -0.22	13.12 0.12 -1.37
HAMPSHIRE___PAPER_HYD 323593	7.59 -0.06 -0.45	7.43 -0.06 -0.41	7.49 -0.06 -0.35	7.45 -0.05 -0.30	7.50 -0.04 -0.32	8.42 -0.02 -0.39	9.81 0.02 -0.54	12.42 0.02 -0.53	15.10 -0.09 -0.32	15.42 -0.12 -0.19	18.74 -0.15 -0.09	19.33 -0.19 -0.06	20.16 -0.22 -0.03	21.31 -0.39 -0.02	20.96 -0.54 -0.04	22.69 -0.58 0.00	25.86 -0.50 -0.01	27.89 -0.42 -0.09	27.56 -0.33 -0.22	30.14 -0.27 0.00	27.22 -0.19 0.00	26.51 -0.18 -0.14	21.73 -0.13 -0.06	11.94 -0.07 -0.37
HARDSCRABBLE_WT_PWR 323673	7.26 0.05 0.00	7.11 0.04 0.00	7.22 0.02 0.00	7.22 0.02 0.00	7.23 0.02 0.00	8.10 0.05 0.00	9.33 0.07 0.00	11.95 0.08 0.00	14.98 0.10 0.00	15.47 0.12 0.00	18.99 0.19 0.00	19.72 0.25 0.00	20.62 0.26 0.00	21.81 0.13 0.00	21.61 0.15 0.00	23.43 0.16 0.00	26.57 0.21 0.00	28.45 0.22 0.00	27.90 0.22 0.00	30.66 0.24 0.00	27.58 0.17 0.00	26.68 0.13 0.00	22.02 0.22 0.00	11.73 0.09 0.00
HARRIMAN_69_KV_BK771_REV_LBMP_G 345025	20.03 0.39 -12.43	18.83 0.38 -11.38	17.33 0.37 -9.76	15.83 0.37 -8.26	16.57 0.37 -8.99	19.17 0.42 -10.71	24.74 0.49 -15.00	27.18 0.62 -14.70	24.53 0.88 -8.78	21.80 0.94 -5.51	22.63 1.15 -2.68	22.44 1.21 -1.77	22.40 1.24 -0.80	23.56 1.39 -0.49	24.10 1.37 -1.27	24.89 1.51 -0.11	28.14 1.63 -0.15	32.64 1.81 -2.62	35.57 1.74 -6.14	36.15 1.76 -3.97	35.31 1.62 -6.28	32.20 1.57 -4.08	24.76 1.24 -1.71	22.72 0.64 -10.44
HARSNRAD_115KV_TB1 81005	9.54 0.04 -2.29	9.14 -0.03 -2.10	9.01 0.01 -1.80	8.75 0.03 -1.52	8.95 0.08 -1.66	10.03 0.00 -1.98	11.88 -0.15 -2.78	14.04 -0.55 -2.72	15.77 -0.73 -1.63	15.53 -0.81 -0.99	18.15 -1.13 -0.48	18.63 -1.15 -0.32	19.36 -1.14 -0.14	20.88 -0.89 -0.09	20.91 -0.77 -0.23	22.42 -0.86 -0.02	25.28 -1.11 -0.03	27.33 -1.35 -0.47	27.31 -1.47 -1.10	29.68 -1.37 -0.63	27.26 -1.15 -1.00	26.38 -0.90 -0.73	21.76 -0.35 -0.31	13.51 0.00 -1.87
HARZA MOOSE___RIVER 24016	7.88 0.10 -0.57	7.67 0.08 -0.52	7.72 0.08 -0.45	7.68 0.10 -0.38	7.73 0.12 -0.41	8.71 0.17 -0.49	10.16 0.22 -0.69	12.78 0.24 -0.67	15.47 0.19 -0.40	15.75 0.15 -0.25	19.16 0.24 -0.12	19.79 0.25 -0.08	20.65 0.26 -0.04	21.92 0.22 -0.02	21.68 0.17 -0.06	23.46 0.19 -0.01	26.73 0.37 -0.01	28.85 0.51 -0.12	28.51 0.55 -0.27	31.14 0.73 0.00	28.04 0.63 0.00	27.23 0.50 -0.18	22.40 0.52 -0.08	12.40 0.29 -0.46



HDSNBRDG_115KV_BRDG_TB1 355580	8.65 -0.04 -1.47	8.36 -0.06 -1.35	8.31 -0.05 -1.16	8.13 -0.05 -0.98	8.24 -0.04 -1.07	9.29 -0.03 -1.27	10.99 -0.04 -1.78	13.49 -0.12 -1.74	15.75 -0.16 -1.04	15.80 -0.18 -0.64	18.90 -0.21 -0.31	19.47 -0.19 -0.20	20.26 -0.18 -0.09	21.58 -0.15 -0.06	21.47 -0.13 -0.15	23.16 -0.12 -0.01	26.21 -0.16 -0.02	28.33 -0.20 -0.30	28.14 -0.25 -0.71	30.54 -0.24 -0.36	27.79 -0.19 -0.58	26.81 -0.21 -0.47	21.91 -0.09 -0.20	12.88 0.03 -1.21
HELLGATE_13_KV_LD 55870	20.99 0.50 -13.28	19.72 0.50 -12.16	18.12 0.50 -10.43	16.53 0.50 -8.82	17.31 0.50 -9.61	20.02 0.54 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.89 1.54 -1.89	22.81 1.59 -0.86	27.32 1.78 -3.86	25.84 1.76 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.19 2.10 -7.40	36.87 2.22 -4.23	36.07 1.97 -6.69	32.90 1.99 -4.36	25.14 1.50 -1.83	23.65 0.85 -11.16
HELLGT_W_13_KV_BRUCKNER_REV_LBMP_J 345018	20.99 0.50 -13.28	19.72 0.50 -12.16	18.12 0.50 -10.43	16.53 0.50 -8.82	17.31 0.50 -9.61	20.02 0.54 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.89 1.54 -1.89	22.81 1.59 -0.86	27.32 1.78 -3.86	25.84 1.76 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.19 2.10 -7.40	36.87 2.22 -4.23	36.07 1.97 -6.69	32.90 1.99 -4.36	25.14 1.50 -1.83	23.65 0.85 -11.16
HEMPSTEAD____ 23647	22.87 0.51 -15.15	20.41 0.50 -12.84	18.12 0.50 -10.42	18.81 0.51 -11.10	17.40 0.51 -9.68	20.23 0.57 -11.62	25.93 0.66 -16.02	28.40 0.83 -15.70	25.38 1.13 -9.38	25.07 1.21 -8.51	25.69 1.41 -5.48	25.82 1.52 -4.84	26.15 1.55 -4.25	26.73 1.84 -3.21	28.10 1.80 -4.84	30.43 1.93 -5.24	34.49 2.08 -6.05	42.27 2.23 -11.82	45.49 2.16 -15.65	41.30 2.34 -8.55	42.27 2.08 -12.78	34.65 2.10 -6.01	29.00 1.66 -5.54	24.63 0.87 -12.12
HEWLETT__69_KV_BK3 55828	22.96 0.61 -15.15	20.50 0.59 -12.84	18.21 0.59 -10.42	18.89 0.59 -11.10	17.48 0.59 -9.68	20.32 0.66 -11.62	26.03 0.76 -16.02	28.53 0.96 -15.70	25.54 1.29 -9.38	25.24 1.38 -8.51	25.90 1.62 -5.48	26.04 1.73 -4.84	26.37 1.77 -4.25	26.91 2.02 -3.21	28.27 1.97 -4.84	30.62 2.12 -5.24	34.81 2.40 -6.05	42.47 2.43 -11.82	45.68 2.35 -15.65	41.49 2.52 -8.55	42.50 2.30 -12.78	34.97 2.42 -6.01	29.24 1.90 -5.54	24.77 1.01 -12.12
HICKLING__1 23621	11.15 0.25 -3.69	10.64 0.19 -3.38	10.32 0.22 -2.90	9.89 0.24 -2.45	10.14 0.26 -2.67	11.52 0.29 -3.18	14.00 0.30 -4.46	16.43 0.19 -4.37	17.80 0.28 -2.64	17.23 0.28 -1.60	19.94 0.36 -0.78	20.40 0.43 -0.51	21.03 0.45 -0.23	22.56 0.74 -0.14	22.62 0.79 -0.37	24.23 0.93 -0.03	27.24 0.84 -0.04	29.79 0.82 -0.75	30.17 0.72 -1.77	32.57 1.06 -1.09	30.15 1.01 -1.73	28.52 0.80 -1.17	23.04 0.74 -0.49	15.16 0.51 -3.00
HICKLING__2 23622	11.15 0.25 -3.69	10.64 0.19 -3.38	10.32 0.22 -2.90	9.89 0.24 -2.45	10.14 0.26 -2.67	11.52 0.29 -3.18	14.00 0.30 -4.46	16.43 0.19 -4.37	17.80 0.28 -2.64	17.23 0.28 -1.60	19.94 0.36 -0.78	20.40 0.43 -0.51	21.03 0.45 -0.23	22.56 0.74 -0.14	22.62 0.79 -0.37	24.23 0.93 -0.03	27.24 0.84 -0.04	29.79 0.82 -0.75	30.17 0.72 -1.77	32.57 1.06 -1.09	30.15 1.01 -1.73	28.52 0.80 -1.17	23.04 0.74 -0.49	15.16 0.51 -3.00
HIGH FALLS__HY 23754	20.59 0.38 -13.00	19.34 0.37 -11.89	17.76 0.36 -10.20	16.19 0.36 -8.63	16.97 0.36 -9.40	19.64 0.40 -11.20	25.40 0.46 -15.68	27.81 0.57 -15.37	24.90 0.85 -9.18	22.01 0.89 -5.76	22.70 1.09 -2.80	22.46 1.15 -1.85	22.39 1.20 -0.84	23.50 1.30 -0.52	23.94 1.16 -1.33	24.68 1.30 -0.12	27.89 1.37 -0.16	32.51 1.55 -2.73	35.63 1.52 -6.42	36.45 1.49 -4.54	36.16 1.56 -7.18	32.30 1.49 -4.27	24.75 1.16 -1.79	23.18 0.62 -10.92
HILLBURN__GT 23639	20.22 0.40 -12.61	19.01 0.39 -11.54	17.49 0.39 -9.90	15.97 0.39 -8.38	16.72 0.39 -9.12	19.35 0.43 -10.87	24.98 0.51 -15.22	27.44 0.65 -14.91	24.69 0.91 -8.91	21.91 0.97 -5.59	22.71 1.19 -2.72	22.52 1.26 -1.79	22.47 1.30 -0.81	23.61 1.43 -0.50	24.14 1.39 -1.29	24.91 1.54 -0.11	28.17 1.66 -0.15	32.65 1.78 -2.65	35.66 1.74 -6.23	36.27 1.82 -4.03	35.39 1.62 -6.37	32.28 1.59 -4.14	24.87 1.33 -1.74	22.91 0.67 -10.60
HILLSIDE_115KV_TB1 80332	11.14 0.14 -3.79	10.64 0.11 -3.47	10.30 0.13 -2.97	9.86 0.14 -2.52	10.11 0.17 -2.74	11.49 0.18 -3.26	13.99 0.17 -4.57	16.38 0.04 -4.48	17.57 0.01 -2.69	16.98 0.00 -1.63	19.59 0.00 -0.79	20.02 0.04 -0.52	20.63 0.04 -0.24	22.06 0.24 -0.15	22.15 0.32 -0.38	23.81 0.51 -0.03	26.74 0.34 -0.05	29.27 0.28 -0.77	29.71 0.22 -1.81	32.02 0.49 -1.12	29.68 0.49 -1.78	28.07 0.32 -1.20	22.70 0.39 -0.51	15.04 0.31 -3.08
HISHELDN_WT_PWR 323625	10.01 0.09 -2.72	9.58 0.02 -2.49	9.39 0.06 -2.14	9.09 0.08 -1.81	9.28 0.11 -1.97	10.46 0.07 -2.34	12.53 0.00 -3.28	14.78 -0.31 -3.22	16.38 -0.42 -1.92	16.06 -0.46 -1.17	18.77 -0.60 -0.57	19.18 -0.66 -0.37	19.97 -0.55 -0.17	21.39 -0.39 -0.10	21.44 -0.28 -0.27	23.08 -0.21 -0.02	26.04 -0.34 -0.03	28.24 -0.54 -0.55	28.37 -0.61 -1.30	30.82 -0.36 -0.77	28.38 -0.25 -1.22	27.16 -0.86 -0.86	22.21 0.04 -0.36	14.02 0.19 -2.19
HOLTSVILLE_IC_1 23690	22.87 0.51 -15.15	20.44 0.53 -12.84	18.14 0.53 -10.42	18.83 0.53 -11.10	17.43 0.54 -9.68	20.26 0.60 -11.62	25.93 0.66 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.06 1.20 -8.51	25.58 1.30 -5.48	25.74 1.44 -4.84	26.05 1.45 -4.25	26.71 1.82 -3.21	28.07 1.78 -4.84	30.41 1.91 -5.24	34.59 2.19 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.42 2.46 -8.55	42.33 2.14 -12.78	34.71 2.15 -6.01	28.96 1.61 -5.54	24.62 0.86 -12.12
HOLTSVILLE_IC_10 23699	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.76 2.44 -15.65	41.64 2.68 -8.55	42.52 2.33 -12.78	34.89 2.34 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
HOLTSVILLE_IC_2 23691	22.87 0.51 -15.15	20.44 0.53 -12.84	18.14 0.53 -10.42	18.83 0.53 -11.10	17.43 0.54 -9.68	20.26 0.60 -11.62	25.93 0.66 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.06 1.20 -8.51	25.58 1.30 -5.48	25.74 1.44 -4.84	26.05 1.45 -4.25	26.71 1.82 -3.21	28.07 1.78 -4.84	30.41 1.91 -5.24	34.59 2.19 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.42 2.46 -8.55	42.33 2.14 -12.78	34.71 2.15 -6.01	28.96 1.61 -5.54	24.62 0.86 -12.12
HOLTSVILLE_IC_3 23692	22.87 0.51 -15.15	20.44 0.53 -12.84	18.14 0.53 -10.42	18.83 0.53 -11.10	17.43 0.54 -9.68	20.26 0.60 -11.62	25.93 0.66 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.06 1.20 -8.51	25.58 1.30 -5.48	25.74 1.44 -4.84	26.05 1.45 -4.25	26.71 1.82 -3.21	28.07 1.78 -4.84	30.41 1.91 -5.24	34.59 2.19 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.42 2.46 -8.55	42.33 2.14 -12.78	34.71 2.15 -6.01	28.96 1.61 -5.54	24.62 0.86 -12.12



HOLTSVILLE_IC_4 23693	22.87 0.51 -15.15	20.44 0.53 -12.84	18.14 0.53 -10.42	18.83 0.53 -11.10	17.43 0.54 -9.68	20.26 0.60 -11.62	25.93 0.66 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.06 1.20 -8.51	25.58 1.30 -5.48	25.74 1.44 -4.84	26.05 1.45 -4.25	26.71 1.82 -3.21	28.07 1.78 -4.84	30.41 1.91 -5.24	34.59 2.19 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.42 2.46 -8.55	42.33 2.14 -12.78	34.71 2.15 -6.01	28.96 1.61 -5.54	24.62 0.86 -12.12
HOLTSVILLE_IC_5 23694	22.87 0.51 -15.15	20.44 0.53 -12.84	18.14 0.53 -10.42	18.83 0.53 -11.10	17.43 0.54 -9.68	20.26 0.60 -11.62	25.93 0.66 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.06 1.20 -8.51	25.58 1.30 -5.48	25.74 1.44 -4.84	26.05 1.45 -4.25	26.71 1.82 -3.21	28.07 1.78 -4.84	30.41 1.91 -5.24	34.59 2.19 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.42 2.46 -8.55	42.33 2.14 -12.78	34.71 2.15 -6.01	28.96 1.61 -5.54	24.62 0.86 -12.12
HOLTSVILLE_IC_6 23695	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.76 2.44 -15.65	41.64 2.68 -8.55	42.52 2.33 -12.78	34.89 2.34 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
HOLTSVILLE_IC_7 23696	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.76 2.44 -15.65	41.64 2.68 -8.55	42.52 2.33 -12.78	34.89 2.34 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
HOLTSVILLE_IC_8 23697	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.76 2.44 -15.65	41.64 2.68 -8.55	42.52 2.33 -12.78	34.89 2.34 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
HOLTSVILLE_IC_9 23698	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.82 1.93 -3.21	28.20 1.91 -4.84	30.55 2.05 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.76 2.44 -15.65	41.64 2.68 -8.55	42.52 2.33 -12.78	34.89 2.34 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
HOMER_HL_115KV_TB2 355744	10.10 0.09 -2.81	9.67 0.03 -2.57	9.47 0.06 -2.20	9.14 0.08 -1.86	9.37 0.13 -2.03	10.58 0.11 -2.42	12.70 0.06 -3.39	15.00 -0.19 -3.32	16.57 -0.28 -1.98	16.24 -0.32 -1.21	18.92 -0.47 -0.59	19.42 -0.43 -0.39	20.10 -0.43 -0.18	21.66 -0.13 -0.11	21.71 -0.02 -0.28	23.80 0.51 -0.02	26.20 -0.18 -0.03	28.46 -0.34 -0.57	28.59 -0.44 -1.35	31.55 0.33 -0.80	29.06 0.38 -1.27	27.23 -0.21 -0.90	22.20 0.02 -0.38	14.07 0.14 -2.29
HOWARD_WT_PWR 323690	10.87 0.56 -3.10	10.40 0.49 -2.84	10.16 0.53 -2.43	9.80 0.55 -2.06	10.01 0.56 -2.24	11.40 0.68 -2.67	13.78 0.79 -3.74	16.30 0.77 -3.66	17.87 0.80 -2.20	17.45 0.77 -1.33	20.52 1.07 -0.65	21.06 1.17 -0.43	21.83 1.28 -0.19	23.27 1.47 -0.12	23.28 1.52 -0.31	25.25 1.95 -0.03	27.13 0.74 -0.04	29.59 0.73 -0.63	29.80 0.64 -1.48	32.31 1.00 -0.90	29.81 0.99 -1.42	28.28 0.72 -1.01	22.97 0.74 -0.43	14.76 0.52 -2.59
HQ_GEN_CEDARS 23644	7.07 -0.14 0.00	6.97 -0.11 0.00	7.08 -0.12 0.00	7.08 -0.12 0.00	7.08 -0.12 0.00	7.90 -0.14 0.00	9.11 -0.14 0.00	11.76 -0.11 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.15 -0.31 0.00	20.01 -0.35 0.00	21.14 -0.54 0.00	20.81 -0.64 0.00	22.57 -0.70 0.00	25.62 -0.74 0.00	27.49 -0.73 0.00	27.07 -0.61 0.00	29.71 -0.70 0.00	26.81 -0.60 0.00	25.91 -0.64 0.00	21.19 -0.61 0.00	11.32 -0.33 0.00
HQ_GEN_CEDARS_PROXY 323590	7.07 -0.14 0.00	6.97 -0.11 0.00	7.08 -0.12 0.00	7.08 -0.12 0.00	7.08 -0.12 0.00	7.90 -0.14 0.00	9.11 -0.14 0.00	11.76 -0.11 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.15 -0.31 0.00	19.99 -0.37 0.00	21.14 -0.54 0.00	20.81 -0.64 0.00	22.57 -0.70 0.00	25.62 -0.74 0.00	27.49 -0.73 0.00	27.07 -0.61 0.00	29.72 -0.70 0.00	26.81 -0.60 0.00	25.91 -0.64 0.00	21.19 -0.61 0.00	11.32 -0.33 0.00
HQ_GEN_IMPORT 323601	7.07 -0.14 0.00	6.95 -0.12 0.00	7.07 -0.13 0.00	7.07 -0.13 0.00	7.07 -0.14 0.00	7.89 -0.16 0.00	9.08 -0.18 0.00	11.69 -0.18 0.00	14.63 -0.24 0.00	15.12 -0.23 0.00	18.50 -0.30 0.00	19.13 -0.33 0.00	19.99 -0.37 0.00	21.22 -0.46 0.00	20.98 -0.47 0.00	22.75 -0.51 0.00	25.80 -0.55 0.00	27.66 -0.56 0.00	27.15 -0.53 0.00	29.81 -0.61 0.00	26.86 -0.55 0.00	25.99 -0.56 0.00	21.28 -0.52 0.00	11.35 -0.29 0.00
HQ_GEN_WHEEL 23651	7.07 -0.14 0.00	6.95 -0.12 0.00	7.07 -0.13 0.00	7.07 -0.13 0.00	7.07 -0.14 0.00	7.89 -0.16 0.00	9.08 -0.18 0.00	11.69 -0.18 0.00	14.63 -0.24 0.00	15.12 -0.23 0.00	18.50 -0.30 0.00	19.13 -0.33 0.00	19.99 -0.37 0.00	21.22 -0.46 0.00	20.98 -0.47 0.00	22.75 -0.51 0.00	25.80 -0.55 0.00	27.66 -0.56 0.00	27.15 -0.53 0.00	29.81 -0.61 0.00	26.86 -0.55 0.00	25.99 -0.56 0.00	21.28 -0.52 0.00	11.35 -0.29 0.00
HUDSON_AVE_GT_3 23810	20.95 0.47 -13.27	19.68 0.46 -12.15	18.08 0.46 -10.42	16.48 0.46 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.86 0.59 -16.02	28.33 0.77 -15.69	25.32 1.07 -9.38	22.39 1.15 -5.89	23.06 1.39 -2.86	22.83 1.48 -1.89	22.72 1.51 -0.86	23.92 1.71 -0.53	24.49 1.67 -1.36	25.18 1.79 -0.12	28.47 1.95 -0.16	33.07 2.06 -2.79	36.26 2.02 -6.56	36.77 2.13 -4.23	35.99 1.89 -6.69	32.82 1.91 -4.36	25.13 1.50 -1.83	23.58 0.79 -11.15
HUDSON_AVE_GT_4 23540	20.95 0.47 -13.27	19.68 0.46 -12.15	18.08 0.46 -10.42	16.48 0.46 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.86 0.59 -16.02	28.33 0.77 -15.69	25.32 1.07 -9.38	22.39 1.15 -5.89	23.06 1.39 -2.86	22.83 1.48 -1.89	22.72 1.51 -0.86	23.92 1.71 -0.53	24.49 1.67 -1.36	25.18 1.79 -0.12	28.47 1.95 -0.16	33.07 2.06 -2.79	36.26 2.02 -6.56	36.77 2.13 -4.23	35.99 1.89 -6.69	32.82 1.91 -4.36	25.13 1.50 -1.83	23.58 0.79 -11.15
HUDSON_AVE_GT_5 23657	20.95 0.47 -13.27	19.68 0.46 -12.15	18.08 0.46 -10.42	16.48 0.46 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.86 0.59 -16.02	28.33 0.77 -15.69	25.32 1.07 -9.38	22.39 1.15 -5.89	23.06 1.39 -2.86	22.83 1.48 -1.89	22.72 1.51 -0.86	23.92 1.71 -0.53	24.49 1.67 -1.36	25.18 1.79 -0.12	28.47 1.95 -0.16	33.07 2.06 -2.79	36.26 2.02 -6.56	36.77 2.13 -4.23	35.99 1.89 -6.69	32.82 1.91 -4.36	25.13 1.50 -1.83	23.58 0.79 -11.15



HUDSON_AVE_10 24168	20.93 0.45 -13.27	19.66 0.44 -12.15	18.06 0.44 -10.42	16.45 0.44 -8.82	17.24 0.43 -9.60	19.96 0.48 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.69	25.29 1.04 -9.38	22.38 1.14 -5.89	23.02 1.35 -2.86	22.79 1.44 -1.89	22.70 1.49 -0.86	23.88 1.67 -0.53	24.44 1.63 -1.36	25.13 1.74 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.21 1.97 -6.56	36.71 2.07 -4.23	35.94 1.84 -6.69	32.76 1.86 -4.36	25.05 1.42 -1.83	23.56 0.77 -11.15
HUDSON___115KV_TB 4 355613	23.54 0.36 -15.98	22.03 0.33 -14.62	20.08 0.35 -12.54	18.15 0.34 -10.61	19.12 0.35 -11.56	22.20 0.39 -13.76	28.98 0.45 -19.28	31.30 0.55 -18.89	26.87 0.71 -11.28	23.09 0.66 -7.08	23.02 0.77 -3.45	22.51 0.78 -2.27	22.22 0.83 -1.03	23.31 1.00 -0.63	24.12 1.03 -1.63	24.64 1.23 -0.14	27.95 1.40 -0.20	33.13 1.55 -3.36	37.12 1.55 -7.89	39.59 1.73 -7.45	40.77 1.59 -11.77	33.33 1.54 -5.24	25.29 1.29 -2.20	25.65 0.59 -13.42
HUNTER MOUNT___DRP 323613	23.05 0.36 -15.48	21.57 0.33 -14.17	19.69 0.34 -12.15	17.81 0.33 -10.28	18.75 0.35 -11.20	21.77 0.39 -13.33	28.37 0.44 -18.67	30.69 0.52 -18.30	26.52 0.71 -10.93	22.84 0.63 -6.86	22.85 0.71 -3.34	22.38 0.72 -2.20	22.11 0.75 -1.00	23.23 0.93 -0.61	24.02 0.99 -1.58	24.66 1.26 -0.14	27.92 1.37 -0.19	33.03 1.55 -3.26	36.88 1.55 -7.65	38.94 1.70 -6.82	39.79 1.59 -10.79	33.14 1.51 -5.08	25.20 1.26 -2.13	25.20 0.56 -13.00
HUNTINGTON_RES_REC 323705	22.92 0.56 -15.15	20.48 0.57 -12.84	18.18 0.56 -10.42	18.87 0.57 -11.10	17.47 0.58 -9.68	20.30 0.64 -11.62	25.98 0.71 -16.02	28.46 0.89 -15.70	25.45 1.20 -9.38	25.16 1.30 -8.51	25.75 1.47 -5.48	25.90 1.60 -4.84	26.23 1.63 -4.25	26.93 2.04 -3.21	28.29 2.00 -4.84	30.60 2.09 -5.24	34.81 2.40 -6.05	42.58 2.54 -11.82	45.82 2.49 -15.65	41.70 2.74 -8.55	42.57 2.38 -12.78	34.92 2.36 -6.01	29.13 1.79 -5.54	24.71 0.95 -12.12
HUNTLEY___63 23557	9.67 0.09 -2.37	9.26 0.01 -2.17	9.13 0.06 -1.86	8.85 0.08 -1.58	9.05 0.13 -1.72	10.17 0.07 -2.05	12.07 -0.05 -2.87	14.28 -0.40 -2.81	16.00 -0.55 -1.68	15.78 -0.60 -1.02	18.41 -0.88 -0.50	18.90 -0.90 -0.33	19.61 -0.90 -0.15	21.16 -0.61 -0.09	21.20 -0.49 -0.24	22.73 -0.56 -0.02	25.59 -0.79 -0.03	27.69 -1.02 -0.48	27.71 -1.11 -1.14	30.10 -0.97 -0.66	27.68 -0.77 -1.04	26.69 -0.61 -0.76	22.01 -0.11 -0.32	13.70 0.13 -1.93
HUNTLEY___64 23558	9.67 0.09 -2.37	9.26 0.01 -2.17	9.13 0.06 -1.86	8.85 0.08 -1.58	9.05 0.13 -1.72	10.17 0.07 -2.05	12.07 -0.05 -2.87	14.28 -0.40 -2.81	16.00 -0.55 -1.68	15.78 -0.60 -1.02	18.41 -0.88 -0.50	18.90 -0.90 -0.33	19.61 -0.90 -0.15	21.16 -0.61 -0.09	21.20 -0.49 -0.24	22.73 -0.56 -0.02	25.59 -0.79 -0.03	27.69 -1.02 -0.48	27.71 -1.11 -1.14	30.10 -0.97 -0.66	27.68 -0.77 -1.04	26.69 -0.61 -0.76	22.01 -0.11 -0.32	13.70 0.13 -1.93
HUNTLEY___65 23559	9.67 0.09 -2.37	9.26 0.01 -2.17	9.13 0.06 -1.86	8.85 0.08 -1.58	9.05 0.13 -1.72	10.17 0.07 -2.05	12.07 -0.05 -2.87	14.28 -0.40 -2.81	16.00 -0.55 -1.68	15.78 -0.60 -1.02	18.41 -0.88 -0.50	18.90 -0.90 -0.33	19.61 -0.90 -0.15	21.16 -0.61 -0.09	21.20 -0.49 -0.24	22.73 -0.56 -0.02	25.59 -0.79 -0.03	27.69 -1.02 -0.48	27.71 -1.11 -1.14	30.10 -0.97 -0.66	27.68 -0.77 -1.04	26.69 -0.61 -0.76	22.01 -0.11 -0.32	13.70 0.13 -1.93
HUNTLEY___66 23560	9.67 0.09 -2.37	9.26 0.01 -2.17	9.13 0.06 -1.86	8.85 0.08 -1.58	9.05 0.13 -1.72	10.17 0.07 -2.05	12.07 -0.05 -2.87	14.28 -0.40 -2.81	16.00 -0.55 -1.68	15.78 -0.60 -1.02	18.41 -0.88 -0.50	18.90 -0.90 -0.33	19.61 -0.90 -0.15	21.16 -0.61 -0.09	21.20 -0.49 -0.24	22.73 -0.56 -0.02	25.59 -0.79 -0.03	27.69 -1.02 -0.48	27.71 -1.11 -1.14	30.10 -0.97 -0.66	27.68 -0.77 -1.04	26.69 -0.61 -0.76	22.01 -0.11 -0.32	13.70 0.13 -1.93
HUNTLEY___67 23561	9.68 0.05 -2.42	9.26 -0.02 -2.21	9.12 0.02 -1.90	8.84 0.04 -1.61	9.04 0.08 -1.75	10.16 0.03 -2.08	12.11 -0.06 -2.92	14.31 -0.42 -2.86	16.02 -0.57 -1.71	15.76 -0.63 -1.04	18.39 -0.92 -0.51	18.86 -0.93 -0.33	19.57 -0.94 -0.15	21.12 -0.65 -0.09	21.14 -0.56 -0.24	22.70 -0.58 -0.02	25.54 -0.84 -0.03	27.61 -1.10 -0.49	27.67 -1.16 -1.16	30.02 -1.06 -0.67	27.65 -0.82 -1.06	26.65 -0.66 -0.77	21.95 -0.17 -0.32	13.71 0.10 -1.96
HUNTLEY___68 23562	9.68 0.05 -2.42	9.26 -0.02 -2.21	9.12 0.02 -1.90	8.84 0.04 -1.61	9.04 0.08 -1.75	10.16 0.03 -2.08	12.11 -0.06 -2.92	14.31 -0.42 -2.86	16.02 -0.57 -1.71	15.76 -0.63 -1.04	18.39 -0.92 -0.51	18.86 -0.93 -0.33	19.57 -0.94 -0.15	21.12 -0.65 -0.09	21.14 -0.56 -0.24	22.70 -0.58 -0.02	25.54 -0.84 -0.03	27.61 -1.10 -0.49	27.67 -1.16 -1.16	30.02 -1.06 -0.67	27.65 -0.82 -1.06	26.65 -0.66 -0.77	21.95 -0.17 -0.32	13.71 0.10 -1.96
HYLAND___LFGE 323620	10.34 0.60 -2.53	9.89 0.50 -2.32	9.73 0.54 -1.99	9.46 0.58 -1.68	9.63 0.59 -1.83	10.95 0.72 -2.18	13.07 0.77 -3.05	15.54 0.68 -2.99	17.19 0.52 -1.79	16.76 0.32 -1.09	19.80 0.47 -0.53	20.34 0.53 -0.35	21.10 0.59 -0.16	22.54 0.76 -0.10	22.56 0.86 -0.25	24.45 1.16 -0.02	26.65 0.26 -0.03	29.19 0.45 -0.52	29.56 0.66 -1.21	32.22 1.09 -0.71	29.68 1.15 -1.12	28.55 1.17 -0.84	23.24 1.09 -0.35	14.53 0.75 -2.14
INDECK___CORINTH 23802	24.85 0.49 -17.16	23.21 0.44 -15.70	21.12 0.46 -13.46	19.04 0.45 -11.39	20.09 0.48 -12.41	23.37 0.55 -14.78	30.61 0.66 -20.70	32.95 0.80 -20.28	28.02 1.04 -12.11	23.92 0.97 -7.60	23.63 1.13 -3.70	23.11 1.21 -2.44	22.54 1.08 -1.11	23.66 1.30 -0.68	24.52 1.31 -1.76	24.77 1.35 -0.16	27.49 0.92 -0.21	32.82 0.99 -3.61	37.15 1.00 -8.48	44.64 1.16 -13.07	49.14 1.07 -20.66	33.11 0.93 -5.63	25.02 0.85 -2.36	26.37 0.31 -14.41
INDECK___ILION 23567	7.26 0.05 0.00	7.11 0.04 0.00	7.24 0.04 0.00	7.24 0.04 0.00	7.25 0.04 0.00	8.10 0.06 0.00	9.33 0.07 0.00	11.94 0.07 0.00	14.96 0.09 0.00	15.44 0.09 0.00	18.93 0.13 0.00	19.58 0.12 0.00	20.48 0.12 0.00	21.81 0.13 0.00	21.58 0.13 0.00	23.40 0.14 0.00	26.54 0.18 0.00	28.45 0.23 0.00	27.90 0.22 0.00	30.66 0.24 0.00	27.60 0.19 0.00	26.71 0.16 0.00	22.02 0.22 0.00	11.75 0.10 0.00
INDECK___OLEAN 23982	10.10 0.09 -2.81	9.67 0.03 -2.57	9.47 0.06 -2.20	9.15 0.09 -1.86	9.37 0.13 -2.03	10.58 0.11 -2.42	12.71 0.07 -3.39	15.00 -0.19 -3.32	16.57 -0.28 -1.98	16.24 -0.32 -1.21	18.97 -0.41 -0.59	19.42 -0.43 -0.39	20.18 -0.35 -0.18	21.66 -0.13 -0.11	21.71 -0.02 -0.28	23.80 0.51 -0.02	26.21 -0.18 -0.03	28.46 -0.34 -0.57	28.58 -0.44 -1.35	31.55 0.34 -0.80	29.06 0.38 -1.26	27.26 -0.18 -0.90	22.20 0.02 -0.38	14.07 0.14 -2.29
INDECK___OSWEGO 23783	8.39 -0.14 -1.32	8.12 -0.16 -1.21	8.08 -0.15 -1.04	7.94 -0.14 -0.88	8.03 -0.13 -0.95	9.05 -0.14 -1.14	10.69 -0.16 -1.59	13.16 -0.27 -1.56	15.43 -0.37 -0.93	15.51 -0.41 -0.57	18.61 -0.47 -0.28	19.16 -0.49 -0.18	19.97 -0.47 -0.08	21.23 -0.50 -0.05	21.07 -0.52 -0.13	22.74 -0.53 -0.01	25.77 -0.61 -0.02	27.81 -0.68 -0.27	27.62 -0.69 -0.63	29.68 -0.73 0.00	26.78 -0.63 0.00	26.38 -0.58 -0.42	21.59 -0.39 -0.18	12.59 -0.13 -1.08



INDECK___YERKES 23781	9.68 0.10 -2.37	9.27 0.03 -2.17	9.13 0.07 -1.86	8.87 0.09 -1.58	9.06 0.14 -1.72	10.17 0.08 -2.04	12.09 -0.03 -2.86	14.28 -0.39 -2.81	16.02 -0.53 -1.68	15.79 -0.58 -1.02	18.51 -0.79 -0.50	18.91 -0.88 -0.33	19.77 -0.73 -0.15	21.19 -0.58 -0.09	21.22 -0.47 -0.24	22.75 -0.53 -0.02	25.62 -0.77 -0.03	27.72 -0.99 -0.48	27.74 -1.08 -1.14	30.13 -0.94 -0.66	27.74 -0.71 -1.04	26.74 -0.56 -0.76	22.01 -0.11 -0.32	13.71 0.14 -1.93
INDIAN POINT_GT_1 24139	20.74 0.40 -13.14	19.48 0.38 -12.02	17.89 0.38 -10.31	16.31 0.39 -8.72	17.09 0.38 -9.50	19.80 0.43 -11.32	25.61 0.51 -15.85	28.04 0.64 -15.53	25.04 0.89 -9.28	22.11 0.94 -5.83	22.78 1.15 -2.83	22.56 1.23 -1.87	22.46 1.26 -0.85	23.63 1.43 -0.52	24.21 1.42 -1.34	24.92 1.54 -0.12	28.18 1.66 -0.16	32.79 1.81 -2.76	35.92 1.74 -6.49	36.46 1.86 -4.19	35.70 1.67 -6.62	32.51 1.65 -4.31	24.92 1.31 -1.81	23.35 0.67 -11.03
INDIAN POINT_GT_2 23659	20.74 0.40 -13.14	19.48 0.38 -12.02	17.89 0.38 -10.31	16.31 0.39 -8.72	17.09 0.38 -9.50	19.80 0.43 -11.32	25.61 0.51 -15.85	28.04 0.64 -15.53	25.04 0.89 -9.28	22.11 0.94 -5.83	22.78 1.15 -2.83	22.56 1.23 -1.87	22.46 1.26 -0.85	23.63 1.43 -0.52	24.21 1.42 -1.34	24.92 1.54 -0.12	28.18 1.66 -0.16	32.79 1.81 -2.76	35.92 1.74 -6.49	36.46 1.86 -4.19	35.70 1.67 -6.62	32.51 1.65 -4.31	24.92 1.31 -1.81	23.35 0.67 -11.03
INDIAN POINT_GT_3 24019	20.74 0.40 -13.14	19.48 0.38 -12.02	17.89 0.38 -10.31	16.31 0.39 -8.72	17.09 0.38 -9.50	19.80 0.43 -11.32	25.61 0.51 -15.85	28.04 0.64 -15.53	25.04 0.89 -9.28	22.11 0.94 -5.83	22.78 1.15 -2.83	22.56 1.23 -1.87	22.46 1.26 -0.85	23.63 1.43 -0.52	24.21 1.42 -1.34	24.92 1.54 -0.12	28.18 1.66 -0.16	32.79 1.81 -2.76	35.92 1.74 -6.49	36.46 1.86 -4.19	35.70 1.67 -6.62	32.51 1.65 -4.31	24.92 1.31 -1.81	23.35 0.67 -11.03
INDIAN POINT___2 23530	20.54 0.39 -12.95	19.31 0.39 -11.85	17.74 0.38 -10.16	16.19 0.39 -8.60	16.96 0.39 -9.37	19.63 0.43 -11.15	25.37 0.50 -15.62	27.82 0.64 -15.31	24.91 0.89 -9.15	22.05 0.95 -5.74	22.74 1.15 -2.79	22.53 1.23 -1.84	22.45 1.26 -0.84	23.65 1.45 -0.51	24.19 1.42 -1.33	24.92 1.54 -0.12	28.18 1.66 -0.16	32.75 1.81 -2.72	35.82 1.74 -6.40	36.40 1.86 -4.13	35.58 1.64 -6.53	32.44 1.65 -4.25	24.87 1.29 -1.78	23.19 0.67 -10.87
INDIAN POINT___3 23531	20.74 0.39 -13.14	19.48 0.38 -12.03	17.90 0.38 -10.32	16.32 0.39 -8.73	17.10 0.39 -9.51	19.80 0.43 -11.32	25.61 0.50 -15.86	28.05 0.64 -15.54	25.03 0.88 -9.28	22.12 0.94 -5.83	22.80 1.17 -2.84	22.56 1.23 -1.87	22.46 1.26 -0.85	23.63 1.43 -0.52	24.22 1.42 -1.35	24.92 1.54 -0.12	28.18 1.66 -0.16	32.76 1.78 -2.77	35.89 1.72 -6.50	36.43 1.82 -4.19	35.68 1.64 -6.63	32.51 1.65 -4.32	24.88 1.26 -1.81	23.34 0.66 -11.04
INGHAM_C_115KV_TB7 356103	7.26 0.06 0.00	7.11 0.04 0.00	7.23 0.03 0.00	7.23 0.03 0.00	7.24 0.03 0.00	8.10 0.06 0.00	9.34 0.08 0.00	11.95 0.08 0.00	14.98 0.10 0.00	15.46 0.11 0.00	18.97 0.17 0.00	19.72 0.25 0.00	20.60 0.24 0.00	21.79 0.11 0.00	21.56 0.11 0.00	23.40 0.14 0.00	26.51 0.16 0.00	28.42 0.20 0.00	27.87 0.19 0.00	30.63 0.21 0.00	27.55 0.14 0.00	26.68 0.13 0.00	22.02 0.22 0.00	11.75 0.10 0.00
IP CORINTH___1 23988	24.85 0.49 -17.16	23.21 0.44 -15.70	21.12 0.46 -13.46	19.04 0.45 -11.39	20.09 0.48 -12.41	23.37 0.55 -14.78	30.61 0.66 -20.70	32.95 0.80 -20.28	28.02 1.04 -12.11	23.92 0.97 -7.60	23.63 1.13 -3.70	23.11 1.21 -2.44	22.56 1.10 -1.11	23.66 1.30 -0.68	24.52 1.31 -1.76	24.77 1.35 -0.16	27.62 1.05 -0.21	32.96 1.13 -3.61	37.32 1.16 -8.48	44.79 1.34 -13.04	49.24 1.21 -20.62	33.27 1.09 -5.63	25.15 0.98 -2.36	26.44 0.38 -14.41
IP___TICONDEROGA 23804	25.11 0.77 -17.13	23.43 0.68 -15.68	21.36 0.72 -13.44	19.26 0.68 -11.38	20.34 0.74 -12.39	23.66 0.86 -14.76	30.96 1.05 -20.67	33.39 1.27 -20.25	28.59 1.62 -12.09	24.39 1.44 -7.59	24.17 1.67 -3.69	23.73 1.83 -2.43	23.23 1.77 -1.11	24.40 2.04 -0.68	25.27 2.06 -1.75	25.65 2.23 -0.16	28.83 2.27 -0.21	34.34 2.51 -3.60	38.69 2.55 -8.47	46.34 2.98 -12.94	50.59 2.71 -20.46	34.53 2.36 -5.63	26.15 1.98 -2.36	26.88 0.85 -14.39
ISLIP_RES_REC 323679	22.92 0.56 -15.15	20.49 0.58 -12.84	18.20 0.58 -10.42	18.88 0.58 -11.10	17.48 0.59 -9.68	20.31 0.65 -11.62	25.99 0.72 -16.02	28.46 0.89 -15.70	25.44 1.19 -9.38	25.16 1.30 -8.51	25.71 1.43 -5.48	25.88 1.58 -4.84	26.19 1.59 -4.25	26.93 2.04 -3.21	28.29 2.00 -4.84	30.67 2.16 -5.24	34.94 2.53 -6.05	42.73 2.68 -11.82	45.93 2.60 -15.65	41.82 2.86 -8.55	42.68 2.49 -12.78	35.03 2.47 -6.01	29.13 1.79 -5.54	24.70 0.94 -12.12
JAMAICA__27_KV_LOAD 355505	20.92 0.44 -13.27	19.64 0.42 -12.15	18.04 0.42 -10.42	16.43 0.42 -8.82	17.23 0.42 -9.60	19.96 0.47 -11.43	25.87 0.60 -16.02	28.35 0.78 -15.69	25.32 1.07 -9.38	22.45 1.21 -5.89	23.04 1.37 -2.86	22.83 1.48 -1.89	22.72 1.51 -0.86	23.94 1.73 -0.53	24.46 1.65 -1.36	25.20 1.81 -0.12	28.52 2.00 -0.16	33.13 2.12 -2.79	36.32 2.08 -6.56	36.80 2.16 -4.23	36.02 1.92 -6.69	32.79 1.88 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
JANIS___SOLAR 323808	11.32 0.33 -3.78	10.82 0.29 -3.46	10.47 0.30 -2.97	10.04 0.32 -2.51	10.29 0.35 -2.74	11.74 0.43 -3.26	14.33 0.52 -4.56	16.83 0.49 -4.47	17.95 0.40 -2.68	17.20 0.32 -1.52	20.03 0.49 -0.74	20.49 0.54 -0.49	21.21 0.63 -0.22	22.51 0.69 -0.14	22.54 0.73 -0.35	24.20 0.91 -0.03	27.56 1.16 -0.04	30.44 1.49 -0.72	30.95 1.58 -1.70	33.43 1.98 -1.04	30.87 1.81 -1.65	29.19 1.51 -1.13	23.56 1.29 -0.47	15.28 0.76 -2.88
JARVIS____ 23743	7.23 0.02 0.00	7.09 0.02 0.00	7.22 0.02 0.00	7.22 0.02 0.00	7.23 0.02 0.00	8.08 0.03 0.00	9.29 0.04 0.00	11.89 0.02 0.00	14.90 0.03 0.00	15.38 0.03 0.00	18.84 0.04 0.00	19.52 0.06 0.00	20.41 0.06 0.00	21.77 0.09 0.00	21.54 0.09 0.00	23.36 0.09 0.00	26.46 0.11 0.00	28.33 0.11 0.00	27.79 0.11 0.00	30.54 0.12 0.00	27.52 0.11 0.00	26.65 0.11 0.00	21.91 0.11 0.00	11.70 0.06 0.00
JENNISON___1 23625	12.26 0.37 -4.69	11.70 0.33 -4.29	11.22 0.34 -3.68	10.68 0.37 -3.11	10.99 0.39 -3.39	12.57 0.48 -4.04	15.48 0.57 -5.66	18.02 0.61 -5.55	18.81 0.61 -3.33	17.77 0.64 -1.77	20.60 0.94 -0.86	21.06 1.03 -0.57	21.69 1.08 -0.26	23.10 1.26 -0.16	23.11 1.24 -0.41	24.77 1.47 -0.04	28.20 1.79 -0.05	31.18 2.12 -0.84	31.76 2.10 -1.98	34.21 2.55 -1.24	31.61 2.25 -1.95	29.77 1.91 -1.31	24.01 1.66 -0.55	15.93 0.93 -3.36
JENNISON___2 23626	12.26 0.37 -4.69	11.70 0.33 -4.29	11.22 0.34 -3.68	10.68 0.37 -3.11	10.99 0.39 -3.39	12.57 0.48 -4.04	15.48 0.57 -5.66	18.02 0.61 -5.55	18.81 0.61 -3.33	17.77 0.64 -1.77	20.60 0.94 -0.86	21.06 1.03 -0.57	21.69 1.08 -0.26	23.10 1.26 -0.16	23.11 1.24 -0.41	24.77 1.47 -0.04	28.20 1.79 -0.05	31.18 2.12 -0.84	31.76 2.10 -1.98	34.21 2.55 -1.24	31.61 2.25 -1.95	29.77 1.91 -1.31	24.01 1.66 -0.55	15.93 0.93 -3.36



JERICO_RISE_WT_PWR 323719	7.20 -0.01 0.00	7.10 0.03 0.00	7.21 0.01 0.00	7.22 0.02 0.00	7.23 0.02 0.00	8.06 0.02 0.00	9.31 0.06 0.00	12.03 0.17 0.00	14.99 0.12 0.00	15.54 0.18 0.00	18.95 0.15 0.00	19.54 0.08 0.00	20.41 0.06 0.00	21.66 -0.02 0.00	21.39 -0.06 0.00	23.17 -0.09 0.00	26.33 -0.03 0.00	28.31 0.08 0.00	27.87 0.20 0.00	30.60 0.18 0.00	27.52 0.11 0.00	26.36 -0.18 0.00	21.26 -0.54 0.00	11.25 -0.40 0.00
KATONAH__115KV_46KV_TB4 355592	21.06 0.41 -13.44	19.77 0.40 -12.30	18.14 0.39 -10.55	16.53 0.40 -8.93	17.33 0.40 -9.72	20.09 0.47 -11.58	26.02 0.55 -16.22	28.42 0.65 -15.90	25.26 0.89 -9.50	22.25 0.94 -5.96	22.87 1.17 -2.90	22.62 1.25 -1.91	22.50 1.28 -0.87	23.67 1.45 -0.53	24.27 1.44 -1.38	24.97 1.58 -0.12	28.29 1.77 -0.16	32.91 1.86 -2.83	36.18 1.85 -6.64	36.68 1.98 -4.29	35.97 1.78 -6.78	32.71 1.75 -4.41	24.98 1.33 -1.85	23.62 0.69 -11.29
KCE_NY_1 323755	24.72 0.43 -17.09	23.10 0.39 -15.64	21.02 0.40 -13.41	18.95 0.40 -11.35	19.98 0.41 -12.36	23.25 0.47 -14.72	30.43 0.56 -20.62	32.74 0.66 -20.21	27.80 0.86 -12.07	23.74 0.81 -7.58	23.44 0.96 -3.69	22.90 1.01 -2.43	22.45 1.00 -1.10	23.57 1.21 -0.68	24.40 1.20 -1.75	24.74 1.33 -0.16	27.99 1.42 -0.21	33.37 1.55 -3.60	37.65 1.52 -8.45	44.97 1.73 -12.82	49.28 1.59 -20.28	33.67 1.51 -5.61	25.42 1.26 -2.36	26.57 0.57 -14.36
KCE_NY_6_ESR 323823	9.86 0.12 -2.53	9.43 0.05 -2.31	9.28 0.09 -1.98	8.99 0.11 -1.68	9.19 0.16 -1.83	10.34 0.12 -2.18	12.35 0.05 -3.05	14.59 -0.26 -2.99	16.29 -0.37 -1.79	16.03 -0.41 -1.09	18.75 -0.58 -0.53	19.17 -0.64 -0.35	20.00 -0.51 -0.16	21.43 -0.35 -0.10	21.49 -0.21 -0.25	23.15 -0.14 -0.02	25.96 -0.42 -0.03	28.12 -0.62 -0.52	28.20 -0.69 -1.21	30.73 -0.40 -0.71	28.28 -0.25 -1.12	27.03 -0.32 -0.80	22.20 0.07 -0.34	13.90 0.21 -2.05
KEDC_PORT_JEFF_GT2 24210	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.80 1.91 -3.21	28.16 1.87 -4.84	30.53 2.02 -5.24	34.75 2.34 -6.05	42.44 2.40 -11.82	45.65 2.33 -15.65	41.60 2.64 -8.55	42.41 2.22 -12.78	34.84 2.28 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
KEDC_PORT_JEFF_GT3 24211	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.80 1.91 -3.21	28.16 1.87 -4.84	30.53 2.02 -5.24	34.75 2.34 -6.05	42.44 2.40 -11.82	45.65 2.33 -15.65	41.60 2.64 -8.55	42.41 2.22 -12.78	34.84 2.28 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
KEDC_GLWD_GT4 24219	22.87 0.52 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.40 0.51 -9.68	20.23 0.57 -11.62	25.94 0.67 -16.02	28.41 0.84 -15.70	25.40 1.15 -9.38	25.09 1.23 -8.51	25.75 1.47 -5.48	25.88 1.58 -4.84	26.21 1.61 -4.25	26.76 1.86 -3.21	28.14 1.85 -4.84	30.48 1.98 -5.24	34.41 2.00 -6.05	42.19 2.14 -11.82	45.41 2.08 -15.65	41.18 2.22 -8.55	42.17 1.97 -12.78	34.63 2.07 -6.01	29.02 1.68 -5.54	24.64 0.88 -12.12
KEDC_GLWD_GT5 24220	22.87 0.52 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.40 0.51 -9.68	20.23 0.57 -11.62	25.94 0.67 -16.02	28.41 0.84 -15.70	25.40 1.15 -9.38	25.09 1.23 -8.51	25.75 1.47 -5.48	25.88 1.58 -4.84	26.21 1.61 -4.25	26.76 1.86 -3.21	28.14 1.85 -4.84	30.48 1.98 -5.24	34.41 2.00 -6.05	42.19 2.14 -11.82	45.41 2.08 -15.65	41.18 2.22 -8.55	42.17 1.97 -12.78	34.63 2.07 -6.01	29.02 1.68 -5.54	24.64 0.88 -12.12
KENSICO____ 23655	20.87 0.41 -13.25	19.60 0.40 -12.12	18.00 0.40 -10.40	16.40 0.40 -8.80	17.19 0.40 -9.58	19.91 0.45 -11.41	25.76 0.53 -15.98	28.21 0.68 -15.66	25.17 0.94 -9.36	22.23 1.00 -5.87	22.88 1.22 -2.86	22.63 1.28 -1.88	22.55 1.34 -0.86	23.72 1.52 -0.53	24.29 1.48 -1.36	24.99 1.61 -0.12	28.26 1.74 -0.16	32.87 1.86 -2.79	36.05 1.83 -6.55	36.58 1.95 -4.22	35.81 1.73 -6.68	32.62 1.73 -4.35	24.94 1.31 -1.83	23.47 0.70 -11.13
KERHONKS_69_KV_TR1_REV_LBMP_G 345021	19.96 0.39 -12.36	18.77 0.38 -11.31	17.27 0.37 -9.70	15.78 0.37 -8.21	16.52 0.37 -8.94	19.11 0.41 -10.65	24.64 0.47 -14.91	27.07 0.58 -14.62	24.45 0.85 -8.73	21.71 0.88 -5.48	22.54 1.07 -2.67	22.35 1.13 -1.76	22.31 1.16 -0.80	23.47 1.30 -0.49	23.84 1.12 -1.27	24.63 1.26 -0.11	27.85 1.34 -0.15	32.35 1.52 -2.60	35.28 1.49 -6.11	36.08 1.46 -4.20	35.65 1.59 -6.65	32.12 1.51 -4.06	24.71 1.20 -1.70	22.64 0.62 -10.38
KIAC_JFK_GT1 23816	20.88 0.40 -13.27	19.61 0.39 -12.15	18.00 0.38 -10.42	16.40 0.38 -8.82	17.18 0.37 -9.60	19.92 0.43 -11.43	25.82 0.56 -16.02	28.28 0.71 -15.69	25.23 0.98 -9.38	22.36 1.12 -5.89	22.92 1.26 -2.86	22.71 1.36 -1.89	22.59 1.38 -0.86	23.83 1.63 -0.53	24.34 1.52 -1.36	25.08 1.70 -0.12	28.36 1.84 -0.16	32.88 1.86 -2.79	36.04 1.80 -6.56	36.53 1.89 -4.23	35.77 1.67 -6.69	32.58 1.67 -4.36	25.05 1.42 -1.83	23.50 0.71 -11.15
KIAC_JFK_GT2 23817	20.88 0.40 -13.27	19.61 0.39 -12.15	18.00 0.38 -10.42	16.40 0.38 -8.82	17.18 0.37 -9.60	19.92 0.43 -11.43	25.82 0.56 -16.02	28.28 0.71 -15.69	25.23 0.98 -9.38	22.36 1.12 -5.89	22.92 1.26 -2.86	22.71 1.36 -1.89	22.59 1.38 -0.86	23.83 1.63 -0.53	24.34 1.52 -1.36	25.08 1.70 -0.12	28.36 1.84 -0.16	32.88 1.86 -2.79	36.04 1.80 -6.56	36.53 1.89 -4.23	35.77 1.67 -6.69	32.58 1.67 -4.36	25.05 1.42 -1.83	23.50 0.71 -11.15
KIAC_JFK____ 323774	20.88 0.40 -13.27	19.61 0.39 -12.15	18.00 0.38 -10.42	16.40 0.38 -8.82	17.18 0.37 -9.60	19.92 0.43 -11.43	25.82 0.56 -16.02	28.28 0.71 -15.69	25.23 0.98 -9.38	22.36 1.12 -5.89	22.92 1.26 -2.86	22.71 1.36 -1.89	22.59 1.38 -0.86	23.83 1.63 -0.53	24.34 1.52 -1.36	25.08 1.70 -0.12	28.36 1.84 -0.16	32.88 1.86 -2.79	36.04 1.80 -6.56	36.53 1.89 -4.23	35.77 1.67 -6.69	32.58 1.67 -4.36	25.05 1.42 -1.83	23.50 0.71 -11.15
KINTIGH____ 23543	9.34 0.04 -2.09	8.97 -0.01 -1.91	8.85 0.01 -1.64	8.61 0.03 -1.38	8.78 0.06 -1.51	9.87 0.03 -1.79	11.71 -0.06 -2.51	13.98 -0.36 -2.46	15.85 -0.49 -1.47	15.70 -0.55 -0.90	18.43 -0.81 -0.44	18.93 -0.82 -0.29	19.67 -0.81 -0.13	21.17 -0.59 -0.08	21.15 -0.51 -0.21	22.61 -0.67 -0.02	25.59 -0.79 -0.02	27.63 -1.02 -0.42	27.63 -1.05 -1.00	29.79 -1.19 -0.56	27.37 -0.93 -0.89	26.63 -0.58 -0.66	21.95 -0.13 -0.28	13.47 0.13 -1.70
KNTFSRNC_46_KV_46KV_LOAD 80397	7.31 0.10 0.00	7.21 0.14 0.00	7.32 0.12 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.48 0.23 0.00	12.25 0.38 0.00	15.24 0.37 0.00	15.81 0.46 0.00	19.27 0.47 0.00	19.83 0.37 0.00	20.72 0.37 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.75 0.40 0.00	28.81 0.59 0.00	28.43 0.75 0.00	31.21 0.79 0.00	28.07 0.66 0.00	26.81 0.27 0.00	21.56 -0.24 0.00	11.42 -0.22 0.00



LACHUTE____HYDRO 323717	25.11 0.77 -17.13	23.43 0.68 -15.68	21.36 0.72 -13.44	19.26 0.68 -11.38	20.34 0.74 -12.39	23.66 0.86 -14.76	30.96 1.05 -20.67	33.39 1.27 -20.25	28.59 1.62 -12.09	24.39 1.44 -7.59	24.15 1.65 -3.69	23.73 1.83 -2.43	23.23 1.77 -1.11	24.40 2.04 -0.68	25.27 2.06 -1.75	25.65 2.23 -0.16	28.83 2.27 -0.21	34.34 2.51 -3.60	38.69 2.54 -8.47	46.36 2.98 -12.97	50.63 2.71 -20.50	34.53 2.36 -5.63	26.15 1.98 -2.36	26.88 0.85 -14.39
LAWRNCV_115KV_TB1 80681	7.06 -0.14 0.00	6.96 -0.11 0.00	7.06 -0.14 0.00	7.08 -0.12 0.00	7.08 -0.12 0.00	7.91 -0.14 0.00	9.13 -0.12 0.00	11.79 -0.08 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.13 -0.33 0.00	19.99 -0.37 0.00	21.05 -0.63 0.00	20.62 -0.84 0.00	22.33 -0.93 0.00	25.41 -0.95 0.00	27.23 -0.99 0.00	26.82 -0.86 0.00	29.50 -0.91 0.00	26.64 -0.77 0.00	25.86 -0.69 0.00	21.19 -0.61 0.00	11.30 -0.34 0.00
LEDERLE____ 23769	20.37 0.42 -12.75	19.15 0.41 -11.67	17.61 0.40 -10.01	16.08 0.41 -8.47	16.84 0.41 -9.22	19.49 0.46 -10.98	25.17 0.54 -15.38	27.62 0.68 -15.07	24.83 0.95 -9.01	22.02 1.01 -5.65	22.79 1.24 -2.75	22.60 1.32 -1.81	22.54 1.36 -0.82	23.70 1.52 -0.51	24.26 1.50 -1.30	25.03 1.65 -0.12	28.30 1.79 -0.16	32.82 1.92 -2.68	35.84 1.85 -6.30	36.43 1.95 -4.07	35.60 1.75 -6.44	32.46 1.73 -4.19	24.89 1.33 -1.76	23.05 0.70 -10.71
LIGHTHSE_115KV_TB6 355974	8.36 -0.04 -1.19	8.10 -0.06 -1.09	8.08 -0.06 -0.94	7.95 -0.04 -0.79	8.04 -0.03 -0.86	9.08 0.00 -1.03	10.69 0.00 -1.44	13.20 -0.08 -1.41	15.54 -0.18 -0.85	15.64 -0.23 -0.52	18.81 -0.24 -0.25	19.38 -0.25 -0.17	20.16 -0.26 -0.08	21.47 -0.26 -0.05	21.32 -0.26 -0.12	23.02 -0.26 -0.01	26.13 -0.24 -0.01	28.21 -0.25 -0.24	28.01 -0.25 -0.57	30.23 -0.18 0.00	27.27 -0.14 0.00	26.80 -0.13 -0.38	21.96 0.00 -0.16	12.68 0.06 -0.98
LINDEN COGEN____ 23786	20.94 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.46 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.84 0.57 -16.02	28.31 0.75 -15.69	25.29 1.04 -9.38	22.36 1.12 -5.89	23.02 1.35 -2.86	22.81 1.46 -1.89	22.68 1.47 -0.86	23.83 1.63 -0.53	24.40 1.59 -1.36	25.08 1.70 -0.12	28.34 1.82 -0.16	32.90 1.89 -2.79	36.07 1.83 -6.56	36.56 1.92 -4.23	35.82 1.73 -6.69	32.66 1.75 -4.36	25.07 1.44 -1.83	23.56 0.77 -11.15
LINDHRST_69_KV_BK1 356055	22.95 0.59 -15.15	20.50 0.59 -12.84	18.21 0.59 -10.42	18.89 0.59 -11.10	17.49 0.60 -9.68	20.33 0.67 -11.62	26.03 0.76 -16.02	28.52 0.95 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.84 1.56 -5.48	25.98 1.67 -4.84	26.31 1.71 -4.25	26.95 2.06 -3.21	28.31 2.02 -4.84	30.69 2.19 -5.24	34.83 2.42 -6.05	42.61 2.57 -11.82	45.85 2.52 -15.65	41.73 2.77 -8.55	42.66 2.47 -12.78	35.00 2.44 -6.01	29.20 1.85 -5.54	24.76 1.00 -12.12
LIPA_MISC_IPP 23656	22.84 0.48 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.41 0.53 -9.68	20.24 0.58 -11.62	25.88 0.61 -16.02	28.30 0.74 -15.70	25.23 0.98 -9.38	24.98 1.12 -8.51	25.47 1.18 -5.48	25.63 1.32 -4.84	25.92 1.32 -4.25	26.56 1.67 -3.21	27.93 1.63 -4.84	30.25 1.74 -5.24	34.46 2.06 -6.05	42.19 2.14 -11.82	45.43 2.10 -15.65	41.24 2.28 -8.55	42.17 1.97 -12.78	34.55 1.99 -6.01	28.78 1.44 -5.54	24.54 0.78 -12.12
LISF____SOLAR 323691	22.85 0.49 -15.15	20.43 0.52 -12.84	18.14 0.52 -10.42	18.82 0.53 -11.10	17.43 0.54 -9.68	20.25 0.59 -11.62	25.89 0.62 -16.02	28.32 0.75 -15.70	25.25 1.00 -9.38	24.98 1.12 -8.51	25.47 1.19 -5.48	25.63 1.32 -4.84	25.92 1.32 -4.25	26.56 1.67 -3.21	27.92 1.63 -4.84	30.27 1.77 -5.24	34.47 2.06 -6.05	42.22 2.17 -11.82	45.43 2.10 -15.65	41.27 2.31 -8.55	42.19 2.00 -12.78	34.55 1.99 -6.01	28.87 1.53 -5.54	24.56 0.80 -12.12
LITTLE FALLS____HYD 24013	7.26 0.06 0.00	7.11 0.04 0.00	7.23 0.03 0.00	7.23 0.03 0.00	7.24 0.03 0.00	8.10 0.06 0.00	9.34 0.08 0.00	11.95 0.08 0.00	14.98 0.10 0.00	15.46 0.11 0.00	18.97 0.17 0.00	19.72 0.25 0.00	20.60 0.24 0.00	21.79 0.11 0.00	21.56 0.11 0.00	23.40 0.14 0.00	26.51 0.16 0.00	28.42 0.20 0.00	27.87 0.19 0.00	30.63 0.21 0.00	27.55 0.14 0.00	26.68 0.13 0.00	22.02 0.22 0.00	11.75 0.10 0.00
LITTLRIV_115KV_TB1 356100	7.10 -0.11 0.00	6.99 -0.08 0.00	7.10 -0.10 0.00	7.12 -0.08 0.00	7.13 -0.08 0.00	7.97 -0.07 0.00	9.21 -0.04 0.00	11.88 0.01 0.00	14.75 -0.12 0.00	15.26 -0.09 0.00	18.67 -0.13 0.00	19.27 -0.19 0.00	20.13 -0.22 0.00	21.16 -0.52 0.00	20.72 -0.73 0.00	22.43 -0.84 0.00	25.56 -0.79 0.00	27.43 -0.79 0.00	27.04 -0.64 0.00	29.75 -0.67 0.00	26.86 -0.55 0.00	26.02 -0.53 0.00	21.34 -0.46 0.00	11.39 -0.26 0.00
LI_NEWBRDGE____DRP 323616	22.86 0.50 -15.15	20.41 0.50 -12.84	18.12 0.50 -10.42	18.80 0.50 -11.10	17.39 0.50 -9.68	20.23 0.56 -11.62	25.92 0.65 -16.02	28.38 0.81 -15.70	25.35 1.10 -9.38	25.06 1.20 -8.51	25.66 1.37 -5.48	25.78 1.48 -4.84	26.11 1.51 -4.25	26.67 1.78 -3.21	28.03 1.74 -4.84	30.34 1.84 -5.24	34.46 2.06 -6.05	42.22 2.17 -11.82	45.43 2.10 -15.65	41.24 2.28 -8.55	42.22 2.03 -12.78	34.60 2.04 -6.01	28.91 1.57 -5.54	24.61 0.85 -12.12
LOCKPORT_115KV_TB60_63_64 80432	9.52 0.04 -2.28	9.12 -0.04 -2.08	8.99 0.01 -1.79	8.74 0.03 -1.51	8.93 0.07 -1.65	10.01 -0.01 -1.97	11.84 -0.17 -2.76	14.00 -0.57 -2.70	15.71 -0.77 -1.62	15.49 -0.84 -0.98	18.13 -1.15 -0.48	18.61 -1.17 -0.31	19.32 -1.18 -0.14	20.84 -0.93 -0.09	20.89 -0.79 -0.23	22.40 -0.88 -0.02	25.22 -1.16 -0.03	27.28 -1.41 -0.47	27.25 -1.52 -1.09	29.64 -1.40 -0.63	27.20 -1.21 -0.99	26.32 -0.96 -0.73	21.74 -0.37 -0.31	13.46 -0.03 -1.86
LOCKPORT____CC1 323769	9.54 0.04 -2.29	9.14 -0.03 -2.10	9.01 0.01 -1.80	8.76 0.04 -1.52	8.95 0.08 -1.66	10.02 0.00 -1.98	11.88 -0.14 -2.77	14.04 -0.55 -2.71	15.77 -0.73 -1.63	15.53 -0.81 -0.99	18.25 -1.03 -0.48	18.63 -1.15 -0.32	19.48 -1.02 -0.14	20.88 -0.89 -0.09	20.91 -0.77 -0.23	22.42 -0.86 -0.02	25.28 -1.11 -0.03	27.31 -1.38 -0.47	27.32 -1.47 -1.10	29.68 -1.37 -0.63	27.26 -1.15 -1.00	26.40 -0.88 -0.73	21.74 -0.37 -0.31	13.50 -0.01 -1.87
LOCKPORT____CC2 323770	9.54 0.04 -2.29	9.14 -0.03 -2.10	9.01 0.01 -1.80	8.76 0.04 -1.52	8.95 0.08 -1.66	10.02 0.00 -1.98	11.88 -0.14 -2.77	14.04 -0.55 -2.71	15.77 -0.73 -1.63	15.53 -0.81 -0.99	18.25 -1.03 -0.48	18.63 -1.15 -0.32	19.48 -1.02 -0.14	20.88 -0.89 -0.09	20.91 -0.77 -0.23	22.42 -0.86 -0.02	25.28 -1.11 -0.03	27.31 -1.38 -0.47	27.32 -1.47 -1.10	29.68 -1.37 -0.63	27.26 -1.15 -1.00	26.40 -0.88 -0.73	21.74 -0.37 -0.31	13.50 -0.01 -1.87
LOCKPORT____CC3 323771	9.54 0.04 -2.29	9.14 -0.03 -2.10	9.01 0.01 -1.80	8.76 0.04 -1.52	8.95 0.08 -1.66	10.02 0.00 -1.98	11.88 -0.14 -2.77	14.04 -0.55 -2.71	15.77 -0.73 -1.63	15.53 -0.81 -0.99	18.25 -1.03 -0.48	18.63 -1.15 -0.32	19.48 -1.02 -0.14	20.88 -0.89 -0.09	20.91 -0.77 -0.23	22.42 -0.86 -0.02	25.28 -1.11 -0.03	27.31 -1.38 -0.47	27.32 -1.47 -1.10	29.68 -1.37 -0.63	27.26 -1.15 -1.00	26.40 -0.88 -0.73	21.74 -0.37 -0.31	13.50 -0.01 -1.87



LONG_LAKE_PHOENIX 24014	8.47 -0.08 -1.35	8.20 -0.11 -1.23	8.16 -0.09 -1.06	8.01 -0.09 -0.89	8.10 -0.08 -0.97	9.13 -0.07 -1.16	10.78 -0.09 -1.62	13.27 -0.19 -1.59	15.57 -0.25 -0.95	15.64 -0.29 -0.58	18.76 -0.32 -0.28	19.34 -0.31 -0.19	20.13 -0.31 -0.08	21.43 -0.30 -0.05	21.29 -0.30 -0.13	22.97 -0.30 -0.01	26.03 -0.34 -0.02	28.07 -0.42 -0.28	27.88 -0.44 -0.65	29.93 -0.49 0.00	27.03 -0.38 0.00	26.60 -0.37 -0.43	21.79 -0.20 -0.18	12.72 -0.02 -1.10
LOVETT___3 23632	20.40 0.39 -12.81	19.18 0.38 -11.72	17.63 0.38 -10.05	16.09 0.38 -8.51	16.85 0.38 -9.26	19.51 0.43 -11.03	25.20 0.50 -15.45	27.64 0.63 -15.14	24.80 0.88 -9.05	21.97 0.94 -5.68	22.71 1.15 -2.76	22.51 1.23 -1.82	22.44 1.26 -0.83	23.62 1.43 -0.51	24.18 1.42 -1.31	24.92 1.54 -0.12	28.17 1.66 -0.16	32.69 1.78 -2.69	35.73 1.72 -6.33	36.33 1.82 -4.09	35.52 1.64 -6.46	32.37 1.62 -4.21	24.81 1.24 -1.76	23.06 0.66 -10.76
LOVETT___4 23642	20.40 0.39 -12.81	19.18 0.38 -11.72	17.63 0.38 -10.05	16.09 0.38 -8.51	16.85 0.38 -9.26	19.51 0.43 -11.03	25.20 0.50 -15.45	27.64 0.63 -15.14	24.80 0.88 -9.05	21.97 0.94 -5.68	22.71 1.15 -2.76	22.51 1.23 -1.82	22.44 1.26 -0.83	23.62 1.43 -0.51	24.18 1.42 -1.31	24.92 1.54 -0.12	28.17 1.66 -0.16	32.69 1.78 -2.69	35.73 1.72 -6.33	36.33 1.82 -4.09	35.52 1.64 -6.46	32.37 1.62 -4.21	24.81 1.24 -1.76	23.06 0.66 -10.76
LOVETT___5 23593	20.40 0.39 -12.81	19.18 0.38 -11.72	17.63 0.38 -10.05	16.09 0.38 -8.51	16.85 0.38 -9.26	19.51 0.43 -11.03	25.20 0.50 -15.45	27.64 0.63 -15.14	24.80 0.88 -9.05	21.97 0.94 -5.68	22.71 1.15 -2.76	22.51 1.23 -1.82	22.44 1.26 -0.83	23.62 1.43 -0.51	24.18 1.42 -1.31	24.92 1.54 -0.12	28.17 1.66 -0.16	32.69 1.78 -2.69	35.73 1.72 -6.33	36.33 1.82 -4.09	35.52 1.64 -6.46	32.37 1.62 -4.21	24.81 1.24 -1.76	23.06 0.66 -10.76
LOWER RAQUET___HYD 24057	7.06 -0.15 0.00	6.95 -0.12 0.00	7.06 -0.14 0.00	7.07 -0.13 0.00	7.08 -0.13 0.00	7.91 -0.14 0.00	9.13 -0.12 0.00	11.79 -0.08 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.13 -0.33 0.00	19.97 -0.39 0.00	21.03 -0.65 0.00	20.55 -0.90 0.00	22.26 -1.00 0.00	25.33 -1.03 0.00	27.15 -1.07 0.00	26.77 -0.91 0.00	29.41 -1.00 0.00	26.59 -0.82 0.00	25.83 -0.72 0.00	21.19 -0.61 0.00	11.30 -0.34 0.00
LOWER___HUDSON 24059	24.23 0.32 -16.71	22.66 0.30 -15.29	20.62 0.31 -13.11	18.61 0.31 -11.10	19.61 0.32 -12.09	22.79 0.35 -14.39	29.82 0.41 -20.16	32.11 0.49 -19.76	27.29 0.62 -11.80	23.37 0.61 -7.40	23.12 0.71 -3.60	22.59 0.76 -2.37	22.20 0.77 -1.08	23.27 0.93 -0.66	24.11 0.94 -1.71	24.44 1.02 -0.15	27.72 1.16 -0.20	32.98 1.24 -3.51	37.12 1.19 -8.26	42.91 1.37 -11.13	46.27 1.26 -17.60	33.31 1.27 -5.49	25.22 1.11 -2.30	26.20 0.52 -14.03
LOWVILLE_115KV_TB2 356335	7.88 0.07 -0.60	7.68 0.06 -0.55	7.73 0.06 -0.47	7.68 0.08 -0.40	7.74 0.10 -0.43	8.72 0.15 -0.52	10.19 0.21 -0.72	12.80 0.23 -0.71	15.45 0.15 -0.42	15.69 0.08 -0.26	19.06 0.13 -0.13	19.68 0.14 -0.08	20.51 0.12 -0.04	21.77 0.07 -0.02	21.54 0.02 -0.06	23.29 0.02 -0.01	26.57 0.21 -0.01	28.74 0.40 -0.12	28.41 0.44 -0.29	31.08 0.67 0.00	27.99 0.58 0.00	27.19 0.45 -0.19	22.36 0.48 -0.08	12.39 0.26 -0.49
LUTHERFT_115KV_GLOB_FND_222 355753	24.72 0.42 -17.09	23.10 0.38 -15.64	21.02 0.40 -13.41	18.95 0.40 -11.35	19.98 0.41 -12.36	23.24 0.47 -14.72	30.42 0.55 -20.62	32.74 0.66 -20.21	27.80 0.86 -12.07	23.74 0.81 -7.58	23.45 0.96 -3.69	22.88 0.99 -2.43	22.45 1.00 -1.10	23.55 1.19 -0.68	24.40 1.20 -1.75	24.74 1.33 -0.16	27.96 1.40 -0.21	33.34 1.52 -3.60	37.65 1.52 -8.45	44.95 1.73 -12.80	49.21 1.56 -20.24	33.67 1.51 -5.61	25.42 1.26 -2.36	26.57 0.57 -14.36
LUTHERNY_35_KV_BK2 355980	24.72 0.43 -17.09	23.10 0.39 -15.64	21.02 0.40 -13.41	18.95 0.40 -11.35	19.98 0.41 -12.36	23.25 0.47 -14.72	30.43 0.56 -20.62	32.74 0.66 -20.21	27.80 0.86 -12.07	23.74 0.81 -7.58	23.45 0.96 -3.69	22.90 1.01 -2.43	22.47 1.02 -1.10	23.57 1.21 -0.68	24.40 1.20 -1.75	24.74 1.33 -0.16	27.99 1.42 -0.21	33.37 1.55 -3.60	37.65 1.52 -8.45	44.95 1.73 -12.80	49.24 1.59 -20.24	33.67 1.51 -5.61	25.42 1.26 -2.36	26.57 0.57 -14.36
LWR___OSWEGATCHIE_HYD 23850	7.59 -0.06 -0.45	7.43 -0.06 -0.41	7.49 -0.06 -0.35	7.45 -0.05 -0.30	7.49 -0.04 -0.32	8.42 -0.02 -0.39	9.81 0.02 -0.54	12.42 0.02 -0.53	15.10 -0.09 -0.32	15.42 -0.12 -0.19	18.74 -0.15 -0.09	19.33 -0.19 -0.06	20.16 -0.22 -0.03	21.31 -0.39 -0.02	20.96 -0.54 -0.04	22.69 -0.58 0.00	25.86 -0.50 -0.01	27.89 -0.42 -0.09	27.56 -0.33 -0.22	30.14 -0.27 0.00	27.22 -0.19 0.00	26.50 -0.19 -0.14	21.73 -0.13 -0.06	11.94 -0.07 -0.37
LYONS_FALL_HYD 23570	7.88 0.10 -0.57	7.67 0.08 -0.52	7.72 0.08 -0.45	7.68 0.10 -0.38	7.73 0.11 -0.41	8.71 0.17 -0.49	10.16 0.22 -0.69	12.78 0.24 -0.67	15.47 0.19 -0.40	15.75 0.15 -0.25	19.16 0.24 -0.12	19.79 0.25 -0.08	20.65 0.26 -0.04	21.92 0.22 -0.02	21.68 0.17 -0.06	23.45 0.19 -0.01	26.73 0.37 -0.01	28.85 0.51 -0.12	28.51 0.55 -0.27	31.14 0.73 0.00	28.04 0.63 0.00	27.23 0.50 -0.18	22.40 0.52 -0.08	12.40 0.29 -0.46
MADISON___COUNTY_LFGE 323628	8.31 0.17 -0.94	8.07 0.14 -0.86	8.08 0.14 -0.73	7.99 0.17 -0.62	8.06 0.18 -0.68	9.09 0.23 -0.81	10.67 0.29 -1.13	13.28 0.31 -1.11	15.85 0.31 -0.66	16.03 0.28 -0.40	19.43 0.43 -0.20	20.06 0.47 -0.13	20.90 0.49 -0.06	22.21 0.50 -0.04	22.04 0.49 -0.09	23.81 0.54 -0.01	27.08 0.71 -0.01	29.26 0.85 -0.19	28.96 0.83 -0.45	31.39 0.97 0.00	28.29 0.88 0.00	27.56 0.72 -0.30	22.63 0.70 -0.13	12.80 0.40 -0.76
MALONE___115KV_TB1 356076	7.24 0.03 0.00	7.14 0.06 0.00	7.24 0.04 0.00	7.26 0.06 0.00	7.26 0.06 0.00	8.11 0.06 0.00	9.38 0.13 0.00	12.13 0.26 0.00	15.09 0.22 0.00	15.66 0.31 0.00	19.08 0.28 0.00	19.66 0.19 0.00	20.54 0.18 0.00	21.70 0.02 0.00	21.39 -0.06 0.00	23.19 -0.07 0.00	26.36 0.00 0.00	28.33 0.11 0.00	27.96 0.28 0.00	30.69 0.27 0.00	27.66 0.25 0.00	26.52 -0.03 0.00	21.43 -0.37 0.00	11.37 -0.27 0.00
MAPLEWOD_115KV_TB3 80458	24.18 0.35 -16.62	22.61 0.33 -15.21	20.58 0.34 -13.05	18.58 0.34 -11.04	19.58 0.35 -12.03	22.75 0.39 -14.32	29.75 0.44 -20.06	32.06 0.53 -19.66	27.32 0.71 -11.74	23.41 0.69 -7.37	23.21 0.83 -3.58	22.70 0.88 -2.36	22.34 0.92 -1.07	23.42 1.08 -0.66	24.25 1.09 -1.70	24.62 1.21 -0.15	27.98 1.42 -0.20	33.24 1.52 -3.50	37.39 1.49 -8.22	41.88 1.70 -9.76	44.38 1.53 -15.43	33.52 1.51 -5.46	25.40 1.31 -2.29	26.21 0.61 -13.96
MAPLE RIDGE_WT_1 323574	7.09 -0.12 0.00	6.97 -0.10 0.00	7.09 -0.11 0.00	7.08 -0.12 0.00	7.08 -0.13 0.00	7.89 -0.16 0.00	9.08 -0.18 0.00	11.68 -0.19 0.00	14.63 -0.24 0.00	15.14 -0.21 0.00	18.54 -0.26 0.00	19.17 -0.29 0.00	20.05 -0.30 0.00	21.31 -0.37 0.00	21.07 -0.39 0.00	22.82 -0.44 0.00	25.88 -0.47 0.00	27.71 -0.51 0.00	27.18 -0.50 0.00	29.81 -0.61 0.00	26.75 -0.66 0.00	25.72 -0.82 0.00	20.95 -0.85 0.00	11.12 -0.52 0.00



MAPLE_RIDGE_WT_2 323611	7.09 -0.12 0.00	6.97 -0.10 0.00	7.09 -0.11 0.00	7.08 -0.12 0.00	7.08 -0.13 0.00	7.89 -0.16 0.00	9.08 -0.18 0.00	11.68 -0.19 0.00	14.63 -0.24 0.00	15.14 -0.21 0.00	18.54 -0.26 0.00	19.17 -0.29 0.00	20.05 -0.30 0.00	21.31 -0.37 0.00	21.07 -0.39 0.00	22.82 -0.44 0.00	25.88 -0.47 0.00	27.71 -0.51 0.00	27.18 -0.50 0.00	29.81 -0.61 0.00	26.75 -0.66 0.00	25.72 -0.82 0.00	20.95 -0.85 0.00	11.12 -0.52 0.00
MARBLE_RIVER_WT_PWR 323696	7.22 0.01 0.00	7.12 0.05 0.00	7.24 0.04 0.00	7.24 0.04 0.00	7.26 0.05 0.00	8.10 0.05 0.00	9.34 0.09 0.00	12.07 0.20 0.00	15.04 0.16 0.00	15.60 0.24 0.00	19.01 0.21 0.00	19.60 0.14 0.00	20.48 0.12 0.00	21.72 0.04 0.00	21.48 0.02 0.00	23.26 0.00 0.00	26.43 0.08 0.00	28.42 0.20 0.00	27.98 0.31 0.00	30.72 0.30 0.00	27.63 0.22 0.00	26.47 -0.08 0.00	21.32 -0.48 0.00	11.28 -0.36 0.00
MARSHVLE_115KV_TB1 80742	28.15 0.48 -20.47	26.22 0.42 -18.73	23.70 0.44 -16.06	21.23 0.44 -13.59	22.48 0.47 -14.80	26.24 0.56 -17.63	34.64 0.69 -24.69	36.89 0.82 -24.20	30.21 1.00 -14.35	25.26 0.86 -9.05	24.24 1.03 -4.40	23.49 1.11 -2.92	22.84 1.16 -1.33	23.92 1.43 -0.80	24.99 1.46 -2.07	25.10 1.65 -0.18	28.66 2.06 -0.25	34.81 2.26 -4.33	40.17 2.33 -10.17	44.80 2.68 -11.71	48.40 2.47 -18.52	35.48 2.18 -6.76	26.29 1.66 -2.83	29.70 0.78 -17.28
MARSH_HILL_WT_PWR 323713	10.82 0.57 -3.04	10.35 0.49 -2.79	10.13 0.55 -2.39	9.78 0.56 -2.02	9.99 0.58 -2.20	11.37 0.70 -2.62	13.73 0.80 -3.67	16.26 0.80 -3.60	17.86 0.83 -2.16	17.46 0.80 -1.31	20.55 1.11 -0.64	21.07 1.19 -0.42	21.85 1.30 -0.19	23.29 1.49 -0.12	23.32 1.57 -0.30	25.29 2.00 -0.03	27.10 0.71 -0.04	29.52 0.68 -0.62	29.72 0.58 -1.46	32.26 0.97 -0.88	29.76 0.96 -1.39	28.23 0.69 -1.00	22.96 0.74 -0.42	14.71 0.51 -2.55
MCINTYRE_115KV_TB2 80467	7.11 -0.10 0.00	7.00 -0.07 0.00	7.11 -0.09 0.00	7.13 -0.07 0.00	7.14 -0.07 0.00	7.98 -0.06 0.00	9.22 -0.03 0.00	11.89 0.02 0.00	14.75 -0.12 0.00	15.26 -0.09 0.00	18.67 -0.13 0.00	19.29 -0.18 0.00	20.13 -0.22 0.00	21.22 -0.46 0.00	20.83 -0.62 0.00	22.57 -0.70 0.00	25.70 -0.66 0.00	27.60 -0.62 0.00	27.24 -0.44 0.00	29.99 -0.43 0.00	27.05 -0.36 0.00	26.12 -0.42 0.00	21.37 -0.44 0.00	11.41 -0.23 0.00
MECO____69_KV_BK1 80468	27.35 0.69 -19.45	25.48 0.61 -17.80	23.10 0.64 -15.26	20.73 0.62 -12.92	21.95 0.68 -14.07	25.60 0.80 -16.75	33.70 0.99 -23.46	36.00 1.14 -22.99	29.91 1.41 -13.62	25.12 1.18 -8.58	24.35 1.37 -4.18	23.73 1.50 -2.77	23.18 1.57 -1.26	23.97 1.52 -0.77	25.03 1.59 -1.99	25.30 1.86 -0.18	28.97 2.37 -0.24	35.29 2.96 -4.11	40.40 3.07 -9.65	46.35 3.50 -12.44	50.29 3.21 -19.68	35.61 2.65 -6.41	26.98 2.49 -2.69	29.15 1.12 -16.39
MENANDS__115KV_TB5 355628	23.94 0.30 -16.43	22.40 0.29 -15.03	20.39 0.30 -12.89	18.41 0.30 -10.91	19.39 0.30 -11.88	22.54 0.34 -14.15	29.44 0.37 -19.82	31.74 0.45 -19.42	27.07 0.59 -11.60	23.23 0.60 -7.28	23.08 0.73 -3.54	22.55 0.76 -2.33	22.21 0.79 -1.06	23.29 0.95 -0.65	24.10 0.97 -1.68	24.46 1.05 -0.15	27.77 1.21 -0.20	32.95 1.27 -3.45	37.01 1.22 -8.12	40.37 1.37 -8.59	42.22 1.23 -13.58	33.24 1.30 -5.39	25.22 1.16 -2.26	26.00 0.56 -13.79
MG INDUSTRY__DRP 24185	23.68 0.30 -16.17	22.15 0.28 -14.80	20.19 0.30 -12.69	18.23 0.30 -10.74	19.21 0.30 -11.70	22.31 0.34 -13.93	29.13 0.37 -19.51	31.43 0.44 -19.12	26.87 0.58 -11.42	23.07 0.55 -7.17	22.95 0.66 -3.49	22.44 0.68 -2.30	22.13 0.73 -1.04	23.17 0.85 -0.64	23.99 0.88 -1.65	24.39 0.98 -0.15	27.69 1.13 -0.20	32.84 1.21 -3.40	36.86 1.19 -7.99	38.98 1.34 -7.22	40.07 1.23 -11.42	33.10 1.25 -5.31	25.12 1.09 -2.23	25.74 0.52 -13.58
MID__OSWEGATCHIE_HYD 23849	7.59 -0.06 -0.45	7.43 -0.06 -0.41	7.49 -0.06 -0.35	7.45 -0.05 -0.30	7.49 -0.04 -0.32	8.42 -0.02 -0.39	9.81 0.02 -0.54	12.42 0.02 -0.53	15.10 -0.09 -0.32	15.42 -0.12 -0.19	18.74 -0.15 -0.09	19.33 -0.19 -0.06	20.16 -0.22 -0.03	21.31 -0.39 -0.02	20.96 -0.54 -0.04	22.69 -0.58 0.00	25.86 -0.50 -0.01	27.89 -0.42 -0.09	27.56 -0.33 -0.22	30.14 -0.27 0.00	27.22 -0.19 0.00	26.50 -0.19 -0.14	21.73 -0.13 -0.06	11.94 -0.07 -0.37
MID__RAQUETTE_HYD 23851	7.06 -0.15 0.00	6.95 -0.12 0.00	7.06 -0.14 0.00	7.07 -0.13 0.00	7.08 -0.13 0.00	7.91 -0.14 0.00	9.13 -0.12 0.00	11.79 -0.08 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.13 -0.33 0.00	19.99 -0.37 0.00	21.03 -0.65 0.00	20.55 -0.90 0.00	22.26 -1.00 0.00	25.33 -1.03 0.00	27.15 -1.07 0.00	26.77 -0.91 0.00	29.41 -1.00 0.00	26.59 -0.82 0.00	25.83 -0.72 0.00	21.19 -0.61 0.00	11.30 -0.34 0.00
MILLIKEN__1 23584	10.32 0.18 -2.93	9.90 0.15 -2.68	9.66 0.17 -2.30	9.31 0.17 -1.95	9.51 0.18 -2.12	10.80 0.23 -2.52	13.06 0.27 -3.54	15.58 0.25 -3.46	17.17 0.22 -2.08	16.80 0.20 -1.25	19.69 0.28 -0.61	20.19 0.33 -0.40	20.90 0.37 -0.18	22.25 0.46 -0.11	22.21 0.47 -0.29	23.87 0.58 -0.03	27.05 0.66 -0.03	29.55 0.73 -0.59	29.76 0.69 -1.39	32.10 0.85 -0.83	29.55 0.82 -1.32	28.16 0.69 -0.92	22.82 0.63 -0.39	14.42 0.42 -2.36
MILLIKEN__2 23585	10.32 0.18 -2.93	9.90 0.15 -2.68	9.66 0.17 -2.30	9.31 0.17 -1.95	9.51 0.18 -2.12	10.80 0.23 -2.52	13.06 0.27 -3.54	15.58 0.25 -3.46	17.17 0.22 -2.08	16.80 0.20 -1.25	19.69 0.28 -0.61	20.19 0.33 -0.40	20.90 0.37 -0.18	22.25 0.46 -0.11	22.21 0.47 -0.29	23.87 0.58 -0.03	27.05 0.66 -0.03	29.55 0.73 -0.59	29.76 0.69 -1.39	32.10 0.85 -0.83	29.55 0.82 -1.32	28.16 0.69 -0.92	22.82 0.63 -0.39	14.42 0.42 -2.36
MILLIKEN__DIESEL 23629	10.32 0.18 -2.93	9.90 0.15 -2.68	9.66 0.17 -2.30	9.31 0.17 -1.95	9.51 0.18 -2.12	10.80 0.23 -2.52	13.06 0.27 -3.54	15.58 0.25 -3.46	17.17 0.22 -2.08	16.80 0.20 -1.25	19.69 0.28 -0.61	20.19 0.33 -0.40	20.90 0.37 -0.18	22.25 0.46 -0.11	22.21 0.47 -0.29	23.87 0.58 -0.03	27.05 0.66 -0.03	29.55 0.73 -0.59	29.76 0.69 -1.39	32.10 0.85 -0.83	29.55 0.82 -1.32	28.16 0.69 -0.92	22.82 0.63 -0.39	14.42 0.42 -2.36
MILLSEAT__LFGE 323607	9.58 0.10 -2.27	9.18 0.03 -2.08	9.05 0.06 -1.79	8.80 0.09 -1.51	8.98 0.13 -1.65	10.08 0.07 -1.96	11.93 -0.06 -2.74	14.11 -0.45 -2.69	15.86 -0.62 -1.61	15.61 -0.72 -0.98	18.38 -0.90 -0.48	18.75 -1.03 -0.31	19.60 -0.90 -0.14	20.99 -0.78 -0.09	21.04 -0.64 -0.23	22.56 -0.72 -0.02	25.43 -0.95 -0.03	27.53 -1.16 -0.47	27.53 -1.25 -1.09	29.98 -1.07 -0.63	27.52 -0.88 -0.99	26.64 -0.64 -0.73	21.91 -0.20 -0.30	13.58 0.08 -1.86
MILLWOOD_138_KV_38W41_REV_LBMP_H 345005	20.80 0.40 -13.20	19.54 0.39 -12.08	17.94 0.39 -10.36	16.36 0.40 -8.76	17.14 0.39 -9.55	19.86 0.44 -11.37	25.68 0.51 -15.92	28.13 0.65 -15.60	25.09 0.89 -9.32	22.16 0.95 -5.85	22.83 1.18 -2.85	22.58 1.25 -1.87	22.49 1.28 -0.85	23.66 1.45 -0.52	24.24 1.44 -1.35	24.94 1.56 -0.12	28.20 1.69 -0.16	32.80 1.81 -2.78	35.97 1.77 -6.52	36.51 1.89 -4.21	35.73 1.67 -6.65	32.55 1.67 -4.33	24.91 1.29 -1.82	23.40 0.68 -11.08



MILLWOOD_13_KV_LOAD 356217	20.81 0.41 -13.20	19.55 0.40 -12.08	17.95 0.40 -10.36	16.37 0.40 -8.76	17.15 0.40 -9.55	19.86 0.45 -11.37	25.71 0.54 -15.92	28.14 0.66 -15.60	25.10 0.91 -9.32	22.17 0.97 -5.85	22.83 1.18 -2.85	22.60 1.27 -1.87	22.51 1.30 -0.85	23.68 1.47 -0.52	24.26 1.46 -1.35	24.97 1.58 -0.12	28.26 1.74 -0.16	32.86 1.86 -2.78	36.03 1.83 -6.52	36.57 1.95 -4.21	35.82 1.75 -6.65	32.61 1.73 -4.33	24.93 1.31 -1.82	23.41 0.69 -11.08
MODEL_CITY_ENERGY 24167	9.48 -0.03 -2.31	9.08 -0.10 -2.11	8.95 -0.06 -1.81	8.69 -0.04 -1.53	8.88 0.00 -1.67	9.93 -0.10 -1.99	11.75 -0.29 -2.78	13.85 -0.75 -2.73	15.53 -0.98 -1.64	15.28 -1.08 -1.00	17.97 -1.32 -0.49	18.34 -1.44 -0.32	19.18 -1.32 -0.15	20.56 -1.21 -0.09	20.59 -1.09 -0.23	22.07 -1.21 -0.02	24.85 -1.53 -0.03	26.89 -1.81 -0.47	26.85 -1.94 -1.11	29.23 -1.82 -0.64	26.80 -1.62 -1.01	25.98 -1.30 -0.74	21.39 -0.72 -0.31	13.32 -0.21 -1.89
MODERN_LFGE_ 323580	9.48 -0.03 -2.31	9.08 -0.10 -2.11	8.95 -0.06 -1.81	8.69 -0.04 -1.53	8.88 0.00 -1.67	9.93 -0.10 -1.99	11.75 -0.29 -2.78	13.85 -0.75 -2.73	15.53 -0.98 -1.64	15.28 -1.08 -1.00	17.97 -1.32 -0.49	18.34 -1.44 -0.32	19.18 -1.32 -0.15	20.56 -1.21 -0.09	20.59 -1.09 -0.23	22.07 -1.21 -0.02	24.85 -1.53 -0.03	26.89 -1.81 -0.47	26.85 -1.94 -1.11	29.23 -1.82 -0.64	26.80 -1.62 -1.01	25.98 -1.30 -0.74	21.39 -0.72 -0.31	13.32 -0.21 -1.89
MOHAWK_PAPER___DRP 24187	24.18 0.35 -16.62	22.61 0.33 -15.21	20.58 0.34 -13.05	18.58 0.34 -11.04	19.58 0.35 -12.03	22.75 0.39 -14.32	29.75 0.44 -20.06	32.06 0.53 -19.66	27.32 0.71 -11.74	23.41 0.69 -7.37	23.21 0.83 -3.58	22.70 0.88 -2.36	22.34 0.92 -1.07	23.42 1.08 -0.66	24.25 1.09 -1.70	24.62 1.21 -0.15	27.98 1.42 -0.20	33.24 1.52 -3.50	37.39 1.49 -8.22	41.88 1.70 -9.76	44.38 1.53 -15.43	33.52 1.51 -5.46	25.40 1.31 -2.29	26.21 0.61 -13.96
MOHICAN__35_KV_115KV_LD 80490	24.83 0.50 -17.11	23.19 0.45 -15.66	21.11 0.48 -13.43	19.03 0.46 -11.37	20.07 0.48 -12.38	23.35 0.56 -14.74	30.58 0.68 -20.65	32.92 0.82 -20.24	28.01 1.06 -12.08	23.92 0.98 -7.59	23.64 1.15 -3.69	23.10 1.21 -2.43	22.60 1.14 -1.10	23.70 1.34 -0.68	24.56 1.35 -1.75	24.86 1.44 -0.16	27.83 1.27 -0.21	33.20 1.38 -3.60	37.55 1.41 -8.46	44.91 1.61 -12.88	49.26 1.48 -20.37	33.52 1.35 -5.62	25.34 1.18 -2.36	26.49 0.48 -14.38
MONGAUP___HYD 23641	19.65 0.36 -12.08	18.48 0.35 -11.06	17.01 0.33 -9.48	15.55 0.33 -8.02	16.29 0.34 -8.74	18.82 0.37 -10.41	24.26 0.43 -14.58	26.68 0.52 -14.29	24.15 0.74 -8.53	21.46 0.75 -5.36	22.29 0.88 -2.61	22.11 0.93 -1.72	22.11 0.98 -0.78	23.29 1.13 -0.48	23.83 1.14 -1.24	24.65 1.28 -0.11	27.93 1.42 -0.15	32.37 1.61 -2.54	35.04 1.38 -5.97	35.68 1.40 -3.86	34.83 1.32 -6.11	31.95 1.43 -3.97	24.60 1.13 -1.67	22.36 0.57 -10.15
MONTAUK___DIESEL 23721	23.04 0.68 -15.15	20.62 0.71 -12.84	18.33 0.71 -10.42	19.02 0.72 -11.10	17.62 0.74 -9.68	20.46 0.80 -11.62	26.13 0.86 -16.02	28.61 1.04 -15.70	25.57 1.32 -9.38	25.33 1.47 -8.51	25.86 1.58 -5.48	26.02 1.71 -4.84	26.33 1.73 -4.25	27.19 2.30 -3.21	28.57 2.27 -4.84	31.01 2.51 -5.24	35.33 2.93 -6.05	43.06 3.02 -11.82	46.23 2.91 -15.65	42.22 3.25 -8.55	42.99 2.80 -12.78	35.40 2.84 -6.01	29.35 2.01 -5.54	24.83 1.07 -12.12
MOONROAD_115KV_HARTFLD_TB1-2 355988	10.12 0.23 -2.68	9.67 0.15 -2.45	9.49 0.19 -2.10	9.19 0.22 -1.78	9.42 0.28 -1.94	10.63 0.27 -2.31	12.72 0.24 -3.23	15.04 0.00 -3.17	16.79 0.03 -1.89	16.55 0.05 -1.15	19.32 -0.04 -0.56	19.83 0.00 -0.37	20.54 0.02 -0.17	22.17 0.39 -0.10	22.23 0.51 -0.27	23.99 0.70 -0.02	26.86 0.47 -0.03	29.16 0.40 -0.55	29.27 0.30 -1.28	31.90 0.73 -0.76	29.35 0.74 -1.20	27.77 0.37 -0.85	22.66 0.50 -0.36	14.14 0.31 -2.18
MORTIMER_115KV_TB3 55949	9.16 0.10 -1.85	8.80 0.04 -1.69	8.71 0.06 -1.45	8.50 0.07 -1.23	8.64 0.09 -1.34	9.74 0.10 -1.59	11.53 0.05 -2.23	13.94 -0.12 -2.19	15.99 -0.19 -1.31	15.90 -0.25 -0.80	18.83 -0.36 -0.39	19.31 -0.41 -0.25	20.10 -0.37 -0.12	21.60 -0.15 -0.07	21.53 -0.11 -0.18	23.09 -0.19 -0.02	26.11 -0.26 -0.02	28.20 -0.40 -0.38	28.15 -0.42 -0.89	30.42 -0.49 -0.49	27.85 -0.33 -0.77	27.03 -0.11 -0.59	22.18 0.13 -0.25	13.39 0.23 -1.51
MOTTHAVN_138_KV_9M4_REV_LBMP_J 345006	20.94 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.46 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.70	25.29 1.04 -9.38	22.34 1.11 -5.89	23.02 1.35 -2.86	22.79 1.44 -1.89	22.68 1.47 -0.86	23.88 1.67 -0.53	24.44 1.63 -1.36	25.13 1.74 -0.12	28.42 1.90 -0.16	33.02 2.00 -2.79	36.21 1.97 -6.56	36.74 2.10 -4.23	35.96 1.86 -6.69	32.79 1.88 -4.36	25.05 1.42 -1.83	23.56 0.77 -11.15
MUNSVILLE_WIND_PWR 323609	11.97 0.53 -4.24	11.42 0.47 -3.88	11.00 0.48 -3.33	10.53 0.52 -2.81	10.83 0.55 -3.07	12.38 0.68 -3.65	15.19 0.82 -5.11	17.76 0.88 -5.01	18.71 0.83 -3.00	17.80 0.80 -1.65	20.79 1.19 -0.80	21.30 1.30 -0.53	22.02 1.42 -0.24	23.37 1.54 -0.15	23.38 1.55 -0.38	25.09 1.79 -0.03	28.69 2.29 -0.05	31.77 2.77 -0.78	32.34 2.82 -1.84	34.96 3.41 -1.14	32.20 2.99 -1.80	30.24 2.47 -1.22	24.41 2.09 -0.51	15.92 1.15 -3.12
N SALMON___HYD 24042	7.24 0.03 0.00	7.14 0.06 0.00	7.24 0.04 0.00	7.26 0.06 0.00	7.26 0.06 0.00	8.11 0.06 0.00	9.38 0.13 0.00	12.13 0.26 0.00	15.10 0.22 0.00	15.66 0.31 0.00	19.08 0.28 0.00	19.66 0.19 0.00	20.52 0.16 0.00	21.70 0.02 0.00	21.39 -0.06 0.00	23.19 -0.07 0.00	26.36 0.00 0.00	28.33 0.11 0.00	27.96 0.28 0.00	30.69 0.27 0.00	27.66 0.25 0.00	26.49 -0.05 0.00	21.43 -0.37 0.00	11.37 -0.27 0.00
N.AKRON__115KV_KNAPP 355671	9.58 0.10 -2.27	9.18 0.03 -2.08	9.05 0.07 -1.78	8.80 0.09 -1.51	8.99 0.14 -1.64	10.08 0.07 -1.96	11.94 -0.06 -2.75	14.14 -0.43 -2.70	15.89 -0.59 -1.61	15.64 -0.69 -0.98	18.32 -0.96 -0.48	18.78 -0.99 -0.31	19.50 -1.00 -0.14	21.03 -0.74 -0.09	21.06 -0.62 -0.23	22.59 -0.70 -0.02	25.46 -0.92 -0.03	27.56 -1.13 -0.46	27.55 -1.22 -1.09	29.98 -1.06 -0.63	27.50 -0.90 -0.99	26.61 -0.66 -0.73	21.98 -0.13 -0.30	13.59 0.09 -1.85
N.BELMOR_69_KV_BK1 55787	22.92 0.56 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.85 0.55 -11.10	17.44 0.55 -9.68	20.28 0.62 -11.62	25.98 0.71 -16.02	28.47 0.90 -15.70	25.47 1.22 -9.38	25.17 1.30 -8.51	25.81 1.52 -5.48	25.94 1.63 -4.84	26.27 1.67 -4.25	26.84 1.95 -3.21	28.23 1.93 -4.84	30.57 2.07 -5.24	34.67 2.27 -6.05	42.47 2.43 -11.82	45.71 2.38 -15.65	41.55 2.59 -8.55	42.50 2.30 -12.78	34.84 2.28 -6.01	29.11 1.77 -5.54	24.71 0.95 -12.12
N.E._GEN_SANDY PD 24062	22.55 0.29 -15.05	21.14 0.29 -13.78	19.31 0.30 -11.81	17.50 0.30 -10.00	18.40 0.30 -10.89	21.35 0.34 -12.97	27.79 0.37 -18.16	30.12 0.45 -17.80	26.10 0.60 -10.63	22.66 0.63 -6.67	22.78 0.73 -3.25	22.38 0.78 -2.14	22.14 0.81 -0.97	23.23 0.95 -0.60	23.94 0.94 -1.54	24.40 1.00 -0.14	27.67 1.13 -0.18	32.60 1.21 -3.17	36.28 1.16 -7.44	37.61 1.31 -5.89	37.90 1.18 -9.31	32.74 1.25 -4.94	24.97 1.09 -2.07	24.83 0.55 -12.64



N.HEMPST_138_KV_BK345_REV_LBMP_G 345014	20.39 0.40 -12.78	19.16 0.39 -11.70	17.62 0.39 -10.03	16.08 0.39 -8.49	16.84 0.39 -9.25	19.49 0.43 -11.01	25.18 0.51 -15.42	27.62 0.64 -15.11	24.81 0.91 -9.03	21.99 0.97 -5.67	22.74 1.18 -2.76	22.52 1.25 -1.82	22.48 1.30 -0.83	23.64 1.45 -0.51	24.20 1.44 -1.31	24.94 1.56 -0.12	28.23 1.71 -0.16	32.74 1.83 -2.69	35.77 1.77 -6.32	36.35 1.86 -4.08	35.53 1.67 -6.45	32.39 1.65 -4.20	24.83 1.26 -1.76	23.05 0.68 -10.74
N.QUEENS_27_KV_LOAD 356247	21.02 0.53 -13.28	19.75 0.52 -12.16	18.16 0.53 -10.43	16.56 0.54 -8.82	17.36 0.54 -9.61	20.04 0.56 -11.43	25.87 0.60 -16.02	28.34 0.77 -15.70	25.33 1.09 -9.38	22.41 1.17 -5.89	23.09 1.43 -2.86	22.87 1.52 -1.89	22.77 1.57 -0.85	23.98 1.78 -0.52	24.56 1.76 -1.35	25.24 1.86 -0.11	28.49 1.98 -0.15	33.07 2.06 -2.78	36.25 2.02 -6.55	36.77 2.13 -4.23	36.02 1.92 -6.69	32.82 1.91 -4.36	25.11 1.48 -1.83	23.67 0.87 -11.16
N.TROY___115KV_TB1 355778	24.23 0.32 -16.71	22.66 0.30 -15.29	20.62 0.31 -13.11	18.61 0.31 -11.10	19.61 0.32 -12.09	22.79 0.35 -14.39	29.82 0.41 -20.16	32.11 0.49 -19.76	27.29 0.62 -11.80	23.37 0.61 -7.40	23.14 0.73 -3.60	22.59 0.76 -2.37	22.23 0.79 -1.08	23.27 0.93 -0.66	24.11 0.94 -1.71	24.44 1.02 -0.15	27.72 1.16 -0.20	32.98 1.24 -3.51	37.13 1.19 -8.26	42.89 1.37 -11.10	46.23 1.26 -17.56	33.31 1.27 -5.49	25.22 1.11 -2.30	26.20 0.52 -14.03
NARROWS_GT1_1 24228	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT1_2 24229	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT1_3 24230	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT1_4 24231	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT1_5 24232	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT1_6 24233	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT1_7 24234	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT1_8 24235	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT2_1 24236	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT2_2 24237	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT2_3 24238	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT2_4 24239	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16



NARROWS_GT2_5 24240	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT2_6 24241	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT2_7 24242	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NARROWS_GT2_8 24243	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NCATSKLL_69_KV_NC-LINE_REV_LBMP_G 345022	23.05 0.36 -15.48	21.57 0.33 -14.17	19.69 0.34 -12.15	17.81 0.33 -10.28	18.75 0.35 -11.20	21.77 0.39 -13.33	28.37 0.44 -18.67	30.69 0.52 -18.30	26.52 0.71 -10.93	22.84 0.63 -6.86	22.85 0.71 -3.34	22.38 0.72 -2.20	22.11 0.75 -1.00	23.23 0.93 -0.61	24.02 0.99 -1.58	24.66 1.26 -0.14	27.92 1.37 -0.19	33.03 1.55 -3.26	36.88 1.55 -7.65	38.94 1.70 -6.82	39.79 1.59 -10.79	33.14 1.51 -5.08	25.20 1.26 -2.13	25.20 0.56 -13.00
NCHELSEA_115KV_TR2 355582	20.86 0.41 -13.24	19.59 0.40 -12.12	17.99 0.40 -10.39	16.39 0.40 -8.79	17.18 0.40 -9.58	19.89 0.44 -11.41	25.74 0.51 -15.97	28.15 0.63 -15.66	25.12 0.89 -9.35	22.16 0.94 -5.87	22.80 1.15 -2.86	22.55 1.21 -1.88	22.45 1.24 -0.85	23.61 1.41 -0.53	24.20 1.39 -1.36	24.94 1.56 -0.12	28.20 1.69 -0.16	32.84 1.83 -2.79	36.02 1.80 -6.54	36.50 1.82 -4.26	35.85 1.70 -6.74	32.54 1.65 -4.35	24.91 1.29 -1.82	23.43 0.66 -11.12
NEG CAPITAL___MECHNVIL 23645	24.60 0.42 -16.97	22.99 0.38 -15.53	20.92 0.40 -13.32	18.86 0.39 -11.27	19.90 0.41 -12.28	23.13 0.47 -14.62	30.28 0.55 -20.48	32.59 0.65 -20.07	27.72 0.86 -11.98	23.69 0.81 -7.52	23.42 0.96 -3.66	22.89 1.01 -2.41	22.47 1.02 -1.10	23.57 1.21 -0.67	24.41 1.22 -1.74	24.77 1.35 -0.15	28.06 1.50 -0.21	33.43 1.64 -3.57	37.67 1.60 -8.39	44.61 1.82 -12.37	48.61 1.64 -19.56	33.69 1.57 -5.57	25.45 1.31 -2.34	26.49 0.59 -14.26
NEG CENTRAL_HIGH_ACRES 23767	8.95 -0.04 -1.78	8.61 -0.09 -1.63	8.53 -0.07 -1.40	8.33 -0.06 -1.19	8.46 -0.04 -1.29	9.54 -0.04 -1.54	11.33 -0.07 -2.15	13.73 -0.25 -2.11	15.78 -0.36 -1.26	15.72 -0.40 -0.77	18.69 -0.49 -0.37	19.16 -0.54 -0.25	20.00 -0.47 -0.11	21.36 -0.39 -0.07	21.27 -0.36 -0.18	22.84 -0.44 -0.02	25.87 -0.50 -0.02	27.96 -0.62 -0.36	27.87 -0.66 -0.86	30.12 -0.76 -0.46	27.51 -0.63 -0.73	26.66 -0.45 -0.57	21.80 -0.24 -0.24	13.13 0.04 -1.46
NEG CENTRAL___DRP 24199	8.94 0.01 -1.72	8.62 -0.03 -1.57	8.53 -0.01 -1.35	8.33 -0.01 -1.14	8.47 0.01 -1.24	9.57 0.04 -1.48	11.36 0.04 -2.07	13.85 -0.05 -2.03	15.98 -0.10 -1.22	15.96 -0.14 -0.74	19.03 -0.13 -0.36	19.56 -0.14 -0.24	20.34 -0.12 -0.11	21.72 -0.02 -0.07	21.62 0.00 -0.17	23.28 0.00 -0.02	26.38 0.00 -0.02	28.52 -0.06 -0.35	28.42 -0.08 -0.83	30.77 -0.09 -0.44	28.08 -0.03 -0.70	27.10 0.00 -0.55	22.10 0.07 -0.23	13.18 0.14 -1.40
NEG CENTRAL___INDECK 23768	10.27 0.53 -2.53	9.84 0.45 -2.32	9.67 0.48 -1.99	9.39 0.51 -1.68	9.57 0.53 -1.83	10.87 0.64 -2.18	13.00 0.69 -3.06	15.51 0.64 -3.00	17.25 0.58 -1.80	16.92 0.48 -1.09	20.01 0.68 -0.53	20.49 0.68 -0.35	21.31 0.79 -0.16	22.71 0.93 -0.10	22.71 1.01 -0.25	24.56 1.28 -0.02	26.75 0.37 -0.03	29.16 0.42 -0.52	29.36 0.47 -1.21	31.88 0.76 -0.71	29.35 0.82 -1.12	28.21 0.82 -0.84	23.03 0.87 -0.35	14.42 0.63 -2.15
NEG CENTRAL___SENECA 23627	8.97 0.03 -1.73	8.64 -0.02 -1.59	8.56 0.00 -1.36	8.36 0.01 -1.15	8.49 0.03 -1.25	9.60 0.06 -1.49	11.39 0.05 -2.09	13.86 -0.06 -2.05	15.98 -0.12 -1.23	15.95 -0.15 -0.75	18.98 -0.19 -0.36	19.53 -0.18 -0.24	20.30 -0.16 -0.11	21.70 -0.04 -0.07	21.60 -0.02 -0.17	23.23 -0.05 -0.02	26.35 -0.03 -0.02	28.46 -0.11 -0.35	28.37 -0.14 -0.83	30.68 -0.18 -0.45	28.04 -0.08 -0.71	27.07 -0.03 -0.55	22.12 0.09 -0.23	13.22 0.16 -1.41
NEG CENTRAL___STATE_STREET 24147	9.14 0.05 -1.88	8.82 0.03 -1.72	8.71 0.04 -1.48	8.49 0.04 -1.25	8.61 0.04 -1.36	9.74 0.07 -1.62	11.62 0.10 -2.27	14.17 0.07 -2.23	16.25 0.04 -1.33	16.19 0.03 -0.81	19.29 0.09 -0.39	19.86 0.14 -0.26	20.63 0.16 -0.12	22.10 0.35 -0.07	22.01 0.36 -0.19	23.72 0.44 -0.02	26.85 0.47 -0.02	29.06 0.45 -0.38	28.97 0.39 -0.90	31.37 0.46 -0.50	28.66 0.47 -0.78	27.54 0.40 -0.60	22.29 0.24 -0.25	13.38 0.21 -1.53
NEG MILLWOOD___DRP 24198	21.03 0.43 -13.40	19.74 0.41 -12.26	18.11 0.40 -10.51	16.51 0.41 -8.90	17.29 0.40 -9.69	20.06 0.47 -11.54	25.97 0.56 -16.16	28.36 0.65 -15.84	25.24 0.91 -9.46	22.23 0.94 -5.94	22.86 1.17 -2.89	22.59 1.23 -1.90	22.50 1.28 -0.86	23.66 1.45 -0.53	24.26 1.44 -1.37	24.99 1.61 -0.12	28.29 1.77 -0.16	32.96 1.92 -2.82	36.21 1.91 -6.62	36.71 2.01 -4.29	36.03 1.84 -6.79	32.72 1.78 -4.40	25.00 1.35 -1.85	23.57 0.68 -11.25
NEG NORTH_FLCN_SEA 23793	7.31 0.10 0.00	7.21 0.14 0.00	7.33 0.13 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.47 0.22 0.00	12.24 0.37 0.00	15.23 0.36 0.00	15.80 0.45 0.00	19.25 0.45 0.00	19.83 0.37 0.00	20.74 0.39 0.00	21.98 0.30 0.00	21.73 0.28 0.00	23.52 0.26 0.00	26.72 0.37 0.00	28.76 0.54 0.00	28.34 0.66 0.00	31.11 0.70 0.00	28.01 0.60 0.00	26.79 0.24 0.00	21.56 -0.24 0.00	11.41 -0.23 0.00
NEG NORTH_KES_CHATEGAY 23792	7.22 0.01 0.00	7.12 0.05 0.00	7.24 0.04 0.00	7.24 0.04 0.00	7.25 0.04 0.00	8.10 0.05 0.00	9.34 0.08 0.00	12.06 0.19 0.00	15.02 0.15 0.00	15.57 0.21 0.00	18.97 0.17 0.00	19.54 0.08 0.00	20.46 0.10 0.00	21.70 0.02 0.00	21.43 -0.02 0.00	23.24 -0.02 0.00	26.38 0.03 0.00	28.39 0.17 0.00	27.98 0.30 0.00	30.72 0.30 0.00	27.63 0.22 0.00	26.44 -0.11 0.00	21.32 -0.48 0.00	11.27 -0.37 0.00



NEG NORTH___ALICE_FALLS 23915	7.31 0.10 0.00	7.21 0.14 0.00	7.32 0.12 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.48 0.23 0.00	12.25 0.38 0.00	15.24 0.37 0.00	15.81 0.46 0.00	19.27 0.47 0.00	19.83 0.37 0.00	20.72 0.37 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.75 0.40 0.00	28.81 0.59 0.00	28.43 0.75 0.00	31.21 0.79 0.00	28.07 0.66 0.00	26.81 0.27 0.00	21.56 -0.24 0.00	11.42 -0.22 0.00
NEG NORTH___LWR_SARANAC 23913	7.31 0.10 0.00	7.21 0.14 0.00	7.32 0.12 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.48 0.23 0.00	12.25 0.38 0.00	15.24 0.37 0.00	15.81 0.46 0.00	19.27 0.47 0.00	19.83 0.37 0.00	20.72 0.37 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.75 0.40 0.00	28.81 0.59 0.00	28.43 0.75 0.00	31.21 0.79 0.00	28.07 0.66 0.00	26.81 0.27 0.00	21.56 -0.24 0.00	11.42 -0.22 0.00
NEG NORTH___PLATTSBURG 23628	7.31 0.10 0.00	7.21 0.14 0.00	7.32 0.12 0.00	7.34 0.14 0.00	7.34 0.14 0.00	8.20 0.15 0.00	9.47 0.22 0.00	12.25 0.38 0.00	15.24 0.37 0.00	15.81 0.46 0.00	19.27 0.47 0.00	19.83 0.37 0.00	20.72 0.37 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.75 0.40 0.00	28.81 0.59 0.00	28.43 0.75 0.00	31.20 0.79 0.00	28.07 0.66 0.00	26.81 0.27 0.00	21.56 -0.24 0.00	11.42 -0.22 0.00
NEG WEST_LEA_LOCKPORT 23791	9.54 0.04 -2.29	9.14 -0.03 -2.10	9.01 0.01 -1.80	8.75 0.03 -1.52	8.95 0.08 -1.66	10.03 0.00 -1.98	11.88 -0.15 -2.78	14.04 -0.55 -2.72	15.77 -0.73 -1.63	15.53 -0.81 -0.99	18.15 -1.13 -0.48	18.63 -1.15 -0.32	19.36 -1.14 -0.14	20.88 -0.89 -0.09	20.91 -0.77 -0.23	22.42 -0.86 -0.02	25.28 -1.11 -0.03	27.33 -1.35 -0.47	27.31 -1.47 -1.10	29.68 -1.37 -0.63	27.26 -1.15 -1.00	26.38 -0.90 -0.73	21.76 -0.35 -0.31	13.51 0.00 -1.87
NEG WEST___LANCASTR 23811	9.82 -0.04 -2.65	9.40 -0.10 -2.43	9.22 -0.06 -2.08	8.91 -0.05 -1.76	9.13 0.00 -1.92	10.29 -0.05 -2.29	12.32 -0.14 -3.20	14.55 -0.46 -3.14	16.14 -0.61 -1.88	15.83 -0.66 -1.14	18.44 -0.92 -0.56	18.93 -0.90 -0.37	19.60 -0.92 -0.17	21.13 -0.65 -0.10	21.20 -0.51 -0.26	23.26 -0.02 -0.02	25.65 -0.74 -0.03	27.80 -0.96 -0.54	27.90 -1.05 -1.27	30.89 -0.27 -0.75	28.43 -0.16 -1.19	26.62 -0.77 -0.84	21.81 -0.35 -0.35	13.75 -0.05 -2.16
NEG_PENN_ALLEGHNY 23528	11.84 0.15 -4.48	11.28 0.11 -4.10	10.84 0.13 -3.51	10.32 0.14 -2.97	10.60 0.15 -3.24	12.08 0.18 -3.86	14.85 0.19 -5.40	17.29 0.13 -5.29	18.19 0.15 -3.17	17.41 0.15 -1.91	19.95 0.23 -0.93	20.33 0.25 -0.61	20.94 0.31 -0.28	22.26 0.41 -0.17	22.34 0.45 -0.44	23.88 0.58 -0.04	26.99 0.58 -0.05	29.69 0.56 -0.90	30.33 0.52 -2.12	32.45 0.70 -1.33	30.18 0.66 -2.11	28.51 0.56 -1.41	22.92 0.52 -0.59	15.59 0.35 -3.60
NEG___GEN_MONROE 24207	9.23 0.17 -1.85	8.85 0.08 -1.69	8.75 0.10 -1.45	8.55 0.12 -1.23	8.69 0.14 -1.34	9.81 0.17 -1.59	11.59 0.11 -2.23	14.03 -0.02 -2.19	16.08 -0.10 -1.31	16.00 -0.15 -0.80	18.91 -0.28 -0.39	19.41 -0.31 -0.25	20.18 -0.28 -0.12	21.60 -0.15 -0.07	21.51 -0.13 -0.18	23.07 -0.21 -0.02	26.11 -0.26 -0.02	28.20 -0.40 -0.38	28.18 -0.39 -0.89	30.54 -0.36 -0.49	27.99 -0.19 -0.77	27.22 0.08 -0.59	22.36 0.31 -0.25	13.49 0.34 -1.51
NEPA___ENERGY 23901	10.08 0.19 -2.69	9.65 0.12 -2.46	9.47 0.17 -2.11	9.16 0.18 -1.78	9.37 0.22 -1.94	10.56 0.20 -2.32	12.65 0.16 -3.24	14.95 -0.09 -3.18	16.62 -0.15 -1.90	16.32 -0.18 -1.16	19.04 -0.32 -0.56	19.54 -0.29 -0.37	20.24 -0.28 -0.17	21.83 0.04 -0.10	21.89 0.17 -0.27	23.64 0.35 -0.02	26.47 0.08 -0.03	28.71 -0.06 -0.55	28.80 -0.17 -1.29	31.39 0.21 -0.76	28.89 0.27 -1.20	27.53 0.13 -0.85	22.51 0.35 -0.36	14.15 0.33 -2.18
NEVERSINK___HYD 23608	19.34 0.35 -11.79	18.20 0.34 -10.79	16.78 0.32 -9.25	15.36 0.33 -7.83	16.07 0.33 -8.53	18.56 0.36 -10.16	23.90 0.43 -14.22	26.32 0.51 -13.94	23.97 0.77 -8.33	21.37 0.78 -5.23	22.30 0.96 -2.54	22.15 1.01 -1.68	22.15 1.04 -0.76	23.30 1.15 -0.47	23.24 0.58 -1.21	24.05 0.68 -0.11	27.18 0.68 -0.14	31.58 0.88 -2.48	34.37 0.86 -5.83	35.14 0.76 -3.97	35.11 1.42 -6.27	31.75 1.33 -3.87	24.54 1.11 -1.63	22.11 0.56 -9.91
NEWKRMKL_115KV_TB1 55635	24.18 0.33 -16.64	22.61 0.31 -15.23	20.58 0.32 -13.06	18.58 0.32 -11.05	19.58 0.33 -12.04	22.75 0.37 -14.34	29.75 0.42 -20.08	32.04 0.50 -19.68	27.29 0.67 -11.75	23.39 0.66 -7.38	23.20 0.81 -3.59	22.66 0.84 -2.36	22.30 0.88 -1.07	23.36 1.02 -0.66	24.21 1.05 -1.70	24.58 1.16 -0.15	27.93 1.37 -0.20	33.16 1.44 -3.50	37.31 1.41 -8.22	41.37 1.55 -9.40	43.71 1.43 -14.87	33.44 1.43 -5.46	25.32 1.22 -2.29	26.20 0.58 -13.98
NEWTON___FALLS_HYD 23847	7.59 -0.06 -0.45	7.43 -0.06 -0.41	7.49 -0.06 -0.35	7.45 -0.05 -0.30	7.49 -0.04 -0.32	8.42 -0.02 -0.39	9.81 0.02 -0.54	12.42 0.02 -0.53	15.10 -0.09 -0.32	15.42 -0.12 -0.19	18.74 -0.15 -0.09	19.33 -0.19 -0.06	20.16 -0.22 -0.03	21.31 -0.39 -0.02	20.96 -0.54 -0.04	22.69 -0.58 0.00	25.86 -0.50 -0.01	27.89 -0.42 -0.09	27.56 -0.33 -0.22	30.14 -0.27 0.00	27.22 -0.19 0.00	26.50 -0.19 -0.14	21.73 -0.13 -0.06	11.94 -0.07 -0.37
NGRID_A1_DSASP 323792	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.65 -0.09 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.79 -0.27 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.99 -1.30 -0.49	18.36 -1.42 -0.32	19.20 -1.30 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.03 -1.26 -0.02	24.85 -1.53 -0.03	26.83 -1.86 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.44 -0.68 -0.31	13.41 -0.12 -1.88
NGRID_A2_DSASP 323793	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.65 -0.09 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.79 -0.27 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.99 -1.30 -0.49	18.36 -1.42 -0.32	19.20 -1.30 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.03 -1.26 -0.02	24.85 -1.53 -0.03	26.83 -1.86 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.44 -0.68 -0.31	13.41 -0.12 -1.88
NGRID_A4_DSASP 323807	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.65 -0.09 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.79 -0.27 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.99 -1.30 -0.49	18.36 -1.42 -0.32	19.20 -1.30 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.03 -1.26 -0.02	24.85 -1.53 -0.03	26.83 -1.86 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.44 -0.68 -0.31	13.41 -0.12 -1.88
NIAGARA_115E_LBMP 323715	9.46 -0.06 -2.32	9.06 -0.13 -2.12	8.93 -0.09 -1.82	8.67 -0.07 -1.54	8.85 -0.04 -1.68	9.89 -0.15 -2.00	11.70 -0.35 -2.80	13.77 -0.84 -2.74	15.42 -1.10 -1.65	15.16 -1.20 -1.01	17.82 -1.47 -0.49	18.21 -1.58 -0.32	19.01 -1.48 -0.15	20.40 -1.37 -0.09	20.44 -1.24 -0.23	21.91 -1.37 -0.02	24.67 -1.71 -0.03	26.69 -2.00 -0.48	26.64 -2.16 -1.12	28.99 -2.07 -0.64	26.59 -1.84 -1.02	25.80 -1.49 -0.74	21.24 -0.87 -0.31	13.24 -0.30 -1.90



NIAGARA_115W_LBMP 323714	9.42 -0.11 -2.32	9.03 -0.17 -2.12	8.89 -0.13 -1.82	8.63 -0.11 -1.54	8.81 -0.07 -1.68	9.90 -0.14 -2.00	11.76 -0.30 -2.80	13.88 -0.74 -2.74	15.55 -0.97 -1.64	15.32 -1.03 -1.00	17.93 -1.35 -0.49	18.32 -1.46 -0.32	19.14 -1.36 -0.15	20.53 -1.23 -0.09	20.55 -1.14 -0.23	21.98 -1.30 -0.02	24.80 -1.58 -0.03	26.77 -1.92 -0.47	26.83 -1.96 -1.11	28.98 -2.07 -0.64	26.72 -1.70 -1.01	25.96 -1.33 -0.74	21.39 -0.72 -0.31	13.38 -0.14 -1.88
NIAGARA_230_LBMP 323716	9.48 -0.01 -2.29	9.09 -0.08 -2.09	8.95 -0.04 -1.80	8.70 -0.02 -1.52	8.88 0.01 -1.65	9.98 -0.04 -1.97	11.86 -0.15 -2.76	14.04 -0.53 -2.70	15.76 -0.73 -1.61	15.54 -0.80 -0.98	18.21 -1.07 -0.48	18.61 -1.17 -0.31	19.44 -1.06 -0.14	20.84 -0.93 -0.09	20.84 -0.84 -0.23	22.33 -0.95 -0.02	25.17 -1.21 -0.03	27.16 -1.52 -0.47	27.23 -1.55 -1.10	29.46 -1.58 -0.63	27.11 -1.29 -0.99	26.32 -0.95 -0.73	21.67 -0.44 -0.30	13.52 0.02 -1.86
NIAGARA__115KV_198_GIBSON 55903	9.42 -0.11 -2.32	9.03 -0.17 -2.12	8.89 -0.13 -1.82	8.63 -0.12 -1.54	8.81 -0.07 -1.68	9.90 -0.14 -2.00	11.75 -0.31 -2.80	13.88 -0.74 -2.74	15.54 -0.97 -1.64	15.32 -1.03 -1.00	17.86 -1.43 -0.49	18.32 -1.46 -0.32	18.99 -1.51 -0.15	20.53 -1.24 -0.09	20.55 -1.14 -0.23	21.98 -1.30 -0.02	24.80 -1.58 -0.03	26.77 -1.92 -0.47	26.82 -1.97 -1.11	29.02 -2.04 -0.64	26.72 -1.70 -1.01	25.93 -1.35 -0.74	21.44 -0.68 -0.31	13.38 -0.14 -1.88
NIAGARA____ 23760	9.44 -0.09 -2.32	9.04 -0.16 -2.12	8.90 -0.12 -1.82	8.65 -0.09 -1.54	8.83 -0.06 -1.68	9.90 -0.14 -2.00	11.73 -0.32 -2.80	13.88 -0.72 -2.73	15.57 -0.94 -1.64	15.35 -1.00 -1.00	18.01 -1.28 -0.48	18.42 -1.36 -0.32	19.24 -1.26 -0.14	20.62 -1.15 -0.09	20.65 -1.03 -0.23	22.12 -1.16 -0.02	24.93 -1.45 -0.03	26.94 -1.75 -0.47	26.96 -1.83 -1.11	29.23 -1.82 -0.63	26.85 -1.56 -1.00	26.09 -1.19 -0.73	21.43 -0.68 -0.31	13.31 -0.22 -1.89
NINE_MILE_1 23575	8.18 -0.18 -1.15	7.93 -0.20 -1.06	7.91 -0.19 -0.91	7.78 -0.19 -0.77	7.86 -0.18 -0.84	8.85 -0.19 -0.99	10.41 -0.23 -1.39	12.88 -0.36 -1.37	15.21 -0.48 -0.82	15.35 -0.51 -0.50	18.46 -0.58 -0.24	19.00 -0.62 -0.16	19.82 -0.61 -0.07	21.07 -0.65 -0.04	20.93 -0.64 -0.12	22.58 -0.70 -0.01	25.58 -0.79 -0.01	27.58 -0.88 -0.24	27.35 -0.89 -0.56	29.44 -0.97 0.00	26.56 -0.85 0.00	26.12 -0.80 -0.37	21.37 -0.59 -0.15	12.35 -0.23 -0.94
NINE_MILE_2 23744	8.18 -0.18 -1.15	7.93 -0.20 -1.06	7.91 -0.19 -0.91	7.78 -0.19 -0.77	7.86 -0.18 -0.83	8.85 -0.19 -0.99	10.41 -0.23 -1.39	12.88 -0.36 -1.36	15.21 -0.48 -0.82	15.34 -0.51 -0.50	18.46 -0.58 -0.24	19.00 -0.62 -0.16	19.82 -0.61 -0.07	21.07 -0.65 -0.04	20.93 -0.64 -0.12	22.58 -0.70 -0.01	25.58 -0.79 -0.01	27.58 -0.88 -0.24	27.35 -0.89 -0.56	29.44 -0.97 0.00	26.56 -0.85 0.00	26.12 -0.80 -0.37	21.37 -0.59 -0.15	12.35 -0.23 -0.94
NM_CAPITAL____DRP 24208	23.94 0.30 -16.43	22.40 0.29 -15.04	20.40 0.30 -12.90	18.41 0.30 -10.91	19.40 0.30 -11.89	22.54 0.34 -14.15	29.45 0.37 -19.82	31.75 0.45 -19.43	27.08 0.61 -11.60	23.23 0.60 -7.28	23.08 0.73 -3.54	22.55 0.76 -2.33	22.23 0.81 -1.06	23.29 0.95 -0.65	24.10 0.97 -1.68	24.48 1.07 -0.15	27.80 1.24 -0.20	32.95 1.27 -3.46	37.02 1.22 -8.12	40.32 1.37 -8.54	42.17 1.26 -13.50	33.24 1.30 -5.39	25.22 1.16 -2.26	26.00 0.56 -13.80
NM_CENTRAL____DRP 24181	8.60 -0.03 -1.42	8.32 -0.06 -1.30	8.27 -0.04 -1.12	8.10 -0.04 -0.95	8.21 -0.03 -1.03	9.25 -0.02 -1.23	10.94 -0.03 -1.72	13.45 -0.11 -1.68	15.73 -0.15 -1.01	15.80 -0.17 -0.61	18.93 -0.17 -0.30	19.50 -0.16 -0.20	20.28 -0.16 -0.09	21.60 -0.13 -0.05	21.49 -0.11 -0.14	23.18 -0.09 -0.01	26.27 -0.11 -0.02	28.34 -0.17 -0.29	28.14 -0.22 -0.68	30.55 -0.21 -0.35	27.80 -0.16 -0.55	26.82 -0.19 -0.45	21.93 -0.07 -0.19	12.85 0.05 -1.16
NM_FRONTIER____DRP 24179	9.42 -0.11 -2.32	9.03 -0.17 -2.12	8.89 -0.13 -1.82	8.63 -0.12 -1.54	8.81 -0.07 -1.68	9.90 -0.14 -2.00	11.75 -0.31 -2.80	13.88 -0.74 -2.74	15.54 -0.97 -1.64	15.32 -1.03 -1.00	17.86 -1.43 -0.49	18.32 -1.46 -0.32	18.99 -1.51 -0.15	20.53 -1.24 -0.09	20.55 -1.14 -0.23	21.98 -1.30 -0.02	24.80 -1.58 -0.03	26.77 -1.92 -0.47	26.82 -1.97 -1.11	29.02 -2.04 -0.64	26.72 -1.70 -1.01	25.93 -1.35 -0.74	21.44 -0.68 -0.31	13.38 -0.14 -1.88
NM_ST_REGIS____HYD 24053	7.09 -0.12 0.00	6.99 -0.08 0.00	7.10 -0.10 0.00	7.11 -0.09 0.00	7.11 -0.09 0.00	7.95 -0.10 0.00	9.19 -0.06 0.00	11.86 -0.01 0.00	14.75 -0.12 0.00	15.28 -0.08 0.00	18.65 -0.15 0.00	19.25 -0.21 0.00	20.11 -0.24 0.00	21.18 -0.50 0.00	20.75 -0.71 0.00	22.47 -0.79 0.00	25.56 -0.79 0.00	27.43 -0.79 0.00	27.02 -0.66 0.00	29.71 -0.70 0.00	26.83 -0.58 0.00	25.96 -0.58 0.00	21.21 -0.59 0.00	11.29 -0.35 0.00
NORTHPORT____1 23551	22.86 0.50 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.41 0.52 -9.68	20.23 0.57 -11.62	25.92 0.65 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.04 1.18 -8.51	25.62 1.33 -5.48	25.76 1.46 -4.84	26.07 1.47 -4.25	26.69 1.80 -3.21	28.01 1.72 -4.84	30.32 1.82 -5.24	34.47 2.06 -6.05	42.22 2.17 -11.82	45.43 2.10 -15.65	41.24 2.28 -8.55	42.22 2.03 -12.78	34.57 2.02 -6.01	28.89 1.55 -5.54	24.61 0.85 -12.12
NORTHPORT____2 23552	22.82 0.47 -15.15	20.39 0.47 -12.84	18.09 0.47 -10.42	18.77 0.48 -11.10	17.37 0.48 -9.68	20.19 0.53 -11.62	25.87 0.60 -16.02	28.32 0.75 -15.70	25.26 1.01 -9.38	24.97 1.11 -8.51	25.52 1.24 -5.48	25.66 1.36 -4.84	25.96 1.36 -4.25	26.58 1.69 -3.21	27.86 1.57 -4.84	30.12 1.63 -5.23	34.24 1.84 -6.04	41.98 1.95 -11.81	45.20 1.88 -15.64	41.02 2.07 -8.54	41.99 1.81 -12.77	34.35 1.81 -6.00	28.71 1.37 -5.53	24.55 0.79 -12.12
NORTHPORT____3 23553	22.95 0.59 -15.15	20.49 0.58 -12.84	18.20 0.58 -10.42	18.89 0.59 -11.10	17.48 0.59 -9.68	20.32 0.66 -11.62	26.02 0.75 -16.02	28.52 0.95 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.86 1.58 -5.48	26.00 1.69 -4.84	26.33 1.73 -4.25	26.95 2.06 -3.21	28.31 2.02 -4.84	30.55 2.05 -5.24	34.70 2.29 -6.05	42.47 2.43 -11.82	45.71 2.38 -15.65	41.51 2.56 -8.55	42.46 2.27 -12.78	34.81 2.26 -6.01	29.20 1.85 -5.54	24.76 1.00 -12.12
NORTHPORT____4 23650	22.95 0.59 -15.15	20.49 0.58 -12.84	18.20 0.58 -10.42	18.89 0.59 -11.10	17.48 0.59 -9.68	20.32 0.66 -11.62	26.02 0.75 -16.02	28.52 0.95 -15.70	25.51 1.26 -9.38	25.23 1.37 -8.51	25.86 1.58 -5.48	26.00 1.69 -4.84	26.33 1.73 -4.25	26.95 2.06 -3.21	28.31 2.02 -4.84	30.55 2.05 -5.24	34.70 2.29 -6.05	42.47 2.43 -11.82	45.71 2.38 -15.65	41.51 2.56 -8.55	42.46 2.27 -12.78	34.81 2.26 -6.01	29.20 1.85 -5.54	24.76 1.00 -12.12
NORTHPORT____IC 23718	22.86 0.50 -15.15	20.42 0.51 -12.84	18.13 0.51 -10.42	18.81 0.51 -11.10	17.41 0.52 -9.68	20.23 0.57 -11.62	25.92 0.65 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.04 1.18 -8.51	25.62 1.33 -5.48	25.76 1.46 -4.84	26.07 1.47 -4.25	26.69 1.80 -3.21	28.01 1.72 -4.84	30.32 1.82 -5.24	34.47 2.06 -6.05	42.22 2.17 -11.82	45.43 2.10 -15.65	41.24 2.28 -8.55	42.22 2.03 -12.78	34.57 2.02 -6.01	28.89 1.55 -5.54	24.61 0.85 -12.12



NORTH__COUNTRY_ESR 323785	7.20 -0.01 0.00	7.10 0.03 0.00	7.21 0.01 0.00	7.22 0.02 0.00	7.23 0.02 0.00	8.06 0.02 0.00	9.31 0.06 0.00	12.03 0.17 0.00	14.99 0.12 0.00	15.54 0.18 0.00	18.95 0.15 0.00	19.54 0.08 0.00	20.41 0.06 0.00	21.66 -0.02 0.00	21.39 -0.06 0.00	23.17 -0.09 0.00	26.33 -0.03 0.00	28.31 0.08 0.00	27.87 0.20 0.00	30.60 0.18 0.00	27.52 0.11 0.00	26.36 -0.18 0.00	21.26 -0.54 0.00	11.25 -0.40 0.00
NPX_GEN_1385_PROXY 323591	22.82 0.47 -15.15	20.39 0.47 -12.84	18.09 0.47 -10.42	18.77 0.48 -11.10	17.37 0.48 -9.68	20.19 0.53 -11.62	25.87 0.60 -16.02	28.32 0.75 -15.70	25.26 1.01 -9.38	24.97 1.11 -8.51	25.52 1.24 -5.48	25.66 1.36 -4.84	25.96 1.36 -4.25	26.63 1.74 -3.21	27.90 1.61 -4.84	30.17 1.68 -5.23	34.30 1.90 -6.04	42.04 2.00 -11.81	45.26 1.94 -15.64	41.08 2.13 -8.54	42.05 1.86 -12.77	34.41 1.86 -6.00	28.71 1.37 -5.53	24.55 0.79 -12.12
NPX_GEN_CSC 323557	22.80 0.45 -15.15	20.40 0.49 -12.84	18.11 0.49 -10.42	18.79 0.49 -11.10	17.40 0.51 -9.68	20.21 0.55 -11.62	25.85 0.57 -16.02	28.23 0.66 -15.70	25.14 0.89 -9.38	24.90 1.04 -8.51	25.33 1.05 -5.48	25.51 1.21 -4.84	25.78 1.18 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.11 1.60 -5.24	34.28 1.87 -6.05	42.02 1.97 -11.82	45.27 1.94 -15.65	41.06 2.10 -8.55	42.00 1.81 -12.78	34.36 1.81 -6.01	28.70 1.35 -5.54	24.48 0.72 -12.12
NSINS_S_GLNS_FALLS 23858	24.85 0.51 -17.13	23.21 0.46 -15.68	21.13 0.48 -13.44	19.04 0.47 -11.38	20.10 0.50 -12.39	23.37 0.57 -14.76	30.60 0.68 -20.67	32.95 0.83 -20.25	28.05 1.09 -12.09	23.94 1.00 -7.59	23.66 1.17 -3.69	23.14 1.25 -2.43	22.62 1.16 -1.11	23.73 1.37 -0.68	24.58 1.37 -1.75	24.86 1.44 -0.16	27.80 1.24 -0.21	33.18 1.35 -3.60	37.50 1.36 -8.47	44.94 1.58 -12.94	49.33 1.45 -20.47	33.47 1.30 -5.63	25.32 1.16 -2.36	26.50 0.47 -14.39
NUCOR_STEEL__DRP 24197	9.13 0.07 -1.85	8.81 0.04 -1.69	8.72 0.06 -1.45	8.49 0.06 -1.23	8.61 0.06 -1.34	9.74 0.10 -1.59	11.62 0.13 -2.23	14.14 0.08 -2.19	16.23 0.04 -1.31	16.18 0.03 -0.80	19.28 0.09 -0.39	19.83 0.12 -0.25	20.61 0.14 -0.12	21.95 0.20 -0.07	21.87 0.24 -0.18	23.58 0.30 -0.02	26.69 0.32 -0.02	28.88 0.28 -0.38	28.82 0.25 -0.89	31.20 0.30 -0.49	28.51 0.33 -0.77	27.40 0.27 -0.59	22.33 0.28 -0.25	13.39 0.24 -1.51
NUMBER_THREE_WT_PWR 323818	7.88 0.06 -0.60	7.68 0.06 -0.55	7.72 0.05 -0.47	7.68 0.08 -0.40	7.74 0.09 -0.44	8.71 0.14 -0.52	10.18 0.20 -0.73	12.80 0.21 -0.71	15.43 0.13 -0.43	15.69 0.08 -0.26	19.04 0.11 -0.13	19.66 0.12 -0.08	20.51 0.12 -0.04	21.75 0.04 -0.02	21.51 0.00 -0.06	23.27 0.00 -0.01	26.55 0.19 -0.01	28.71 0.37 -0.12	28.39 0.42 -0.29	31.02 0.61 0.00	27.96 0.55 0.00	27.16 0.42 -0.19	22.34 0.46 -0.08	12.38 0.24 -0.49
NYISO_LBMP_REFERENCE 24008	7.21 0.00 0.00	7.07 0.00 0.00	7.20 0.00 0.00	7.20 0.00 0.00	7.21 0.00 0.00	8.05 0.00 0.00	9.25 0.00 0.00	11.87 0.00 0.00	14.87 0.00 0.00	15.35 0.00 0.00	18.80 0.00 0.00	19.46 0.00 0.00	20.35 0.00 0.00	21.68 0.00 0.00	21.45 0.00 0.00	23.26 0.00 0.00	26.36 0.00 0.00	28.22 0.00 0.00	27.68 0.00 0.00	30.41 0.00 0.00	27.41 0.00 0.00	26.55 0.00 0.00	21.80 0.00 0.00	11.64 0.00 0.00
NYPA_BRENTWD__GT 24164	22.92 0.57 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.47 1.22 -9.38	25.18 1.32 -8.51	25.75 1.47 -5.48	25.90 1.60 -4.84	26.21 1.61 -4.25	26.88 1.99 -3.21	28.23 1.93 -4.84	30.60 2.09 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.79 2.46 -15.65	41.64 2.68 -8.55	42.57 2.38 -12.78	34.89 2.34 -6.01	29.13 1.79 -5.54	24.71 0.95 -12.12
NYPA_GOWANUS__GT5 24156	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NYPA_GOWANUS__GT6 24157	21.00 0.51 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.92 1.58 -1.89	22.83 1.61 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.46 2.26 -5.98	37.30 2.22 -7.40	36.98 2.34 -4.23	36.18 2.08 -6.69	32.98 2.07 -4.36	25.24 1.61 -1.83	23.67 0.87 -11.16
NYPA_HARLEM_RVR_GT1 24160	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.71 1.51 -0.85	23.93 1.74 -0.52	24.50 1.69 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.04 2.03 -2.78	36.20 1.97 -6.55	36.73 2.10 -4.22	35.95 1.86 -6.68	32.76 1.86 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
NYPA_HARLEM_RVR_GT2 24161	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.71 1.51 -0.85	23.93 1.74 -0.52	24.50 1.69 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.04 2.03 -2.78	36.20 1.97 -6.55	36.73 2.10 -4.22	35.95 1.86 -6.68	32.76 1.86 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
NYPA_KENT__GT 24152	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.11 1.45 -2.86	22.91 1.56 -1.89	22.83 1.61 -0.87	27.59 1.82 -4.09	25.94 1.78 -2.71	25.30 1.91 -0.13	28.61 2.08 -0.17	36.65 2.23 -6.20	37.30 2.16 -7.46	36.93 2.28 -4.23	36.15 2.06 -6.69	32.95 2.04 -4.36	25.22 1.59 -1.83	23.66 0.86 -11.16
NYPA_POUCH1__GT 24155	20.99 0.50 -13.28	19.71 0.48 -12.16	18.10 0.48 -10.43	16.50 0.48 -8.82	17.29 0.47 -9.61	19.98 0.50 -11.43	25.84 0.57 -16.02	28.31 0.75 -15.70	25.24 1.00 -9.38	22.30 1.06 -5.89	22.96 1.30 -2.86	22.77 1.42 -1.89	22.68 1.47 -0.86	24.01 1.69 -0.63	24.51 1.65 -1.40	25.16 1.77 -0.13	28.45 1.92 -0.17	33.19 2.09 -2.88	36.33 2.08 -6.58	36.79 2.16 -4.22	36.01 1.92 -6.68	32.79 1.89 -4.36	25.22 1.59 -1.83	23.67 0.87 -11.16
NYPA_VERNON__GT2 24162	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.81 1.59 -0.87	27.80 1.80 -4.32	26.01 1.76 -2.80	25.28 1.88 -0.13	28.58 2.06 -0.17	36.81 2.17 -6.41	37.30 2.10 -7.52	36.89 2.25 -4.23	36.10 2.00 -6.69	32.90 1.99 -4.36	25.20 1.57 -1.83	23.64 0.84 -11.16



NYPA_VERNON____GT3 24163	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.49 -10.43	16.52 0.50 -8.82	17.31 0.49 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.81 1.59 -0.87	27.80 1.80 -4.32	26.01 1.76 -2.80	25.28 1.88 -0.13	28.58 2.06 -0.17	36.81 2.17 -6.41	37.30 2.10 -7.52	36.89 2.25 -4.23	36.10 2.00 -6.69	32.90 1.99 -4.36	25.20 1.57 -1.83	23.64 0.84 -11.16
NYPA____ASTORIA_CC1 323568	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
NYPA____ASTORIA_CC2 323569	20.99 0.50 -13.28	19.72 0.49 -12.16	18.12 0.50 -10.43	16.52 0.50 -8.82	17.31 0.50 -9.61	20.01 0.53 -11.43	25.89 0.62 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.42 1.18 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.86	25.81 1.74 -2.62	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.16 2.08 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
NYPA____HOLTSVILL 23794	22.87 0.51 -15.15	20.44 0.53 -12.84	18.14 0.53 -10.42	18.83 0.53 -11.10	17.43 0.54 -9.68	20.26 0.60 -11.62	25.93 0.66 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	25.06 1.20 -8.51	25.58 1.30 -5.48	25.74 1.44 -4.84	26.05 1.45 -4.25	26.71 1.82 -3.21	28.07 1.78 -4.84	30.41 1.91 -5.24	34.59 2.19 -6.05	42.36 2.31 -11.82	45.57 2.24 -15.65	41.42 2.46 -8.55	42.33 2.14 -12.78	34.71 2.15 -6.01	28.96 1.61 -5.54	24.62 0.86 -12.12
NYPA____HELLGATE_GT1 24158	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.71 1.51 -0.85	23.93 1.74 -0.52	24.50 1.69 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.04 2.03 -2.78	36.20 1.97 -6.55	36.73 2.10 -4.22	35.95 1.86 -6.68	32.76 1.86 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
NYPA____HELLGATE_GT2 24159	21.01 0.52 -13.28	19.74 0.51 -12.16	18.15 0.53 -10.43	16.56 0.53 -8.82	17.34 0.53 -9.61	20.04 0.55 -11.43	25.86 0.59 -16.02	28.30 0.75 -15.69	25.30 1.06 -9.37	22.37 1.14 -5.88	23.03 1.37 -2.86	22.82 1.48 -1.88	22.71 1.51 -0.85	23.93 1.74 -0.52	24.50 1.69 -1.35	25.19 1.82 -0.11	28.43 1.92 -0.15	33.04 2.03 -2.78	36.20 1.97 -6.55	36.73 2.10 -4.22	35.95 1.86 -6.68	32.76 1.86 -4.35	25.13 1.50 -1.83	23.65 0.85 -11.16
NYS_BARGE____HYD 23848	9.52 0.04 -2.28	9.12 -0.04 -2.08	8.99 0.01 -1.79	8.74 0.03 -1.51	8.93 0.07 -1.65	10.00 -0.01 -1.96	11.84 -0.16 -2.75	13.99 -0.57 -2.69	15.71 -0.77 -1.62	15.49 -0.84 -0.98	18.21 -1.07 -0.48	18.61 -1.17 -0.31	19.44 -1.06 -0.14	20.84 -0.93 -0.09	20.89 -0.79 -0.23	22.40 -0.88 -0.02	25.22 -1.16 -0.03	27.28 -1.41 -0.47	27.25 -1.52 -1.10	29.64 -1.40 -0.63	27.20 -1.21 -0.99	26.34 -0.93 -0.73	21.69 -0.41 -0.31	13.45 -0.05 -1.86
OAK ORCHARD____HYD 24046	9.16 0.10 -1.85	8.80 0.04 -1.69	8.71 0.06 -1.45	8.51 0.08 -1.23	8.65 0.10 -1.34	9.74 0.10 -1.59	11.54 0.06 -2.23	13.94 -0.12 -2.19	15.99 -0.19 -1.31	15.90 -0.25 -0.80	18.87 -0.32 -0.39	19.31 -0.41 -0.25	20.20 -0.27 -0.12	21.60 -0.15 -0.07	21.53 -0.11 -0.18	23.07 -0.21 -0.02	26.11 -0.26 -0.02	28.20 -0.40 -0.38	28.15 -0.41 -0.89	30.41 -0.49 -0.48	27.85 -0.33 -0.77	27.06 -0.08 -0.59	22.14 0.09 -0.25	13.39 0.23 -1.51
OAKDALE____35_KV_LOAD 356122	11.78 0.12 -4.45	11.23 0.09 -4.07	10.80 0.11 -3.49	10.27 0.12 -2.95	10.55 0.13 -3.22	12.02 0.14 -3.83	14.77 0.16 -5.36	17.22 0.09 -5.26	18.11 0.09 -3.15	17.34 0.11 -1.88	19.87 0.15 -0.91	20.24 0.18 -0.60	20.81 0.18 -0.27	22.17 0.33 -0.17	22.25 0.36 -0.43	23.79 0.49 -0.04	26.88 0.47 -0.05	29.56 0.45 -0.89	30.19 0.42 -2.09	32.31 0.58 -1.32	30.04 0.55 -2.08	28.39 0.45 -1.39	22.84 0.46 -0.58	15.51 0.31 -3.55
OCC_CHEM____DRP 24175	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.64 -0.10 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.78 -0.28 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.90 -1.39 -0.49	18.36 -1.42 -0.32	19.05 -1.45 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.05 -1.23 -0.02	24.85 -1.53 -0.03	26.86 -1.83 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.50 -0.61 -0.31	13.42 -0.10 -1.88
OH_GEN_PROXY 24063	9.49 -0.01 -2.29	9.10 -0.07 -2.10	8.96 -0.04 -1.80	8.71 -0.01 -1.52	8.89 0.02 -1.66	9.99 -0.03 -1.98	11.88 -0.14 -2.77	14.07 -0.51 -2.71	15.81 -0.68 -1.62	15.57 -0.77 -0.99	18.26 -1.02 -0.48	18.67 -1.11 -0.32	19.50 -1.00 -0.14	20.90 -0.87 -0.09	20.91 -0.77 -0.23	22.40 -0.88 -0.02	25.25 -1.13 -0.03	27.25 -1.44 -0.47	27.31 -1.47 -1.10	29.55 -1.49 -0.63	27.20 -1.21 -1.00	26.37 -0.90 -0.73	21.72 -0.39 -0.31	13.54 0.04 -1.86
OLIN_CORP_DRP 24177	9.49 -0.06 -2.34	9.09 -0.12 -2.14	8.95 -0.08 -1.83	8.69 -0.06 -1.55	8.88 -0.02 -1.69	9.94 -0.13 -2.03	11.77 -0.32 -2.84	13.87 -0.78 -2.78	15.49 -1.04 -1.66	15.23 -1.14 -1.01	17.83 -1.47 -0.49	18.29 -1.50 -0.32	18.97 -1.53 -0.15	20.49 -1.28 -0.09	20.53 -1.16 -0.23	21.98 -1.30 -0.02	24.78 -1.61 -0.03	26.81 -1.89 -0.48	26.76 -2.05 -1.12	29.12 -1.95 -0.65	26.68 -1.75 -1.03	25.89 -1.41 -0.75	21.35 -0.76 -0.31	13.31 -0.24 -1.91
OLIN_CORP_DSASP 323712	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.65 -0.09 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.79 -0.27 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.99 -1.30 -0.49	18.36 -1.42 -0.32	19.20 -1.30 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.03 -1.26 -0.02	24.85 -1.53 -0.03	26.83 -1.86 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.44 -0.68 -0.31	13.41 -0.12 -1.88
ONEIDA_HERK_LFGE 323681	7.85 0.11 -0.53	7.65 0.09 -0.49	7.71 0.09 -0.42	7.67 0.11 -0.35	7.71 0.12 -0.38	8.68 0.18 -0.46	10.11 0.22 -0.64	12.75 0.25 -0.63	15.47 0.22 -0.38	15.77 0.18 -0.23	19.19 0.28 -0.11	19.85 0.31 -0.07	20.71 0.32 -0.03	21.98 0.28 -0.02	21.77 0.26 -0.05	23.55 0.28 0.00	26.81 0.45 -0.01	28.89 0.56 -0.11	28.52 0.58 -0.26	31.14 0.73 0.00	28.04 0.63 0.00	27.25 0.53 -0.17	22.42 0.55 -0.07	12.37 0.29 -0.43
ONEIDA____115KV_TB4 55905	8.31 0.17 -0.94	8.07 0.14 -0.86	8.08 0.14 -0.73	7.99 0.17 -0.62	8.06 0.18 -0.68	9.09 0.23 -0.81	10.67 0.29 -1.13	13.28 0.31 -1.11	15.85 0.31 -0.66	16.03 0.28 -0.40	19.43 0.43 -0.20	20.06 0.47 -0.13	20.90 0.49 -0.06	22.21 0.50 -0.04	22.04 0.49 -0.09	23.81 0.54 -0.01	27.08 0.71 -0.01	29.26 0.85 -0.19	28.96 0.83 -0.45	31.39 0.97 0.00	28.29 0.88 0.00	27.56 0.72 -0.30	22.63 0.70 -0.13	12.80 0.40 -0.76



ONONDAGA_REF_OCCRA 23987	8.91 0.00 -1.71	8.60 -0.03 -1.56	8.52 -0.01 -1.34	8.32 -0.01 -1.13	8.44 0.00 -1.23	9.53 0.02 -1.47	11.32 0.01 -2.06	13.84 -0.05 -2.02	15.99 -0.09 -1.21	15.98 -0.11 -0.74	19.06 -0.09 -0.36	19.62 -0.08 -0.24	20.38 -0.08 -0.11	21.72 -0.02 -0.07	21.62 0.00 -0.17	23.30 0.02 -0.02	26.40 0.03 -0.02	28.57 0.00 -0.35	28.44 -0.06 -0.82	30.82 -0.03 -0.44	28.11 0.00 -0.70	27.04 -0.05 -0.54	22.07 0.04 -0.23	13.13 0.09 -1.39
ONONDAGA___COGEN 23986	8.80 -0.01 -1.60	8.50 -0.04 -1.46	8.43 -0.02 -1.25	8.24 -0.02 -1.06	8.35 -0.01 -1.15	9.43 0.01 -1.38	11.18 0.00 -1.93	13.69 -0.07 -1.89	15.90 -0.10 -1.13	15.92 -0.12 -0.69	19.02 -0.11 -0.33	19.59 -0.10 -0.22	20.37 -0.08 -0.10	21.68 -0.07 -0.06	21.57 -0.04 -0.16	23.28 0.00 -0.01	26.35 -0.03 -0.02	28.49 -0.06 -0.33	28.34 -0.11 -0.77	30.70 -0.12 -0.40	27.99 -0.05 -0.64	26.98 -0.08 -0.51	22.02 0.00 -0.21	13.03 0.08 -1.30
ONTARIO___LFGE 23819	8.97 0.03 -1.73	8.64 -0.02 -1.59	8.56 0.00 -1.36	8.36 0.01 -1.15	8.49 0.03 -1.25	9.60 0.06 -1.49	11.39 0.05 -2.09	13.86 -0.06 -2.05	15.98 -0.12 -1.23	15.95 -0.15 -0.75	19.01 -0.15 -0.36	19.53 -0.18 -0.24	20.36 -0.10 -0.11	21.70 -0.04 -0.07	21.60 -0.02 -0.17	23.23 -0.05 -0.02	26.35 -0.03 -0.02	28.46 -0.11 -0.35	28.37 -0.14 -0.83	30.68 -0.18 -0.45	28.03 -0.08 -0.71	27.07 -0.03 -0.55	22.10 0.07 -0.23	13.22 0.16 -1.41
ORANGEVILLE_WT_PWR 323706	10.11 0.09 -2.82	9.67 0.02 -2.58	9.47 0.06 -2.21	9.15 0.08 -1.87	9.35 0.11 -2.04	10.55 0.08 -2.43	12.66 0.01 -3.40	14.91 -0.28 -3.33	16.49 -0.37 -1.99	16.15 -0.41 -1.21	18.84 -0.55 -0.59	19.25 -0.60 -0.39	20.04 -0.49 -0.18	21.46 -0.32 -0.11	21.52 -0.21 -0.28	23.15 -0.14 -0.02	26.15 -0.24 -0.03	28.40 -0.40 -0.57	28.56 -0.47 -1.35	31.00 -0.21 -0.80	28.57 -0.11 -1.27	27.30 -0.13 -0.88	22.31 0.13 -0.37	14.13 0.22 -2.26
ORANGEVILLE___ESR 323794	10.11 0.09 -2.82	9.67 0.02 -2.58	9.47 0.06 -2.21	9.15 0.08 -1.87	9.35 0.11 -2.04	10.55 0.08 -2.43	12.66 0.01 -3.40	14.91 -0.28 -3.33	16.49 -0.37 -1.99	16.15 -0.41 -1.21	18.84 -0.55 -0.59	19.25 -0.60 -0.39	20.04 -0.49 -0.18	21.46 -0.32 -0.11	21.52 -0.21 -0.28	23.15 -0.14 -0.02	26.15 -0.24 -0.03	28.40 -0.40 -0.57	28.56 -0.47 -1.35	31.00 -0.21 -0.80	28.57 -0.11 -1.27	27.30 -0.13 -0.88	22.31 0.13 -0.37	14.13 0.22 -2.26
OSWEGATCHIE___HYD 24044	7.59 -0.06 -0.45	7.43 -0.06 -0.41	7.49 -0.06 -0.35	7.45 -0.05 -0.30	7.50 -0.04 -0.32	8.42 -0.02 -0.39	9.81 0.02 -0.54	12.42 0.02 -0.53	15.10 -0.09 -0.32	15.42 -0.12 -0.19	18.74 -0.15 -0.09	19.33 -0.19 -0.06	20.16 -0.22 -0.03	21.31 -0.39 -0.02	20.96 -0.54 -0.04	22.69 -0.58 0.00	25.86 -0.50 -0.01	27.89 -0.42 -0.09	27.56 -0.33 -0.22	30.14 -0.27 0.00	27.22 -0.19 0.00	26.51 -0.18 -0.14	21.73 -0.13 -0.06	11.94 -0.07 -0.37
OSWEGO___5 23606	8.37 -0.14 -1.30	8.11 -0.16 -1.19	8.07 -0.15 -1.02	7.92 -0.14 -0.87	8.01 -0.14 -0.94	9.03 -0.14 -1.12	10.66 -0.17 -1.57	13.13 -0.28 -1.54	15.41 -0.39 -0.92	15.50 -0.41 -0.56	18.61 -0.47 -0.27	19.16 -0.49 -0.18	19.95 -0.49 -0.08	21.23 -0.50 -0.05	21.09 -0.49 -0.13	22.74 -0.53 -0.01	25.77 -0.61 -0.02	27.81 -0.68 -0.27	27.62 -0.69 -0.63	29.66 -0.76 0.00	26.75 -0.66 0.00	26.35 -0.61 -0.42	21.54 -0.44 -0.17	12.56 -0.15 -1.07
OSWEGO___6 23613	8.37 -0.14 -1.30	8.11 -0.16 -1.19	8.07 -0.15 -1.02	7.92 -0.14 -0.87	8.01 -0.14 -0.94	9.03 -0.14 -1.12	10.66 -0.17 -1.57	13.13 -0.28 -1.54	15.41 -0.39 -0.92	15.50 -0.41 -0.56	18.61 -0.47 -0.27	19.16 -0.49 -0.18	19.95 -0.49 -0.08	21.23 -0.50 -0.05	21.09 -0.49 -0.13	22.74 -0.53 -0.01	25.77 -0.61 -0.02	27.81 -0.68 -0.27	27.62 -0.69 -0.63	29.66 -0.76 0.00	26.75 -0.66 0.00	26.35 -0.61 -0.42	21.54 -0.44 -0.17	12.56 -0.15 -1.07
OUTOKUMPU-AB___DRP 24206	9.67 0.09 -2.37	9.26 0.01 -2.17	9.13 0.06 -1.86	8.85 0.08 -1.58	9.05 0.13 -1.72	10.17 0.07 -2.05	12.07 -0.05 -2.87	14.28 -0.40 -2.81	16.00 -0.55 -1.68	15.78 -0.60 -1.02	18.41 -0.88 -0.50	18.90 -0.90 -0.33	19.61 -0.90 -0.15	21.16 -0.61 -0.09	21.20 -0.49 -0.24	22.73 -0.56 -0.02	25.59 -0.79 -0.03	27.69 -1.02 -0.48	27.71 -1.11 -1.14	30.10 -0.97 -0.66	27.68 -0.77 -1.04	26.69 -0.61 -0.76	22.01 -0.11 -0.32	13.70 0.13 -1.93
OXBOW___ 24026	9.58 0.02 -2.35	9.17 -0.05 -2.15	9.04 -0.01 -1.84	8.77 0.01 -1.56	8.96 0.06 -1.70	10.07 0.00 -2.02	11.96 -0.13 -2.83	14.12 -0.52 -2.78	15.83 -0.70 -1.66	15.61 -0.75 -1.01	18.30 -1.00 -0.49	18.68 -1.11 -0.32	19.52 -0.98 -0.15	20.95 -0.82 -0.09	20.96 -0.73 -0.23	22.45 -0.84 -0.02	25.30 -1.08 -0.03	27.35 -1.35 -0.48	27.40 -1.41 -1.13	29.66 -1.40 -0.65	27.31 -1.12 -1.03	26.44 -0.85 -0.75	21.77 -0.35 -0.31	13.58 0.04 -1.90
OXY_CHEM_DSASP 323612	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.65 -0.09 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.79 -0.27 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.99 -1.30 -0.49	18.36 -1.42 -0.32	19.20 -1.30 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.03 -1.26 -0.02	24.85 -1.53 -0.03	26.83 -1.86 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.44 -0.68 -0.31	13.41 -0.12 -1.88
OZONE_PARK_ESR 323760	20.99 0.51 -13.27	19.72 0.50 -12.15	18.11 0.50 -10.42	16.51 0.50 -8.82	17.31 0.50 -9.60	20.03 0.55 -11.43	25.91 0.65 -16.02	28.41 0.84 -15.69	25.41 1.16 -9.38	22.47 1.23 -5.89	23.17 1.50 -2.86	22.94 1.60 -1.89	22.86 1.65 -0.86	24.05 1.84 -0.53	24.64 1.82 -1.36	25.32 1.93 -0.12	28.63 2.11 -0.16	33.27 2.26 -2.79	36.45 2.21 -6.56	36.99 2.34 -4.23	36.21 2.11 -6.69	33.03 2.12 -4.36	25.22 1.59 -1.83	23.65 0.86 -11.15
PACKARD_115_KV_ADAMS_187_REV_LBMP_A 345013	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.64 -0.10 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.78 -0.28 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.90 -1.39 -0.49	18.36 -1.42 -0.32	19.05 -1.45 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.05 -1.23 -0.02	24.85 -1.53 -0.03	26.86 -1.83 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.50 -0.61 -0.31	13.42 -0.10 -1.88
PACKARD___115KV_DUPONT_184 80571	9.45 -0.09 -2.32	9.05 -0.15 -2.13	8.91 -0.12 -1.82	8.64 -0.10 -1.54	8.84 -0.05 -1.68	9.93 -0.12 -2.00	11.78 -0.28 -2.80	13.92 -0.70 -2.75	15.59 -0.92 -1.64	15.37 -0.98 -1.00	17.90 -1.39 -0.49	18.36 -1.42 -0.32	19.05 -1.45 -0.15	20.60 -1.17 -0.09	20.61 -1.07 -0.23	22.05 -1.23 -0.02	24.85 -1.53 -0.03	26.86 -1.83 -0.47	26.91 -1.88 -1.11	29.08 -1.98 -0.64	26.81 -1.62 -1.01	26.01 -1.27 -0.74	21.50 -0.61 -0.31	13.42 -0.10 -1.88
PARKCHTR_138_KV_TB2S_REV_LBMP_J 345007	21.02 0.53 -13.28	19.74 0.52 -12.16	18.15 0.53 -10.43	16.55 0.53 -8.82	17.34 0.53 -9.61	20.04 0.56 -11.43	25.87 0.60 -16.02	28.31 0.75 -15.70	25.29 1.04 -9.38	22.36 1.12 -5.89	23.04 1.37 -2.86	22.81 1.46 -1.89	22.71 1.51 -0.85	23.89 1.69 -0.52	24.46 1.65 -1.35	25.14 1.77 -0.11	28.43 1.92 -0.15	33.04 2.03 -2.78	36.22 1.99 -6.55	36.74 2.10 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.09 1.46 -1.83	23.66 0.86 -11.16



PARKCHTR_13_KV_CPCTY_REV_LBMP_J 345019	21.03 0.54 -13.28	19.77 0.54 -12.16	18.17 0.55 -10.43	16.58 0.55 -8.82	17.37 0.55 -9.61	20.06 0.58 -11.43	25.90 0.63 -16.02	28.34 0.77 -15.70	25.32 1.07 -9.38	22.36 1.12 -5.89	23.04 1.37 -2.86	22.85 1.50 -1.89	22.77 1.57 -0.85	23.89 1.69 -0.52	24.48 1.67 -1.35	25.14 1.77 -0.11	28.43 1.92 -0.15	33.04 2.03 -2.78	36.22 1.99 -6.55	36.77 2.13 -4.23	36.02 1.92 -6.69	32.84 1.94 -4.36	25.24 1.61 -1.83	23.75 0.95 -11.16
PATROON__115KV_TB1 80586	24.30 0.35 -16.74	22.72 0.33 -15.32	20.68 0.34 -13.14	18.66 0.34 -11.12	19.66 0.34 -12.11	22.86 0.39 -14.42	29.89 0.43 -20.20	32.19 0.52 -19.80	27.41 0.71 -11.82	23.47 0.69 -7.42	23.26 0.85 -3.61	22.72 0.88 -2.38	22.37 0.94 -1.08	23.43 1.08 -0.66	24.26 1.09 -1.71	24.63 1.21 -0.15	27.98 1.42 -0.21	33.24 1.50 -3.52	37.42 1.47 -8.27	42.09 1.64 -10.03	44.75 1.48 -15.86	33.53 1.49 -5.50	25.37 1.26 -2.31	26.31 0.61 -14.06
PAVMNTRD_115_KV_BK1_REV_LBMP_A 345030	9.82 0.04 -2.57	9.40 -0.03 -2.36	9.23 0.01 -2.02	8.94 0.03 -1.71	9.14 0.07 -1.86	10.30 0.03 -2.22	12.31 -0.06 -3.11	14.55 -0.37 -3.05	16.20 -0.49 -1.82	15.92 -0.54 -1.11	18.57 -0.77 -0.54	19.06 -0.76 -0.35	19.76 -0.75 -0.16	21.30 -0.48 -0.10	21.37 -0.34 -0.26	23.29 0.00 -0.02	25.86 -0.53 -0.03	28.01 -0.73 -0.52	28.08 -0.83 -1.23	30.89 -0.24 -0.72	28.42 -0.14 -1.14	26.83 -0.53 -0.82	21.99 -0.15 -0.34	13.79 0.06 -2.09
PAWLING_115_KV_BK3_REV_LBMP_H 345028	21.03 0.43 -13.40	19.74 0.41 -12.26	18.11 0.40 -10.51	16.51 0.41 -8.90	17.29 0.40 -9.69	20.06 0.47 -11.54	25.97 0.56 -16.16	28.36 0.65 -15.84	25.24 0.91 -9.46	22.23 0.94 -5.94	22.86 1.17 -2.89	22.59 1.23 -1.90	22.50 1.28 -0.86	23.66 1.45 -0.53	24.26 1.44 -1.37	24.99 1.61 -0.12	28.29 1.77 -0.16	32.96 1.92 -2.82	36.21 1.91 -6.62	36.71 2.01 -4.29	36.03 1.84 -6.79	32.72 1.78 -4.40	25.00 1.35 -1.85	23.57 0.68 -11.25
PEEKSKILL____ 23653	20.74 0.40 -13.14	19.48 0.38 -12.02	17.89 0.38 -10.31	16.31 0.39 -8.72	17.09 0.38 -9.50	19.80 0.43 -11.32	25.61 0.51 -15.85	28.04 0.64 -15.53	25.04 0.89 -9.28	22.11 0.94 -5.83	22.78 1.15 -2.83	22.56 1.23 -1.87	22.46 1.26 -0.85	23.63 1.43 -0.52	24.21 1.42 -1.34	24.92 1.54 -0.12	28.18 1.66 -0.16	32.79 1.81 -2.76	35.92 1.74 -6.49	36.46 1.86 -4.19	35.70 1.67 -6.62	32.51 1.65 -4.31	24.92 1.31 -1.81	23.35 0.67 -11.03
PGE MADISON__WINDPWR 24146	11.97 0.53 -4.24	11.42 0.47 -3.88	11.00 0.48 -3.33	10.53 0.52 -2.81	10.83 0.55 -3.07	12.38 0.68 -3.65	15.19 0.82 -5.11	17.76 0.88 -5.01	18.71 0.83 -3.00	17.80 0.80 -1.65	20.79 1.19 -0.80	21.30 1.30 -0.53	22.02 1.42 -0.24	23.37 1.54 -0.15	23.38 1.55 -0.38	25.09 1.79 -0.03	28.69 2.29 -0.05	31.77 2.77 -0.78	32.34 2.82 -1.84	34.96 3.41 -1.14	32.20 2.99 -1.80	30.24 2.47 -1.22	24.41 2.09 -0.51	15.92 1.15 -3.12
PIERCEFIELD__HYD 23852	7.06 -0.15 0.00	6.95 -0.12 0.00	7.06 -0.14 0.00	7.07 -0.13 0.00	7.08 -0.13 0.00	7.91 -0.14 0.00	9.13 -0.12 0.00	11.79 -0.08 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.13 -0.33 0.00	19.99 -0.37 0.00	21.03 -0.65 0.00	20.55 -0.90 0.00	22.26 -1.00 0.00	25.33 -1.03 0.00	27.15 -1.07 0.00	26.77 -0.91 0.00	29.41 -1.00 0.00	26.59 -0.82 0.00	25.83 -0.72 0.00	21.19 -0.61 0.00	11.30 -0.34 0.00
PINELAWN_CC_1 323563	22.92 0.56 -15.15	20.47 0.56 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.99 0.72 -16.02	28.47 0.90 -15.70	25.45 1.20 -9.38	25.15 1.29 -8.51	25.75 1.47 -5.48	25.90 1.60 -4.84	26.21 1.61 -4.25	26.86 1.97 -3.21	28.23 1.93 -4.84	30.57 2.07 -5.24	34.52 2.11 -6.05	42.16 2.12 -11.82	45.41 2.08 -15.65	41.27 2.31 -8.55	42.27 2.08 -12.78	34.68 2.12 -6.01	29.13 1.79 -5.54	24.71 0.95 -12.12
PJM_GEN_HTP_PROXY 323702	20.94 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.47 0.45 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.69	25.29 1.04 -9.38	22.36 1.12 -5.89	23.02 1.35 -2.86	22.79 1.44 -1.89	22.68 1.47 -0.86	23.88 1.67 -0.53	24.44 1.63 -1.36	25.13 1.75 -0.12	28.42 1.90 -0.16	33.05 2.03 -2.79	36.21 1.97 -6.56	36.71 2.07 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.09 1.46 -1.83	23.56 0.77 -11.15
PJM_GEN_KEystone 24065	15.72 0.22 -8.29	14.85 0.19 -7.59	13.92 0.21 -6.51	12.92 0.22 -5.51	13.44 0.23 -6.00	15.43 0.24 -7.14	19.51 0.25 -10.01	21.86 0.19 -9.81	21.00 0.27 -5.86	19.29 0.28 -3.66	20.90 0.32 -1.78	20.99 0.35 -1.17	21.29 0.41 -0.53	22.57 0.56 -0.33	22.90 0.60 -0.84	24.06 0.72 -0.07	27.12 0.66 -0.10	30.61 0.65 -1.74	32.31 0.55 -4.08	33.75 0.73 -2.60	32.21 0.69 -4.12	29.92 0.66 -2.71	23.57 0.63 -1.14	18.97 0.40 -6.93
PJM_GEN_NEPTUNE_PROXY 323594	21.79 0.50 -14.08	20.02 0.49 -12.45	18.12 0.50 -10.42	17.50 0.50 -9.80	17.35 0.50 -9.64	20.12 0.55 -11.51	25.91 0.64 -16.02	28.38 0.81 -15.70	25.34 1.09 -9.38	23.57 1.18 -7.03	24.16 1.35 -4.01	24.10 1.46 -3.18	24.17 1.49 -2.34	25.16 1.78 -1.70	26.07 1.74 -2.88	27.46 1.84 -2.35	31.12 2.03 -2.73	37.10 2.14 -6.73	40.31 2.10 -10.53	38.78 2.25 -6.11	38.76 2.00 -9.35	33.64 2.02 -5.08	26.84 1.59 -3.45	24.06 0.85 -11.57
PJM_GEN_VFT_PROXY 323633	20.94 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.46 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.84 0.57 -16.02	28.31 0.75 -15.69	25.29 1.04 -9.38	22.36 1.12 -5.89	23.02 1.35 -2.86	22.81 1.46 -1.89	22.68 1.47 -0.86	23.83 1.63 -0.53	24.40 1.59 -1.36	25.08 1.70 -0.12	28.34 1.82 -0.16	32.90 1.89 -2.79	36.07 1.83 -6.56	36.56 1.92 -4.23	35.82 1.73 -6.69	32.66 1.75 -4.36	25.07 1.44 -1.83	23.56 0.77 -11.15
PLATSBRG_115KV_PMLD1 355749	7.30 0.09 0.00	7.20 0.13 0.00	7.31 0.12 0.00	7.32 0.12 0.00	7.33 0.12 0.00	8.18 0.14 0.00	9.46 0.20 0.00	12.21 0.34 0.00	15.20 0.33 0.00	15.77 0.41 0.00	19.21 0.41 0.00	19.79 0.33 0.00	20.70 0.35 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.72 0.37 0.00	28.73 0.51 0.00	28.34 0.66 0.00	31.11 0.70 0.00	27.99 0.58 0.00	26.76 0.21 0.00	21.54 -0.26 0.00	11.41 -0.23 0.00
PLEASANTVLY__LBMP 24000	21.47 0.35 -13.91	20.15 0.35 -12.73	18.46 0.35 -10.91	16.79 0.35 -9.24	17.62 0.35 -10.06	20.41 0.39 -11.98	26.48 0.44 -16.78	28.87 0.56 -16.44	25.47 0.77 -9.82	22.33 0.81 -6.17	22.82 1.02 -3.00	22.51 1.07 -1.97	22.35 1.10 -0.90	23.49 1.26 -0.55	24.12 1.24 -1.42	24.72 1.33 -0.13	27.98 1.45 -0.17	32.70 1.55 -2.93	36.07 1.52 -6.87	36.45 1.61 -4.42	35.85 1.45 -6.99	32.60 1.49 -4.57	24.87 1.16 -1.92	23.93 0.61 -11.68
PLSNTVLE_13_KV_13.8KVDIST 80602	20.98 0.41 -13.37	19.71 0.40 -12.23	18.09 0.40 -10.49	16.48 0.40 -8.88	17.28 0.40 -9.67	20.01 0.45 -11.51	25.91 0.53 -16.13	28.34 0.66 -15.80	25.24 0.92 -9.44	22.26 0.98 -5.93	22.89 1.20 -2.88	22.63 1.27 -1.90	22.54 1.32 -0.86	23.71 1.50 -0.53	24.30 1.48 -1.37	24.97 1.58 -0.12	28.26 1.74 -0.16	32.90 1.86 -2.81	36.08 1.80 -6.61	36.62 1.95 -4.26	35.90 1.75 -6.74	32.69 1.75 -4.39	24.95 1.31 -1.84	23.57 0.70 -11.23



PLSNTVLE_13_KV_13KVDISA_REV_LBMP_I 345020	20.98 0.41 -13.37	19.71 0.40 -12.23	18.09 0.40 -10.49	16.48 0.40 -8.88	17.28 0.40 -9.67	20.01 0.45 -11.51	25.91 0.53 -16.13	28.34 0.66 -15.80	25.24 0.92 -9.44	22.26 0.98 -5.93	22.89 1.20 -2.88	22.63 1.27 -1.90	22.54 1.32 -0.86	23.71 1.50 -0.53	24.30 1.48 -1.37	24.97 1.58 -0.12	28.26 1.74 -0.16	32.90 1.86 -2.81	36.08 1.80 -6.61	36.62 1.95 -4.26	35.90 1.75 -6.74	32.69 1.75 -4.39	24.95 1.31 -1.84	23.57 0.70 -11.23
PLSTVYCH_69_KV_RQ-3_RG2_REV_LBMP_G 345023	21.13 0.38 -13.54	19.85 0.38 -12.39	18.20 0.37 -10.63	16.57 0.37 -8.99	17.38 0.37 -9.80	20.13 0.42 -11.67	26.06 0.47 -16.34	28.48 0.59 -16.01	25.27 0.83 -9.57	22.23 0.88 -6.01	22.79 1.07 -2.92	22.52 1.13 -1.92	22.39 1.16 -0.87	23.54 1.32 -0.54	24.15 1.31 -1.39	24.83 1.44 -0.12	28.08 1.55 -0.17	32.79 1.72 -2.85	36.03 1.66 -6.69	36.52 1.70 -4.40	35.93 1.56 -6.96	32.56 1.57 -4.45	24.89 1.22 -1.87	23.64 0.63 -11.37
POLETTI____ 23519	20.93 0.45 -13.27	19.67 0.45 -12.15	18.06 0.45 -10.42	16.47 0.45 -8.82	17.26 0.45 -9.60	19.97 0.49 -11.43	25.83 0.56 -16.02	28.28 0.74 -15.68	25.24 1.01 -9.36	22.33 1.09 -5.89	23.00 1.33 -2.86	22.77 1.42 -1.89	22.68 1.47 -0.86	23.83 1.63 -0.53	24.38 1.59 -1.34	25.07 1.70 -0.10	28.35 1.84 -0.15	32.94 1.95 -2.78	36.13 1.91 -6.54	36.64 2.01 -4.21	35.87 1.78 -6.67	32.69 1.81 -4.34	25.00 1.37 -1.83	23.56 0.77 -11.15
PORT_JEFF_3 23555	22.89 0.53 -15.15	20.46 0.54 -12.84	18.17 0.55 -10.42	18.84 0.55 -11.10	17.45 0.56 -9.68	20.28 0.62 -11.62	25.95 0.68 -16.02	28.40 0.83 -15.70	25.37 1.12 -9.38	25.09 1.23 -8.51	25.64 1.35 -5.48	25.78 1.48 -4.84	26.08 1.49 -4.25	26.78 1.89 -3.21	28.14 1.85 -4.84	30.48 1.98 -5.24	34.70 2.29 -6.05	42.41 2.37 -11.82	45.65 2.33 -15.65	41.54 2.58 -8.55	42.41 2.22 -12.78	34.79 2.23 -6.01	29.00 1.66 -5.54	24.64 0.88 -12.12
PORT_JEFF_4 23616	22.89 0.53 -15.15	20.46 0.54 -12.84	18.17 0.55 -10.42	18.84 0.55 -11.10	17.45 0.56 -9.68	20.28 0.62 -11.62	25.95 0.68 -16.02	28.40 0.83 -15.70	25.37 1.12 -9.38	25.09 1.23 -8.51	25.64 1.35 -5.48	25.78 1.48 -4.84	26.08 1.49 -4.25	26.78 1.89 -3.21	28.14 1.85 -4.84	30.48 1.98 -5.24	34.70 2.29 -6.05	42.41 2.37 -11.82	45.65 2.33 -15.65	41.54 2.58 -8.55	42.41 2.22 -12.78	34.79 2.23 -6.01	29.00 1.66 -5.54	24.64 0.88 -12.12
PORT_JEFF_IC 23713	22.90 0.54 -15.15	20.46 0.55 -12.84	18.17 0.55 -10.42	18.86 0.56 -11.10	17.46 0.57 -9.68	20.29 0.63 -11.62	25.96 0.68 -16.02	28.41 0.84 -15.70	25.38 1.13 -9.38	25.10 1.24 -8.51	25.64 1.35 -5.48	25.80 1.50 -4.84	26.11 1.51 -4.25	26.80 1.91 -3.21	28.16 1.87 -4.84	30.53 2.02 -5.24	34.75 2.34 -6.05	42.44 2.40 -11.82	45.65 2.33 -15.65	41.60 2.64 -8.55	42.41 2.22 -12.78	34.84 2.28 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
PPL PILGRIM_ST_GT1 24216	22.92 0.57 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.47 1.22 -9.38	25.18 1.32 -8.51	25.75 1.47 -5.48	25.90 1.60 -4.84	26.21 1.61 -4.25	26.88 1.99 -3.21	28.23 1.93 -4.84	30.60 2.09 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.79 2.46 -15.65	41.64 2.68 -8.55	42.57 2.38 -12.78	34.89 2.34 -6.01	29.13 1.79 -5.54	24.71 0.95 -12.12
PPL PILGRIM_ST_GT2 24217	22.92 0.57 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.58 -11.10	17.47 0.58 -9.68	20.31 0.64 -11.62	26.00 0.73 -16.02	28.48 0.91 -15.70	25.47 1.22 -9.38	25.18 1.32 -8.51	25.75 1.47 -5.48	25.90 1.60 -4.84	26.21 1.61 -4.25	26.88 1.99 -3.21	28.23 1.93 -4.84	30.60 2.09 -5.24	34.78 2.37 -6.05	42.55 2.51 -11.82	45.79 2.46 -15.65	41.64 2.68 -8.55	42.57 2.38 -12.78	34.89 2.34 -6.01	29.13 1.79 -5.54	24.71 0.95 -12.12
PPL_SHRM_GT3 24213	22.81 0.45 -15.15	20.41 0.49 -12.84	18.11 0.49 -10.42	18.79 0.50 -11.10	17.40 0.51 -9.68	20.22 0.55 -11.62	25.85 0.57 -16.02	28.24 0.68 -15.70	25.16 0.91 -9.38	24.90 1.04 -8.51	25.33 1.05 -5.48	25.51 1.21 -4.84	25.80 1.20 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.09 1.58 -5.24	34.31 1.90 -6.05	42.05 2.00 -11.82	45.27 1.94 -15.65	41.06 2.10 -8.55	42.03 1.84 -12.78	34.39 1.83 -6.01	28.72 1.37 -5.54	24.49 0.73 -12.12
PPL_SHRM_GT4 24214	22.81 0.45 -15.15	20.41 0.49 -12.84	18.11 0.49 -10.42	18.79 0.50 -11.10	17.40 0.51 -9.68	20.22 0.55 -11.62	25.85 0.57 -16.02	28.24 0.68 -15.70	25.16 0.91 -9.38	24.90 1.04 -8.51	25.33 1.05 -5.48	25.51 1.21 -4.84	25.80 1.20 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.09 1.58 -5.24	34.31 1.90 -6.05	42.05 2.00 -11.82	45.27 1.94 -15.65	41.06 2.10 -8.55	42.03 1.84 -12.78	34.39 1.83 -6.01	28.72 1.37 -5.54	24.49 0.73 -12.12
PROJECT____ORANGE 1 24174	8.62 -0.03 -1.44	8.34 -0.05 -1.32	8.29 -0.04 -1.13	8.12 -0.04 -0.96	8.22 -0.03 -1.04	9.27 -0.02 -1.24	10.96 -0.03 -1.74	13.48 -0.09 -1.70	15.74 -0.15 -1.02	15.81 -0.17 -0.62	18.93 -0.17 -0.30	19.51 -0.16 -0.20	20.30 -0.14 -0.09	21.63 -0.11 -0.06	21.51 -0.09 -0.14	23.21 -0.07 -0.01	26.27 -0.11 -0.02	28.37 -0.14 -0.30	28.18 -0.19 -0.69	30.55 -0.21 -0.35	27.80 -0.16 -0.56	26.85 -0.16 -0.46	21.95 -0.04 -0.19	12.87 0.05 -1.18
PROJECT____ORANGE 2 24166	8.62 -0.03 -1.44	8.34 -0.05 -1.32	8.29 -0.04 -1.13	8.12 -0.04 -0.96	8.22 -0.03 -1.04	9.27 -0.02 -1.24	10.96 -0.03 -1.74	13.48 -0.09 -1.70	15.74 -0.15 -1.02	15.81 -0.17 -0.62	18.93 -0.17 -0.30	19.51 -0.16 -0.20	20.30 -0.14 -0.09	21.63 -0.11 -0.06	21.51 -0.09 -0.14	23.21 -0.07 -0.01	26.27 -0.11 -0.02	28.37 -0.14 -0.30	28.18 -0.19 -0.69	30.55 -0.21 -0.35	27.80 -0.16 -0.56	26.85 -0.16 -0.46	21.95 -0.04 -0.19	12.87 0.05 -1.18
PUCKETT____SOLAR 323809	11.99 0.23 -4.55	11.43 0.20 -4.16	10.98 0.21 -3.57	10.44 0.22 -3.02	10.74 0.25 -3.29	12.25 0.29 -3.92	15.07 0.33 -5.49	17.53 0.28 -5.38	18.34 0.25 -3.22	17.46 0.24 -1.87	20.06 0.36 -0.91	20.45 0.39 -0.60	21.05 0.43 -0.27	22.39 0.54 -0.17	22.46 0.58 -0.43	24.05 0.74 -0.04	27.28 0.87 -0.05	30.12 1.01 -0.88	30.81 1.05 -2.08	33.06 1.34 -1.30	30.71 1.23 -2.06	28.96 1.03 -1.38	23.30 0.92 -0.58	15.73 0.56 -3.53
PYRITES____HYD 24023	7.11 -0.09 0.00	7.01 -0.06 0.00	7.12 -0.08 0.00	7.14 -0.06 0.00	7.15 -0.06 0.00	8.01 -0.04 0.00	9.25 0.00 0.00	11.93 0.06 0.00	14.80 -0.07 0.00	15.29 -0.06 0.00	18.73 -0.08 0.00	19.35 -0.12 0.00	20.19 -0.16 0.00	21.22 -0.46 0.00	20.81 -0.64 0.00	22.52 -0.74 0.00	25.64 -0.71 0.00	27.54 -0.68 0.00	27.15 -0.53 0.00	29.90 -0.52 0.00	27.00 -0.41 0.00	26.12 -0.42 0.00	21.43 -0.37 0.00	11.43 -0.21 0.00
QUAKERRD_115KV_BK1 80622	8.87 -0.09 -1.76	8.54 -0.14 -1.61	8.45 -0.13 -1.38	8.25 -0.12 -1.17	8.38 -0.09 -1.27	9.46 -0.10 -1.51	11.21 -0.17 -2.12	13.58 -0.37 -2.08	15.62 -0.49 -1.24	15.57 -0.54 -0.76	18.45 -0.71 -0.37	18.95 -0.76 -0.24	19.71 -0.75 -0.11	21.12 -0.63 -0.07	21.03 -0.60 -0.17	22.56 -0.72 -0.02	25.56 -0.82 -0.02	27.62 -0.96 -0.36	27.56 -0.97 -0.84	29.75 -1.13 -0.46	27.20 -0.93 -0.72	26.39 -0.72 -0.56	21.65 -0.39 -0.24	13.01 -0.07 -1.44



QUENSBRY_I15KV_TB8 356137	24.87	23.23	21.14	19.06	20.11	23.40	30.64	32.99	28.09	23.98	23.70	23.18	22.64	23.77	24.62	24.91	27.83	33.21	37.54	44.99	49.41	33.48	25.28	26.48
	0.52	0.47	0.49	0.48	0.50	0.59	0.70	0.85	1.12	1.03	1.20	1.28	1.18	1.41	1.42	1.49	1.27	1.38	1.38	1.58	1.45	1.30	1.11	0.44
	-17.14	-15.69	-13.45	-11.39	-12.40	-14.77	-20.68	-20.27	-12.10	-7.60	-3.70	-2.44	-1.11	-0.68	-1.75	-0.16	-0.21	-3.61	-8.47	-13.00	-20.55	-5.63	-2.36	-14.40
RAMAPO____LBMP 323565	20.32	19.10	17.56	16.03	16.79	19.43	25.10	27.54	24.72	21.91	22.68	22.46	22.40	23.57	24.13	24.87	28.12	32.65	35.66	36.25	35.43	32.30	24.78	22.98
	0.37	0.37	0.37	0.37	0.37	0.41	0.48	0.61	0.85	0.91	1.13	1.19	1.22	1.39	1.37	1.49	1.61	1.75	1.69	1.76	1.59	1.57	1.22	0.64
	-12.74	-11.66	-10.00	-8.46	-9.21	-10.97	-15.37	-15.06	-9.00	-5.65	-2.75	-1.81	-0.82	-0.51	-1.30	-0.12	-0.16	-2.68	-6.30	-4.07	-6.43	-4.18	-1.76	-10.70
RANKINE____ 23646	9.85	9.43	9.27	8.99	9.19	10.34	12.34	14.59	16.27	16.01	18.65	19.15	19.86	21.43	21.47	23.15	25.94	28.09	28.17	30.70	28.25	27.00	22.20	13.89
	0.12	0.04	0.09	0.11	0.15	0.11	0.04	-0.27	-0.39	-0.43	-0.68	-0.66	-0.65	-0.35	-0.24	-0.14	-0.45	-0.65	-0.72	-0.43	-0.27	-0.35	0.07	0.20
	-2.53	-2.31	-1.98	-1.68	-1.83	-2.18	-3.05	-2.99	-1.79	-1.09	-0.53	-0.35	-0.16	-0.10	-0.25	-0.02	-0.03	-0.51	-1.21	-0.71	-1.12	-0.80	-0.34	-2.05
RAVENSWOOD_GT2_1 24244	20.94	19.67	18.07	16.48	17.26	19.98	25.85	28.32	25.29	22.36	23.02	22.79	22.70	23.88	24.46	25.15	28.42	33.05	36.21	36.74	35.96	32.79	25.11	23.57
	0.46	0.45	0.45	0.46	0.45	0.50	0.58	0.76	1.04	1.12	1.35	1.44	1.49	1.67	1.65	1.77	1.90	2.03	1.97	2.10	1.86	1.89	1.48	0.78
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT2_2 24245	20.94	19.67	18.07	16.48	17.26	19.98	25.85	28.32	25.29	22.36	23.02	22.79	22.70	23.88	24.46	25.15	28.42	33.05	36.21	36.74	35.96	32.79	25.11	23.57
	0.46	0.45	0.45	0.46	0.45	0.50	0.58	0.76	1.04	1.12	1.35	1.44	1.49	1.67	1.65	1.77	1.90	2.03	1.97	2.10	1.86	1.89	1.48	0.78
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT2_3 24246	20.95	19.68	18.08	16.48	17.26	19.98	25.86	28.32	25.30	22.36	23.02	22.81	22.70	23.90	24.46	25.15	28.44	33.05	36.23	36.74	35.99	32.79	25.11	23.57
	0.47	0.46	0.46	0.46	0.45	0.50	0.59	0.76	1.06	1.12	1.35	1.46	1.49	1.69	1.65	1.77	1.92	2.03	1.99	2.10	1.89	1.89	1.48	0.78
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT2_4 24247	20.95	19.68	18.08	16.48	17.26	19.98	25.86	28.32	25.30	22.36	23.02	22.81	22.70	23.90	24.46	25.15	28.44	33.05	36.23	36.74	35.99	32.79	25.11	23.57
	0.47	0.46	0.46	0.46	0.45	0.50	0.59	0.76	1.06	1.12	1.35	1.46	1.49	1.69	1.65	1.77	1.92	2.03	1.99	2.10	1.89	1.89	1.48	0.78
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT3_1 24248	20.94	19.67	18.07	16.48	17.26	19.98	25.85	28.32	25.30	22.36	23.02	22.81	22.70	23.88	24.46	25.15	28.42	33.05	36.21	36.74	35.96	32.79	25.11	23.57
	0.46	0.45	0.45	0.46	0.45	0.50	0.58	0.76	1.06	1.12	1.35	1.46	1.49	1.67	1.65	1.77	1.90	2.03	1.97	2.10	1.86	1.89	1.48	0.78
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT3_2 24249	20.94	19.67	18.07	16.48	17.26	19.98	25.85	28.32	25.30	22.36	23.02	22.81	22.70	23.88	24.46	25.15	28.42	33.05	36.21	36.74	35.96	32.79	25.11	23.57
	0.46	0.45	0.45	0.46	0.45	0.50	0.58	0.76	1.06	1.12	1.35	1.46	1.49	1.67	1.65	1.77	1.90	2.03	1.97	2.10	1.86	1.89	1.48	0.78
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT3_3 24250	20.95	19.68	18.08	16.48	17.27	19.99	25.86	28.33	25.32	22.38	23.04	22.83	22.72	23.92	24.49	25.18	28.47	33.07	36.26	36.77	36.01	32.82	25.13	23.58
	0.47	0.46	0.46	0.47	0.46	0.51	0.59	0.77	1.07	1.14	1.37	1.48	1.51	1.71	1.67	1.79	1.95	2.06	2.02	2.13	1.92	1.91	1.50	0.79
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT3_4 24251	20.95	19.68	18.08	16.48	17.27	19.99	25.86	28.33	25.32	22.38	23.04	22.83	22.72	23.92	24.49	25.18	28.47	33.07	36.26	36.77	36.01	32.82	25.13	23.58
	0.47	0.46	0.46	0.47	0.46	0.51	0.59	0.77	1.07	1.14	1.37	1.48	1.51	1.71	1.67	1.79	1.95	2.06	2.02	2.13	1.92	1.91	1.50	0.79
	-13.27	-12.15	-10.42	-8.82	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.53	-1.36	-0.12	-0.16	-2.79	-6.56	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT_1 23729	20.99	19.72	18.12	16.52	17.31	20.01	25.89	28.37	25.36	22.42	23.09	22.89	22.81	27.80	26.01	25.28	28.58	36.81	37.30	36.89	36.10	32.90	25.20	23.64
	0.50	0.49	0.49	0.50	0.49	0.53	0.62	0.81	1.12	1.18	1.43	1.54	1.59	1.80	1.76	1.88	2.06	2.17	2.10	2.25	2.00	1.99	1.57	0.84
	-13.28	-12.16	-10.43	-8.82	-9.61	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.87	-4.32	-2.80	-0.13	-0.17	-6.41	-7.52	-4.23	-6.69	-4.36	-1.83	-11.16
RAVENSWOOD_GT_10 24258	20.94	19.67	18.07	16.47	17.26	19.98	25.85	28.32	25.29	22.36	23.02	22.79	22.69	23.54	24.34	25.13	28.42	32.73	36.12	36.74	35.96	32.76	25.11	23.57
	0.46	0.45	0.45	0.45	0.45	0.50	0.58	0.76	1.04	1.12	1.35	1.44	1.49	1.67	1.65	1.75	1.90	2.03	1.97	2.10	1.86	1.86	1.48	0.78
	-13.27	-12.15	-10.42	-8.81	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.19	-1.23	-0.12	-0.16	-2.47	-6.48	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT_11 24259	20.94	19.67	18.07	16.47	17.26	19.98	25.85	28.32	25.29	22.36	23.02	22.79	22.69	23.54	24.34	25.13	28.42	32.73	36.12	36.74	35.96	32.76	25.11	23.57
	0.46	0.45	0.45	0.45	0.45	0.50	0.58	0.76	1.04	1.12	1.35	1.44	1.49	1.67	1.65	1.75	1.90	2.03	1.97	2.10	1.86	1.86	1.48	0.78
	-13.27	-12.15	-10.42	-8.81	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.86	-0.19	-1.23	-0.12	-0.16	-2.47	-6.48	-4.23	-6.69	-4.36	-1.83	-11.15
RAVENSWOOD_GT_4 24252	20.93	19.67	18.06	16.46	17.25	19.97	25.85	28.31	25.29	22.34	23.00	22.79	22.67	21.65	23.60	25.12	28.41	30.89	35.64	36.71	35.96	32.76	25.09	23.55
	0.45	0.45	0.45	0.45	0.45	0.49	0.58	0.75	1.04	1.11	1.33	1.44	1.47	1.67	1.63	1.75	1.90	2.00	1.97	2.07	1.86	1.86	1.46	0.77
	-13.27	-12.14	-10.41	-8.81	-9.60	-11.43	-16.02	-15.70	-9.38	-5.89	-2.86	-1.89	-0.85	1.70	-0.51	-0.12	-0.16	-0.67	-6.00	-4.23	-6.69	-4.36	-1.83	-11.14



RAVENSWOOD_GT_5 24254	20.93 0.45 -13.27	19.67 0.45 -12.14	18.06 0.45 -10.41	16.46 0.45 -8.81	17.25 0.45 -9.60	19.97 0.49 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.70	25.29 1.04 -9.38	22.34 1.11 -5.89	23.00 1.33 -2.86	22.79 1.44 -1.89	22.67 1.47 -0.85	21.65 1.67 1.70	23.60 1.63 -0.51	25.12 1.75 -0.12	28.41 1.90 -0.16	30.89 2.00 -0.67	35.64 1.97 -6.00	36.71 2.07 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.09 1.46 -1.83	23.55 0.77 -11.14
RAVENSWOOD_GT_6 24253	20.93 0.45 -13.27	19.67 0.45 -12.14	18.06 0.45 -10.41	16.46 0.45 -8.81	17.25 0.45 -9.60	19.97 0.49 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.70	25.29 1.04 -9.38	22.34 1.11 -5.89	23.00 1.33 -2.86	22.79 1.44 -1.89	22.67 1.47 -0.85	21.65 1.67 1.70	23.60 1.63 -0.51	25.12 1.75 -0.12	28.41 1.90 -0.16	30.89 2.00 -0.67	35.64 1.97 -6.00	36.71 2.07 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.09 1.46 -1.83	23.55 0.77 -11.14
RAVENSWOOD_GT_7 24255	20.93 0.45 -13.27	19.67 0.45 -12.14	18.06 0.45 -10.41	16.46 0.45 -8.81	17.25 0.45 -9.60	19.97 0.49 -11.43	25.85 0.58 -16.02	28.31 0.75 -15.70	25.29 1.04 -9.38	22.34 1.11 -5.89	23.00 1.33 -2.86	22.79 1.44 -1.89	22.67 1.47 -0.85	21.65 1.67 1.70	23.60 1.63 -0.51	25.12 1.75 -0.12	28.41 1.90 -0.16	30.89 2.00 -0.67	35.64 1.97 -6.00	36.71 2.07 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.09 1.46 -1.83	23.55 0.77 -11.14
RAVENSWOOD_GT_8 TEMP GRP(8-11) 24256	20.94 0.46 -13.27	19.67 0.45 -12.15	18.07 0.45 -10.42	16.47 0.45 -8.81	17.26 0.45 -9.60	19.98 0.50 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.70	25.29 1.04 -9.38	22.36 1.12 -5.89	23.02 1.35 -2.86	22.79 1.44 -1.89	22.69 1.49 -0.86	23.54 1.67 -0.19	24.34 1.65 -1.23	25.13 1.75 -0.12	28.42 1.90 -0.16	32.73 2.03 -2.47	36.12 1.97 -6.48	36.74 2.10 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
RAVENSWOOD_GT_9 24257	20.94 0.46 -13.27	19.67 0.45 -12.15	18.07 0.45 -10.42	16.47 0.45 -8.81	17.26 0.45 -9.60	19.98 0.50 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.70	25.29 1.04 -9.38	22.36 1.12 -5.89	23.02 1.35 -2.86	22.79 1.44 -1.89	22.69 1.49 -0.86	23.54 1.67 -0.19	24.34 1.65 -1.23	25.13 1.75 -0.12	28.42 1.90 -0.16	32.73 2.03 -2.47	36.12 1.97 -6.48	36.74 2.10 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
RAVENSWOOD___1 23533	20.99 0.50 -13.28	19.72 0.49 -12.16	18.11 0.49 -10.43	16.51 0.49 -8.82	17.30 0.48 -9.61	20.00 0.52 -11.43	25.88 0.61 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.41 1.17 -5.89	23.09 1.43 -2.86	22.89 1.54 -1.89	22.79 1.57 -0.86	27.32 1.78 -3.87	25.82 1.74 -2.63	25.25 1.86 -0.13	28.56 2.03 -0.17	36.34 2.14 -5.98	37.19 2.10 -7.40	36.86 2.22 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.64 0.84 -11.16
RAVENSWOOD___2 23534	20.98 0.49 -13.28	19.71 0.48 -12.16	18.11 0.48 -10.43	16.51 0.49 -8.82	17.30 0.48 -9.61	20.00 0.52 -11.43	25.88 0.61 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.41 1.17 -5.89	23.08 1.41 -2.86	22.87 1.52 -1.89	22.79 1.57 -0.86	27.29 1.76 -3.85	25.81 1.74 -2.62	25.25 1.86 -0.13	28.53 2.00 -0.17	36.33 2.14 -5.97	37.16 2.08 -7.40	36.83 2.19 -4.23	36.07 1.97 -6.69	32.87 1.96 -4.36	25.18 1.55 -1.83	23.63 0.83 -11.16
RAVENSWOOD___3 23535	20.94 0.46 -13.27	19.67 0.45 -12.15	18.07 0.45 -10.42	16.48 0.46 -8.82	17.26 0.45 -9.60	19.98 0.50 -11.43	25.85 0.58 -16.02	28.32 0.76 -15.70	25.30 1.06 -9.38	22.36 1.12 -5.89	23.02 1.35 -2.86	22.81 1.46 -1.89	22.70 1.49 -0.86	23.88 1.67 -0.53	24.46 1.65 -1.36	25.15 1.77 -0.12	28.42 1.90 -0.16	33.05 2.03 -2.79	36.21 1.97 -6.56	36.74 2.10 -4.23	35.96 1.86 -6.69	32.79 1.89 -4.36	25.11 1.48 -1.83	23.57 0.78 -11.15
RAVENSWOOD___4 23820	20.98 0.49 -13.28	19.71 0.48 -12.16	18.11 0.48 -10.42	16.50 0.48 -8.82	17.30 0.48 -9.61	20.00 0.52 -11.43	25.88 0.61 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.41 1.17 -5.89	23.08 1.41 -2.86	22.87 1.52 -1.89	22.76 1.55 -0.86	26.84 1.76 -3.40	25.62 1.72 -2.45	25.23 1.84 -0.13	28.53 2.00 -0.17	35.88 2.12 -5.54	37.04 2.08 -7.29	36.83 2.19 -4.23	36.04 1.95 -6.69	32.87 1.96 -4.36	25.16 1.53 -1.83	23.62 0.83 -11.16
RCPL_TRUST___DRP 24196	20.95 0.47 -13.27	19.68 0.46 -12.15	18.08 0.46 -10.42	16.48 0.46 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.87 0.60 -16.02	28.34 0.77 -15.69	25.32 1.07 -9.38	22.39 1.15 -5.89	23.06 1.39 -2.86	22.83 1.48 -1.89	22.74 1.53 -0.86	23.92 1.71 -0.53	24.49 1.67 -1.36	25.18 1.79 -0.12	28.47 1.95 -0.16	33.10 2.09 -2.79	36.26 2.02 -6.56	36.77 2.13 -4.23	36.02 1.92 -6.69	32.82 1.91 -4.36	25.07 1.44 -1.83	23.58 0.79 -11.15
RED___ROCHESTER 323720	9.19 0.14 -1.84	8.83 0.07 -1.69	8.74 0.09 -1.45	8.54 0.11 -1.22	8.68 0.14 -1.33	9.78 0.14 -1.59	11.59 0.11 -2.22	14.00 0.11 -2.18	16.09 -0.09 -1.30	16.01 -0.14 -0.79	19.00 -0.19 -0.39	19.44 -0.27 -0.25	20.35 -0.12 -0.12	21.75 0.00 -0.07	21.68 0.04 -0.18	23.26 -0.02 -0.02	26.32 -0.05 -0.02	28.43 -0.17 -0.38	28.37 -0.19 -0.88	30.69 -0.21 -0.48	28.06 -0.11 -0.76	27.24 0.11 -0.59	22.29 0.24 -0.25	13.46 0.31 -1.51
REGAN___SOLAR 323812	27.35 0.69 -19.45	25.48 0.61 -17.80	23.10 0.64 -15.26	20.73 0.62 -12.92	21.95 0.68 -14.07	25.60 0.80 -16.75	33.71 0.99 -23.46	36.00 1.14 -22.99	29.91 1.41 -13.62	25.12 1.18 -8.58	24.35 1.37 -4.18	23.73 1.50 -2.77	23.18 1.57 -1.26	23.97 1.52 -0.77	25.03 1.59 -1.99	25.30 1.86 -0.18	28.97 2.37 -0.24	35.26 2.93 -4.11	40.40 3.07 -9.65	46.48 3.50 -12.57	50.49 3.21 -19.87	35.61 2.65 -6.41	26.95 2.46 -2.69	29.15 1.12 -16.39
RENSSELAER___COGEN 23796	23.92 0.30 -16.42	22.38 0.28 -15.03	20.38 0.30 -12.89	18.40 0.30 -10.91	19.38 0.30 -11.88	22.52 0.33 -14.15	29.44 0.37 -19.81	31.74 0.45 -19.42	27.06 0.60 -11.60	23.21 0.58 -7.28	23.04 0.70 -3.54	22.53 0.74 -2.33	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.44 1.02 -0.15	27.74 1.19 -0.20	32.92 1.24 -3.45	37.01 1.22 -8.11	40.07 1.37 -8.28	41.75 1.23 -13.10	33.21 1.27 -5.39	25.15 1.09 -2.26	25.96 0.52 -13.79
REPUBLIC_115KV_BARTNBRK 55605	25.15 0.81 -17.13	23.46 0.71 -15.68	21.40 0.76 -13.44	19.30 0.72 -11.38	20.38 0.78 -12.39	23.71 0.91 -14.76	31.03 1.11 -20.67	33.49 1.36 -20.25	28.69 1.73 -12.09	24.50 1.55 -7.59	24.26 1.77 -3.69	23.84 1.95 -2.43	23.35 1.89 -1.11	24.51 2.15 -0.68	25.37 2.17 -1.75	25.79 2.37 -0.16	28.99 2.42 -0.21	34.53 2.71 -3.60	38.86 2.71 -8.47	46.55 3.19 -12.94	50.78 2.91 -20.46	34.69 2.52 -5.63	26.30 2.14 -2.36	26.95 0.92 -14.39
REVERE_CPPR_DRP 24186	8.22 0.20 -0.81	7.99 0.18 -0.74	8.01 0.18 -0.63	7.94 0.20 -0.54	8.01 0.22 -0.58	9.03 0.29 -0.70	10.58 0.35 -0.98	13.23 0.40 -0.96	15.84 0.40 -0.57	16.05 0.35 -0.35	19.52 0.55 -0.17	20.16 0.58 -0.11	21.04 0.63 -0.05	22.34 0.63 -0.03	22.14 0.60 -0.08	23.92 0.65 -0.01	27.26 0.90 -0.01	29.46 1.07 -0.17	29.18 1.11 -0.39	31.72 1.31 0.00	28.53 1.12 0.00	27.73 0.93 -0.26	22.80 0.89 -0.11	12.79 0.49 -0.66



REYNOLDS_115KV_TB3 80639	23.93 0.30 -16.42	22.38 0.28 -15.03	20.38 0.29 -12.89	18.39 0.29 -10.91	19.38 0.30 -11.88	22.52 0.32 -14.15	29.42 0.35 -19.81	31.71 0.43 -19.42	27.03 0.57 -11.60	23.20 0.57 -7.28	23.04 0.70 -3.54	22.52 0.72 -2.33	22.19 0.77 -1.06	23.24 0.91 -0.65	24.06 0.92 -1.68	24.41 1.00 -0.15	27.72 1.16 -0.20	32.89 1.21 -3.45	36.96 1.16 -8.11	40.37 1.31 -8.65	42.27 1.18 -13.68	33.21 1.27 -5.39	25.20 1.13 -2.26	25.98 0.55 -13.79
RIVERBAY____ 323610	21.03 0.54 -13.28	19.77 0.54 -12.16	18.17 0.55 -10.43	16.58 0.55 -8.82	17.37 0.55 -9.61	20.06 0.58 -11.43	25.90 0.63 -16.02	28.34 0.77 -15.70	25.32 1.07 -9.38	22.36 1.12 -5.89	23.04 1.37 -2.86	22.85 1.50 -1.89	22.77 1.57 -0.85	23.89 1.69 -0.52	24.48 1.67 -1.35	25.14 1.77 -0.11	28.43 1.92 -0.15	33.04 2.03 -2.78	36.22 1.99 -6.55	36.77 2.13 -4.23	36.02 1.92 -6.69	32.84 1.94 -4.36	25.24 1.61 -1.83	23.75 0.95 -11.16
RIVERSDE_115KV_TB3 55908	23.94 0.30 -16.43	22.40 0.29 -15.04	20.40 0.30 -12.90	18.41 0.30 -10.91	19.40 0.30 -11.89	22.54 0.34 -14.15	29.45 0.37 -19.82	31.75 0.45 -19.43	27.08 0.61 -11.60	23.23 0.60 -7.28	23.08 0.73 -3.54	22.55 0.76 -2.33	22.23 0.81 -1.06	23.29 0.95 -0.65	24.10 0.97 -1.68	24.48 1.07 -0.15	27.80 1.24 -0.20	32.95 1.27 -3.46	37.02 1.22 -8.12	40.32 1.37 -8.54	42.17 1.26 -13.50	33.24 1.30 -5.39	25.22 1.16 -2.26	26.00 0.56 -13.80
ROARING____BROOK_WT_PWR 323790	7.09 -0.12 0.00	6.97 -0.10 0.00	7.09 -0.11 0.00	7.08 -0.12 0.00	7.08 -0.13 0.00	7.89 -0.16 0.00	9.08 -0.18 0.00	11.68 -0.19 0.00	14.63 -0.24 0.00	15.14 -0.21 0.00	18.54 -0.26 0.00	19.17 -0.29 0.00	20.05 -0.30 0.00	21.31 -0.37 0.00	21.07 -0.39 0.00	22.82 -0.44 0.00	25.88 -0.47 0.00	27.71 -0.51 0.00	27.18 -0.50 0.00	29.81 -0.61 0.00	26.75 -0.66 0.00	25.72 -0.82 0.00	20.95 -0.85 0.00	11.12 -0.52 0.00
ROCHESRG_115KV_T4 355643	9.11 0.06 -1.83	8.76 0.01 -1.68	8.67 0.03 -1.44	8.46 0.04 -1.22	8.61 0.07 -1.33	9.69 0.06 -1.58	11.48 0.01 -2.21	13.86 -0.18 -2.17	15.92 -0.25 -1.30	15.84 -0.31 -0.79	18.73 -0.45 -0.38	19.23 -0.49 -0.25	20.02 -0.45 -0.11	21.49 -0.26 -0.07	21.42 -0.21 -0.18	22.95 -0.33 -0.02	25.98 -0.40 -0.02	28.09 -0.51 -0.38	28.01 -0.55 -0.88	30.26 -0.64 -0.48	27.71 -0.47 -0.76	26.89 -0.24 -0.59	22.07 0.02 -0.25	13.33 0.19 -1.50
ROCHESTER_9_IC 23652	9.16 0.11 -1.84	8.80 0.04 -1.69	8.71 0.06 -1.45	8.50 0.08 -1.22	8.65 0.11 -1.33	9.75 0.11 -1.59	11.54 0.06 -2.22	13.94 -0.11 -2.18	16.01 -0.16 -1.30	15.93 -0.21 -0.79	18.85 -0.34 -0.39	19.35 -0.37 -0.25	20.14 -0.33 -0.12	21.62 -0.13 -0.07	21.55 -0.09 -0.18	23.12 -0.16 -0.02	26.17 -0.21 -0.02	28.26 -0.34 -0.38	28.21 -0.36 -0.89	30.47 -0.43 -0.49	27.88 -0.30 -0.77	27.08 -0.05 -0.59	22.20 0.15 -0.25	13.40 0.26 -1.51
ROCKVIEW_13_KV_LD 356306	20.92 0.44 -13.27	19.65 0.43 -12.15	18.04 0.42 -10.42	16.44 0.42 -8.82	17.23 0.43 -9.60	19.96 0.48 -11.43	25.83 0.56 -16.02	28.29 0.72 -15.70	25.24 1.00 -9.38	22.30 1.06 -5.89	22.96 1.30 -2.86	22.73 1.38 -1.89	22.64 1.42 -0.86	23.81 1.60 -0.53	24.40 1.59 -1.36	25.11 1.72 -0.12	28.39 1.87 -0.16	33.02 2.00 -2.79	36.18 1.94 -6.56	36.74 2.10 -4.23	35.96 1.86 -6.69	32.76 1.86 -4.36	25.03 1.40 -1.83	23.52 0.73 -11.15
ROME____115KV_TB2 80656	8.22 0.20 -0.81	7.99 0.18 -0.74	8.01 0.18 -0.63	7.94 0.20 -0.54	8.01 0.22 -0.58	9.03 0.29 -0.70	10.58 0.35 -0.98	13.23 0.40 -0.96	15.84 0.40 -0.57	16.05 0.35 -0.35	19.52 0.55 -0.17	20.16 0.58 -0.11	21.04 0.63 -0.05	22.34 0.63 -0.03	22.14 0.60 -0.08	23.92 0.65 -0.01	27.26 0.90 -0.01	29.46 1.07 -0.17	29.18 1.11 -0.39	31.72 1.31 0.00	28.53 1.12 0.00	27.73 0.93 -0.26	22.80 0.89 -0.11	12.79 0.49 -0.66
ROSETON____1 23587	20.69 0.35 -13.13	19.44 0.35 -12.02	17.85 0.35 -10.31	16.27 0.35 -8.72	17.06 0.35 -9.50	19.75 0.39 -11.31	25.55 0.45 -15.84	27.97 0.57 -15.53	24.94 0.79 -9.28	22.02 0.84 -5.82	22.65 1.01 -2.83	22.42 1.09 -1.87	22.32 1.12 -0.85	23.48 1.28 -0.52	24.06 1.27 -1.34	24.76 1.37 -0.12	27.99 1.48 -0.16	32.59 1.61 -2.76	35.72 1.55 -6.49	36.25 1.64 -4.19	35.52 1.48 -6.63	32.34 1.49 -4.31	24.81 1.20 -1.81	23.29 0.62 -11.03
ROSETON____2 23588	20.69 0.35 -13.13	19.44 0.35 -12.02	17.85 0.35 -10.31	16.27 0.35 -8.72	17.06 0.35 -9.50	19.75 0.39 -11.31	25.55 0.45 -15.84	27.97 0.57 -15.53	24.94 0.79 -9.28	22.02 0.84 -5.82	22.65 1.01 -2.83	22.42 1.09 -1.87	22.32 1.12 -0.85	23.48 1.28 -0.52	24.06 1.27 -1.34	24.76 1.37 -0.12	27.99 1.48 -0.16	32.59 1.61 -2.76	35.72 1.55 -6.49	36.25 1.64 -4.19	35.52 1.48 -6.63	32.34 1.49 -4.31	24.81 1.20 -1.81	23.29 0.62 -11.03
ROTTDAM_115KV_TB3 80664	24.88 0.29 -17.38	23.25 0.27 -15.91	21.12 0.28 -13.64	19.03 0.28 -11.55	20.07 0.29 -12.57	23.35 0.33 -14.97	30.60 0.38 -20.97	32.87 0.45 -20.55	27.74 0.59 -12.27	23.64 0.58 -7.70	23.24 0.70 -3.75	22.67 0.74 -2.47	22.23 0.75 -1.12	23.24 0.87 -0.69	24.11 0.88 -1.78	24.40 0.98 -0.16	27.65 1.08 -0.21	33.06 1.19 -3.66	37.44 1.16 -8.59	45.64 1.31 -13.92	50.60 1.18 -22.01	33.40 1.14 -5.71	25.18 0.98 -2.40	26.71 0.47 -14.60
RUSSELL____1 23602	9.19 0.14 -1.84	8.83 0.07 -1.69	8.74 0.09 -1.45	8.54 0.12 -1.22	8.68 0.14 -1.33	9.78 0.14 -1.59	11.58 0.10 -2.22	14.00 -0.05 -2.18	16.09 -0.09 -1.30	16.01 -0.14 -0.79	18.96 -0.23 -0.39	19.44 -0.27 -0.25	20.25 -0.22 -0.12	21.75 0.00 -0.07	21.68 0.04 -0.18	23.26 -0.02 -0.02	26.32 -0.05 -0.02	28.46 -0.14 -0.38	28.37 -0.19 -0.89	30.69 -0.21 -0.49	28.07 -0.11 -0.77	27.24 0.11 -0.59	22.31 0.26 -0.25	13.46 0.31 -1.51
RUSSELL____2 23532	9.19 0.14 -1.84	8.83 0.07 -1.69	8.74 0.09 -1.45	8.54 0.12 -1.22	8.68 0.14 -1.33	9.78 0.14 -1.59	11.58 0.10 -2.22	14.00 -0.05 -2.18	16.09 -0.09 -1.30	16.01 -0.14 -0.79	18.96 -0.23 -0.39	19.44 -0.27 -0.25	20.25 -0.22 -0.12	21.75 0.00 -0.07	21.68 0.04 -0.18	23.26 -0.02 -0.02	26.32 -0.05 -0.02	28.46 -0.14 -0.38	28.37 -0.19 -0.89	30.69 -0.21 -0.49	28.07 -0.11 -0.77	27.24 0.11 -0.59	22.31 0.26 -0.25	13.46 0.31 -1.51
RUSSELL____3 23549	9.19 0.14 -1.84	8.83 0.07 -1.69	8.74 0.09 -1.45	8.54 0.12 -1.22	8.68 0.14 -1.33	9.78 0.14 -1.59	11.58 0.10 -2.22	14.00 -0.05 -2.18	16.09 -0.09 -1.30	16.01 -0.14 -0.79	18.96 -0.23 -0.39	19.44 -0.27 -0.25	20.25 -0.22 -0.12	21.75 0.00 -0.07	21.68 0.04 -0.18	23.26 -0.02 -0.02	26.32 -0.05 -0.02	28.46 -0.14 -0.38	28.37 -0.19 -0.89	30.69 -0.21 -0.49	28.07 -0.11 -0.77	27.24 0.11 -0.59	22.31 0.26 -0.25	13.46 0.31 -1.51
RUSSELL____4 23556	9.19 0.14 -1.84	8.83 0.07 -1.69	8.74 0.09 -1.45	8.54 0.12 -1.22	8.68 0.14 -1.33	9.78 0.14 -1.59	11.58 0.10 -2.22	14.00 -0.05 -2.18	16.09 -0.09 -1.30	16.01 -0.14 -0.79	18.96 -0.23 -0.39	19.44 -0.27 -0.25	20.25 -0.22 -0.12	21.75 0.00 -0.07	21.68 0.04 -0.18	23.26 -0.02 -0.02	26.32 -0.05 -0.02	28.46 -0.14 -0.38	28.37 -0.19 -0.89	30.69 -0.21 -0.49	28.07 -0.11 -0.77	27.24 0.11 -0.59	22.31 0.26 -0.25	13.46 0.31 -1.51



RUSSELL___STATION 23914	9.19 0.14 -1.84	8.83 0.07 -1.69	8.74 0.09 -1.45	8.54 0.12 -1.22	8.68 0.14 -1.33	9.78 0.14 -1.59	11.58 0.10 -2.22	14.00 -0.05 -2.18	16.09 -0.09 -1.30	16.01 -0.14 -0.79	18.96 -0.23 -0.39	19.44 -0.27 -0.25	20.25 -0.22 -0.12	21.75 0.00 -0.07	21.68 0.04 -0.18	23.26 -0.02 -0.02	26.32 -0.05 -0.02	28.46 -0.14 -0.38	28.37 -0.19 -0.89	30.69 -0.21 -0.49	28.07 -0.11 -0.77	27.24 0.11 -0.59	22.31 0.26 -0.25	13.46 0.31 -1.51
S SALMON___HYD 24043	8.36 -0.04 -1.19	8.10 -0.06 -1.09	8.08 -0.06 -0.94	7.95 -0.04 -0.79	8.04 -0.03 -0.86	9.08 0.00 -1.03	10.69 0.00 -1.44	13.20 -0.08 -1.41	15.54 -0.18 -0.85	15.64 -0.23 -0.52	18.83 -0.22 -0.25	19.37 -0.25 -0.17	20.19 -0.24 -0.08	21.47 -0.26 -0.05	21.32 -0.26 -0.12	23.02 -0.26 -0.01	26.13 -0.24 -0.01	28.21 -0.25 -0.24	28.00 -0.25 -0.57	30.23 -0.18 0.00	27.27 -0.14 0.00	26.80 -0.13 -0.38	21.96 0.00 -0.16	12.68 0.06 -0.98
S.PERRY___115KV_TB1 80734	10.27 0.53 -2.53	9.84 0.45 -2.32	9.67 0.48 -1.99	9.39 0.50 -1.68	9.57 0.53 -1.83	10.87 0.64 -2.18	13.00 0.69 -3.06	15.51 0.64 -3.00	17.25 0.58 -1.80	16.92 0.48 -1.09	19.95 0.62 -0.53	20.49 0.68 -0.35	21.22 0.71 -0.16	22.71 0.93 -0.10	22.71 1.01 -0.25	24.57 1.28 -0.02	26.76 0.37 -0.03	29.18 0.42 -0.54	29.41 0.47 -1.26	31.92 0.76 -0.74	29.41 0.82 -1.18	28.18 0.80 -0.84	23.05 0.89 -0.35	14.43 0.64 -2.15
SAWYER_23_KV_LOAD_REV_LBMP_A 345024	9.70 0.07 -2.42	9.28 0.00 -2.21	9.14 0.04 -1.90	8.86 0.06 -1.61	9.06 0.10 -1.75	10.19 0.06 -2.08	12.13 -0.04 -2.92	14.35 -0.38 -2.86	16.06 -0.52 -1.71	15.81 -0.58 -1.04	18.44 -0.86 -0.51	18.92 -0.88 -0.33	19.63 -0.88 -0.15	21.19 -0.59 -0.09	21.22 -0.47 -0.24	22.77 -0.51 -0.02	25.62 -0.76 -0.03	27.72 -0.99 -0.49	27.76 -1.08 -1.16	30.14 -0.94 -0.67	27.73 -0.74 -1.06	26.73 -0.58 -0.77	22.02 -0.11 -0.32	13.74 0.14 -1.96
SAWYER___23_KV_LOAD 55526	9.70 0.07 -2.42	9.28 0.00 -2.21	9.14 0.04 -1.90	8.86 0.06 -1.61	9.06 0.10 -1.75	10.19 0.06 -2.08	12.13 -0.04 -2.92	14.35 -0.38 -2.86	16.06 -0.52 -1.71	15.81 -0.58 -1.04	18.44 -0.86 -0.51	18.92 -0.88 -0.33	19.63 -0.88 -0.15	21.19 -0.59 -0.09	21.22 -0.47 -0.24	22.77 -0.51 -0.02	25.62 -0.76 -0.03	27.72 -0.99 -0.49	27.76 -1.08 -1.16	30.14 -0.94 -0.67	27.73 -0.74 -1.06	26.73 -0.58 -0.77	22.02 -0.11 -0.32	13.74 0.14 -1.96
SELKIRK___I 23801	23.68 0.30 -16.17	22.15 0.28 -14.80	20.19 0.30 -12.69	18.23 0.30 -10.74	19.21 0.30 -11.70	22.31 0.34 -13.93	29.13 0.37 -19.51	31.43 0.44 -19.12	26.87 0.58 -11.42	23.07 0.55 -7.17	22.95 0.66 -3.49	22.44 0.68 -2.30	22.11 0.71 -1.04	23.17 0.84 -0.64	23.99 0.88 -1.65	24.39 0.98 -0.15	27.69 1.13 -0.20	32.83 1.21 -3.40	36.86 1.19 -7.99	38.97 1.34 -7.22	40.06 1.23 -11.41	33.10 1.25 -5.31	25.10 1.07 -2.23	25.74 0.52 -13.58
SELKIRK___II 23799	23.86 0.27 -16.38	22.31 0.25 -14.99	20.32 0.27 -12.85	18.34 0.27 -10.88	19.33 0.27 -11.85	22.45 0.30 -14.11	29.34 0.33 -19.76	31.63 0.40 -19.36	26.97 0.53 -11.56	23.15 0.54 -7.26	22.97 0.64 -3.53	22.45 0.66 -2.33	22.12 0.71 -1.06	23.17 0.84 -0.65	23.97 0.84 -1.68	24.34 0.93 -0.15	27.64 1.08 -0.20	32.80 1.13 -3.44	36.85 1.08 -8.09	39.13 1.22 -7.50	40.37 1.10 -11.86	33.06 1.14 -5.38	25.04 0.98 -2.26	25.87 0.48 -13.75
SENECA OSWGO___HYD 24041	8.47 -0.08 -1.35	8.20 -0.11 -1.23	8.16 -0.09 -1.06	8.01 -0.09 -0.89	8.10 -0.08 -0.97	9.13 -0.07 -1.16	10.78 -0.09 -1.62	13.27 -0.19 -1.59	15.57 -0.25 -0.95	15.64 -0.29 -0.58	18.78 -0.30 -0.28	19.34 -0.31 -0.19	20.15 -0.28 -0.08	21.43 -0.30 -0.05	21.29 -0.30 -0.13	22.97 -0.30 -0.01	26.03 -0.34 -0.02	28.07 -0.42 -0.28	27.88 -0.44 -0.65	29.93 -0.49 0.00	27.03 -0.38 0.00	26.60 -0.37 -0.43	21.76 -0.22 -0.18	12.72 -0.02 -1.10
SENECA___115KV_TB3 355854	9.86 0.13 -2.53	9.44 0.06 -2.31	9.28 0.10 -1.98	8.99 0.12 -1.68	9.20 0.17 -1.83	10.35 0.13 -2.18	12.36 0.06 -3.05	14.61 -0.25 -2.99	16.30 -0.36 -1.79	16.04 -0.40 -1.09	18.69 -0.64 -0.53	19.19 -0.62 -0.35	19.90 -0.61 -0.16	21.47 -0.30 -0.10	21.51 -0.19 -0.25	23.19 -0.09 -0.02	25.99 -0.40 -0.03	28.14 -0.59 -0.51	28.22 -0.66 -1.21	30.76 -0.36 -0.71	28.31 -0.22 -1.12	27.06 -0.29 -0.80	22.25 0.11 -0.34	13.92 0.22 -2.05
SENECA___ENERGY 23797	8.97 -0.03 -1.79	8.65 -0.06 -1.64	8.56 -0.05 -1.41	8.35 -0.04 -1.19	8.47 -0.03 -1.30	9.59 0.00 -1.54	11.40 -0.02 -2.16	13.87 -0.12 -2.12	15.95 -0.19 -1.27	15.91 -0.21 -0.77	18.95 -0.22 -0.38	19.48 -0.23 -0.25	20.28 -0.18 -0.11	21.62 -0.13 -0.07	21.50 -0.13 -0.18	23.14 -0.14 -0.02	26.22 -0.16 -0.02	28.36 -0.23 -0.37	28.29 -0.25 -0.86	30.61 -0.27 -0.47	27.96 -0.19 -0.74	26.99 -0.13 -0.57	21.98 -0.07 -0.24	13.18 0.08 -1.46
SHOEMAKER___GT 23640	19.60 0.31 -12.08	18.43 0.30 -11.06	16.98 0.30 -9.48	15.52 0.30 -8.02	16.24 0.30 -8.74	18.78 0.33 -10.41	24.21 0.38 -14.58	26.62 0.46 -14.29	24.08 0.67 -8.53	21.40 0.69 -5.36	22.26 0.85 -2.61	22.08 0.90 -1.72	22.07 0.94 -0.78	23.26 1.11 -0.48	23.78 1.09 -1.24	24.58 1.21 -0.11	27.79 1.29 -0.15	32.17 1.41 -2.54	35.01 1.36 -5.97	35.71 1.43 -3.86	34.81 1.29 -6.11	31.79 1.27 -3.97	24.47 1.00 -1.67	22.30 0.51 -10.15
SHOEMAKR_138KV_BK 111 55601	19.52 0.31 -12.00	18.35 0.30 -10.98	16.91 0.30 -9.42	15.47 0.30 -7.97	16.19 0.30 -8.68	18.71 0.33 -10.34	24.11 0.38 -14.48	26.53 0.47 -14.19	24.02 0.67 -8.48	21.38 0.71 -5.32	22.26 0.86 -2.59	22.08 0.91 -1.70	22.06 0.94 -0.77	23.26 1.11 -0.48	23.78 1.09 -1.23	24.58 1.21 -0.11	27.79 1.29 -0.15	32.16 1.41 -2.53	34.97 1.36 -5.93	35.68 1.43 -3.84	34.77 1.29 -6.07	31.76 1.27 -3.94	24.44 0.98 -1.65	22.24 0.51 -10.08
SHOREHAM_IC_1 23715	22.81 0.45 -15.15	20.41 0.49 -12.84	18.11 0.49 -10.42	18.79 0.50 -11.10	17.40 0.51 -9.68	20.22 0.55 -11.62	25.85 0.57 -16.02	28.24 0.68 -15.70	25.16 0.91 -9.38	24.90 1.04 -8.51	25.33 1.05 -5.48	25.51 1.21 -4.84	25.80 1.20 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.09 1.58 -5.24	34.31 1.90 -6.05	42.05 2.00 -11.82	45.27 1.94 -15.65	41.06 2.10 -8.55	42.03 1.84 -12.78	34.39 1.83 -6.01	28.72 1.37 -5.54	24.49 0.73 -12.12
SHOREHAM_IC_2 23716	22.81 0.45 -15.15	20.41 0.49 -12.84	18.11 0.49 -10.42	18.79 0.50 -11.10	17.40 0.51 -9.68	20.22 0.55 -11.62	25.85 0.57 -16.02	28.24 0.68 -15.70	25.16 0.91 -9.38	24.90 1.04 -8.51	25.33 1.05 -5.48	25.51 1.21 -4.84	25.80 1.20 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.09 1.58 -5.24	34.31 1.90 -6.05	42.05 2.00 -11.82	45.27 1.94 -15.65	41.06 2.10 -8.55	42.03 1.84 -12.78	34.39 1.83 -6.01	28.72 1.37 -5.54	24.49 0.73 -12.12
SISSONVILLE___ 23735	7.06 -0.15 0.00	6.95 -0.12 0.00	7.06 -0.14 0.00	7.07 -0.13 0.00	7.08 -0.13 0.00	7.91 -0.14 0.00	9.13 -0.12 0.00	11.79 -0.08 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.13 -0.33 0.00	19.99 -0.37 0.00	21.03 -0.65 0.00	20.55 -0.90 0.00	22.26 -1.00 0.00	25.33 -1.03 0.00	27.15 -1.07 0.00	26.77 -0.91 0.00	29.41 -1.00 0.00	26.59 -0.82 0.00	25.83 -0.72 0.00	21.19 -0.61 0.00	11.30 -0.34 0.00



SITHE_IND_GS1 24169	8.19 -0.17 -1.16	7.94 -0.19 -1.06	7.92 -0.19 -0.91	7.79 -0.18 -0.77	7.87 -0.17 -0.84	8.86 -0.18 -1.00	10.43 -0.22 -1.40	12.89 -0.34 -1.37	15.23 -0.46 -0.82	15.36 -0.49 -0.50	18.48 -0.56 -0.24	19.02 -0.60 -0.16	19.84 -0.59 -0.07	21.09 -0.63 -0.04	20.95 -0.62 -0.12	22.60 -0.68 -0.01	25.60 -0.77 -0.01	27.58 -0.88 -0.24	27.35 -0.89 -0.56	29.47 -0.94 0.00	26.59 -0.82 0.00	26.15 -0.77 -0.37	21.39 -0.57 -0.16	12.37 -0.22 -0.95
SITHE_IND_GS2 24170	8.19 -0.17 -1.16	7.94 -0.19 -1.06	7.92 -0.19 -0.91	7.79 -0.18 -0.77	7.87 -0.17 -0.84	8.86 -0.18 -1.00	10.43 -0.22 -1.40	12.89 -0.34 -1.37	15.23 -0.46 -0.82	15.36 -0.49 -0.50	18.48 -0.56 -0.24	19.02 -0.60 -0.16	19.84 -0.59 -0.07	21.09 -0.63 -0.04	20.95 -0.62 -0.12	22.60 -0.68 -0.01	25.60 -0.77 -0.01	27.58 -0.88 -0.24	27.35 -0.89 -0.56	29.47 -0.94 0.00	26.59 -0.82 0.00	26.15 -0.77 -0.37	21.39 -0.57 -0.16	12.37 -0.22 -0.95
SITHE_IND_GS3 24171	8.19 -0.17 -1.16	7.94 -0.19 -1.06	7.92 -0.19 -0.91	7.79 -0.18 -0.77	7.87 -0.17 -0.84	8.86 -0.18 -1.00	10.43 -0.22 -1.40	12.89 -0.34 -1.37	15.23 -0.46 -0.82	15.36 -0.49 -0.50	18.48 -0.56 -0.24	19.02 -0.60 -0.16	19.84 -0.59 -0.07	21.09 -0.63 -0.04	20.95 -0.62 -0.12	22.60 -0.68 -0.01	25.60 -0.77 -0.01	27.58 -0.88 -0.24	27.35 -0.89 -0.56	29.47 -0.94 0.00	26.59 -0.82 0.00	26.15 -0.77 -0.37	21.39 -0.57 -0.16	12.37 -0.22 -0.95
SITHE_IND_GS4 24172	8.19 -0.17 -1.16	7.94 -0.19 -1.06	7.92 -0.19 -0.91	7.79 -0.18 -0.77	7.87 -0.17 -0.84	8.86 -0.18 -1.00	10.43 -0.22 -1.40	12.89 -0.34 -1.37	15.23 -0.46 -0.82	15.36 -0.49 -0.50	18.48 -0.56 -0.24	19.02 -0.60 -0.16	19.84 -0.59 -0.07	21.09 -0.63 -0.04	20.95 -0.62 -0.12	22.60 -0.68 -0.01	25.60 -0.77 -0.01	27.58 -0.88 -0.24	27.35 -0.89 -0.56	29.47 -0.94 0.00	26.59 -0.82 0.00	26.15 -0.77 -0.37	21.39 -0.57 -0.16	12.37 -0.22 -0.95
SITHE___BATAVIA 24024	9.41 0.35 -1.85	9.02 0.25 -1.69	8.92 0.27 -1.45	8.73 0.30 -1.23	8.87 0.32 -1.34	10.03 0.39 -1.59	11.86 0.38 -2.23	14.35 0.30 -2.19	16.48 0.30 -1.31	16.39 0.24 -0.80	19.49 0.30 -0.39	19.89 0.17 -0.25	20.84 0.37 -0.12	22.21 0.46 -0.07	22.11 0.47 -0.18	23.77 0.49 -0.02	26.88 0.50 -0.02	29.08 0.48 -0.38	29.07 0.50 -0.89	31.51 0.61 -0.48	28.81 0.63 -0.77	27.96 0.82 -0.59	22.86 0.81 -0.25	13.78 0.63 -1.51
SITHE___INDEPEND 23800	8.19 -0.17 -1.16	7.94 -0.19 -1.06	7.92 -0.19 -0.91	7.79 -0.18 -0.77	7.87 -0.17 -0.84	8.86 -0.19 -1.00	10.43 -0.22 -1.40	12.89 -0.34 -1.37	15.23 -0.46 -0.82	15.36 -0.49 -0.50	18.46 -0.58 -0.24	19.02 -0.60 -0.16	19.82 -0.61 -0.07	21.10 -0.63 -0.04	20.95 -0.62 -0.12	22.60 -0.67 -0.01	25.60 -0.76 -0.01	27.61 -0.85 -0.24	27.38 -0.86 -0.56	29.47 -0.94 0.00	26.59 -0.82 0.00	26.15 -0.77 -0.37	21.39 -0.57 -0.16	12.37 -0.22 -0.95
SITHE___MASSENA 23902	7.08 -0.13 0.00	6.97 -0.10 0.00	7.08 -0.12 0.00	7.08 -0.12 0.00	7.09 -0.12 0.00	7.91 -0.14 0.00	9.11 -0.14 0.00	11.76 -0.11 0.00	14.66 -0.21 0.00	15.18 -0.17 0.00	18.56 -0.24 0.00	19.15 -0.31 0.00	20.01 -0.35 0.00	21.16 -0.52 0.00	20.85 -0.60 0.00	22.61 -0.65 0.00	25.67 -0.69 0.00	27.54 -0.68 0.00	27.10 -0.58 0.00	29.77 -0.64 0.00	26.86 -0.55 0.00	25.94 -0.61 0.00	21.21 -0.59 0.00	11.33 -0.31 0.00
SITHE___OGDNSBRG 24021	7.11 -0.10 0.00	7.00 -0.07 0.00	7.11 -0.09 0.00	7.13 -0.07 0.00	7.14 -0.07 0.00	7.97 -0.07 0.00	9.21 -0.04 0.00	11.88 0.01 0.00	14.75 -0.12 0.00	15.26 -0.09 0.00	18.67 -0.13 0.00	19.27 -0.19 0.00	20.13 -0.22 0.00	21.22 -0.46 0.00	20.85 -0.60 0.00	22.57 -0.70 0.00	25.70 -0.66 0.00	27.63 -0.59 0.00	27.24 -0.44 0.00	29.96 -0.46 0.00	27.03 -0.38 0.00	26.12 -0.42 0.00	21.37 -0.44 0.00	11.40 -0.24 0.00
SITHE___STERLING 23777	8.31 0.17 -0.94	8.07 0.14 -0.86	8.08 0.14 -0.73	7.99 0.17 -0.62	8.06 0.18 -0.68	9.09 0.23 -0.81	10.67 0.29 -1.13	13.28 0.31 -1.11	15.85 0.31 -0.66	16.03 0.28 -0.40	19.43 0.43 -0.20	20.06 0.47 -0.13	20.92 0.51 -0.06	22.21 0.50 -0.04	22.04 0.49 -0.09	23.81 0.54 -0.01	27.08 0.71 -0.01	29.26 0.85 -0.19	28.96 0.83 -0.45	31.39 0.97 0.00	28.29 0.88 0.00	27.56 0.72 -0.30	22.63 0.70 -0.13	12.80 0.40 -0.76
SLEIGHT__34_KV_TB1 80719	9.18 0.16 -1.82	8.86 0.12 -1.66	8.76 0.14 -1.43	8.54 0.14 -1.21	8.67 0.15 -1.32	9.83 0.22 -1.57	11.71 0.27 -2.19	14.28 0.26 -2.15	16.43 0.27 -1.29	16.40 0.26 -0.78	19.56 0.38 -0.38	20.10 0.39 -0.25	20.89 0.43 -0.11	22.27 0.52 -0.07	22.17 0.54 -0.18	23.91 0.63 -0.02	27.06 0.69 -0.02	29.27 0.68 -0.37	29.13 0.58 -0.87	31.53 0.64 -0.48	28.79 0.63 -0.75	27.68 0.56 -0.58	22.63 0.59 -0.24	13.54 0.42 -1.48
SOUTH CAIRO___GT 23612	23.10 0.41 -15.48	21.61 0.37 -14.17	19.73 0.38 -12.15	17.85 0.37 -10.28	18.79 0.39 -11.20	21.81 0.43 -13.33	28.43 0.50 -18.67	30.76 0.59 -18.30	26.62 0.82 -10.93	22.94 0.72 -6.86	22.93 0.79 -3.34	22.46 0.80 -2.20	22.19 0.83 -1.00	23.33 1.04 -0.61	24.13 1.09 -1.58	24.75 1.35 -0.14	28.07 1.53 -0.19	33.23 1.75 -3.26	37.07 1.74 -7.65	39.12 1.89 -6.82	39.97 1.78 -10.78	33.30 1.67 -5.08	25.26 1.33 -2.13	25.24 0.60 -13.00
SOUTH HAMPTN___IC 23720	22.92 0.56 -15.15	20.50 0.59 -12.84	18.21 0.59 -10.42	18.90 0.60 -11.10	17.50 0.61 -9.68	20.33 0.67 -11.62	25.98 0.71 -16.02	28.41 0.84 -15.70	25.37 1.12 -9.38	25.10 1.24 -8.51	25.60 1.32 -5.48	25.76 1.46 -4.84	26.07 1.47 -4.25	26.78 1.89 -3.21	28.16 1.87 -4.84	30.55 2.05 -5.24	34.81 2.40 -6.05	42.55 2.51 -11.82	45.74 2.41 -15.65	41.60 2.64 -8.55	42.49 2.30 -12.78	34.87 2.31 -6.01	29.05 1.70 -5.54	24.65 0.90 -12.12
SOUTHDOW_115KV_TB1 355954	10.25 0.32 -2.72	9.80 0.24 -2.49	9.62 0.29 -2.14	9.32 0.32 -1.81	9.56 0.38 -1.97	10.79 0.40 -2.35	12.93 0.40 -3.28	15.28 0.19 -3.22	17.03 0.24 -1.92	16.77 0.25 -1.17	19.58 0.21 -0.57	20.09 0.25 -0.37	20.81 0.28 -0.17	22.43 0.65 -0.10	22.52 0.79 -0.27	24.33 1.05 -0.02	27.15 0.76 -0.03	29.48 0.71 -0.56	29.57 0.58 -1.31	32.34 1.16 -0.77	29.76 1.12 -1.22	28.05 0.64 -0.87	22.91 0.74 -0.36	14.33 0.47 -2.22
SOUTHOLD_69_KV_BK 2 55809	23.03 0.68 -15.15	20.61 0.70 -12.84	18.33 0.71 -10.42	19.01 0.71 -11.10	17.62 0.73 -9.68	20.45 0.79 -11.62	26.13 0.86 -16.02	28.60 1.03 -15.70	25.57 1.32 -9.38	25.33 1.47 -8.51	25.86 1.58 -5.48	26.04 1.73 -4.84	26.33 1.73 -4.25	27.17 2.28 -3.21	28.55 2.25 -4.84	30.99 2.49 -5.24	35.28 2.87 -6.05	43.03 2.99 -11.82	46.21 2.88 -15.65	42.19 3.22 -8.55	42.99 2.80 -12.78	35.37 2.81 -6.01	29.35 2.01 -5.54	24.82 1.06 -12.12
SOUTHOLD___IC 23719	23.03 0.68 -15.15	20.61 0.70 -12.84	18.33 0.71 -10.42	19.01 0.71 -11.10	17.62 0.73 -9.68	20.45 0.79 -11.62	26.13 0.86 -16.02	28.60 1.03 -15.70	25.57 1.32 -9.38	25.33 1.47 -8.51	25.84 1.56 -5.48	26.03 1.73 -4.84	26.33 1.73 -4.25	27.17 2.28 -3.21	28.55 2.25 -4.84	30.99 2.49 -5.24	35.28 2.87 -6.05	43.03 2.99 -11.82	46.21 2.88 -15.65	42.18 3.22 -8.55	42.99 2.80 -12.78	35.37 2.81 -6.01	29.37 2.03 -5.54	24.82 1.06 -12.12



SPIERFLS_115KV_TB 1 80737	24.85 0.49 -17.16	23.21 0.44 -15.70	21.12 0.46 -13.46	19.04 0.45 -11.39	20.09 0.48 -12.41	23.37 0.55 -14.78	30.61 0.66 -20.70	32.95 0.80 -20.28	28.02 1.04 -12.11	23.92 0.97 -7.60	23.63 1.13 -3.70	23.11 1.21 -2.44	22.56 1.10 -1.11	23.66 1.30 -0.68	24.52 1.31 -1.76	24.77 1.35 -0.16	27.62 1.05 -0.21	32.96 1.13 -3.61	37.32 1.16 -8.48	44.79 1.34 -13.04	49.24 1.21 -20.62	33.27 1.09 -5.63	25.15 0.98 -2.36	26.44 0.98 -14.41
ST LAWRENCE____ 23600	7.01 -0.20 0.00	6.90 -0.18 0.00	7.01 -0.19 0.00	7.01 -0.19 0.00	7.01 -0.20 0.00	7.81 -0.23 0.00	8.99 -0.26 0.00	11.61 -0.26 0.00	14.51 -0.36 0.00	15.00 -0.35 0.00	18.33 -0.47 0.00	18.96 -0.51 0.00	19.80 -0.55 0.00	20.98 -0.69 0.00	20.75 -0.71 0.00	22.47 -0.79 0.00	25.51 -0.84 0.00	27.35 -0.88 0.00	26.88 -0.80 0.00	29.50 -0.91 0.00	26.59 -0.82 0.00	25.67 -0.88 0.00	21.02 -0.78 0.00	11.20 -0.44 0.00
STATE_CA_115KV_115_LB 55624	24.32 0.35 -16.76	22.74 0.33 -15.34	20.69 0.34 -13.16	18.67 0.34 -11.13	19.68 0.35 -12.13	22.87 0.39 -14.44	29.91 0.43 -20.22	32.22 0.53 -19.82	27.42 0.71 -11.84	23.47 0.69 -7.43	23.26 0.85 -3.61	22.72 0.88 -2.38	22.37 0.94 -1.08	23.43 1.08 -0.67	24.26 1.09 -1.72	24.63 1.21 -0.15	27.98 1.42 -0.21	33.27 1.52 -3.53	37.43 1.47 -8.28	42.20 1.64 -10.14	44.92 1.48 -16.03	33.54 1.49 -5.50	25.38 1.26 -2.31	26.32 0.61 -14.08
STATE_ST_34_KV_LOAD 55959	9.14 0.05 -1.88	8.82 0.03 -1.72	8.71 0.04 -1.48	8.49 0.04 -1.25	8.61 0.04 -1.36	9.74 0.07 -1.62	11.62 0.10 -2.27	14.17 0.07 -2.23	16.25 0.04 -1.33	16.19 0.03 -0.81	19.29 0.09 -0.39	19.86 0.14 -0.26	20.63 0.16 -0.12	22.10 0.35 -0.07	22.01 0.36 -0.19	23.72 0.44 -0.02	26.85 0.47 -0.02	29.06 0.45 -0.38	28.97 0.39 -0.90	31.37 0.46 -0.50	28.66 0.47 -0.78	27.54 0.40 -0.60	22.29 0.24 -0.25	13.38 0.21 -1.53
STATION 5_MISC_HYD 23604	9.16 0.11 -1.84	8.80 0.04 -1.69	8.71 0.06 -1.45	8.51 0.09 -1.22	8.65 0.11 -1.33	9.75 0.11 -1.59	11.54 0.07 -2.22	13.94 -0.11 -2.18	16.01 -0.16 -1.30	15.93 -0.21 -0.79	18.91 -0.28 -0.39	19.35 -0.37 -0.25	20.23 -0.24 -0.12	21.62 -0.13 -0.07	21.55 -0.09 -0.18	23.12 -0.16 -0.02	26.17 -0.21 -0.02	28.26 -0.34 -0.38	28.18 -0.39 -0.88	30.47 -0.43 -0.48	27.90 -0.27 -0.76	27.08 -0.05 -0.59	22.16 0.11 -0.25	13.39 0.24 -1.51
STA_168_34_KV_BK1_2_REV_LBMP_B 345032	9.04 0.07 -1.76	8.70 0.02 -1.61	8.62 0.04 -1.38	8.42 0.05 -1.17	8.55 0.07 -1.27	9.66 0.10 -1.52	11.45 0.07 -2.12	13.91 -0.04 -2.08	16.04 -0.07 -1.24	16.00 -0.11 -0.76	19.00 -0.17 -0.37	19.51 -0.19 -0.24	20.32 -0.14 -0.11	21.73 -0.02 -0.07	21.63 0.00 -0.17	23.26 -0.02 -0.02	26.35 -0.03 -0.02	28.50 -0.08 -0.36	28.39 -0.14 -0.85	30.72 -0.15 -0.46	28.05 -0.08 -0.72	27.14 0.03 -0.56	22.21 0.17 -0.24	13.31 0.23 -1.44
STA_56_34_KV_BUS2_REV_LBMP_B 345033	9.08 0.06 -1.82	8.73 0.00 -1.66	8.64 0.01 -1.42	8.43 0.03 -1.21	8.57 0.05 -1.31	9.67 0.06 -1.56	11.45 0.01 -2.19	13.86 -0.15 -2.15	15.93 -0.22 -1.28	15.86 -0.28 -0.78	18.79 -0.39 -0.38	19.29 -0.43 -0.25	20.08 -0.39 -0.11	21.53 -0.22 -0.07	21.46 -0.17 -0.18	23.02 -0.26 -0.02	26.06 -0.32 -0.02	28.14 -0.45 -0.37	28.08 -0.47 -0.87	30.34 -0.55 -0.48	27.75 -0.41 -0.75	26.94 -0.19 -0.58	22.09 0.04 -0.24	13.30 0.17 -1.48
STA_56____34_KV_BUS2 355983	9.08 0.06 -1.82	8.73 0.00 -1.66	8.64 0.01 -1.42	8.43 0.03 -1.21	8.57 0.05 -1.31	9.67 0.06 -1.56	11.45 0.01 -2.19	13.86 -0.15 -2.15	15.93 -0.22 -1.28	15.86 -0.28 -0.78	18.79 -0.39 -0.38	19.29 -0.43 -0.25	20.08 -0.39 -0.11	21.53 -0.22 -0.07	21.46 -0.17 -0.18	23.02 -0.26 -0.02	26.06 -0.32 -0.02	28.14 -0.45 -0.37	28.08 -0.47 -0.87	30.34 -0.55 -0.48	27.75 -0.41 -0.75	26.94 -0.19 -0.58	22.09 0.04 -0.24	13.30 0.17 -1.48
STA_67____115KV_BK2 355882	9.14 0.09 -1.84	8.79 0.03 -1.69	8.70 0.05 -1.45	8.49 0.06 -1.22	8.63 0.09 -1.33	9.73 0.10 -1.59	11.51 0.04 -2.22	13.92 -0.13 -2.18	15.97 -0.21 -1.30	15.90 -0.25 -0.79	18.81 -0.38 -0.39	19.31 -0.41 -0.25	20.10 -0.37 -0.12	21.58 -0.17 -0.07	21.51 -0.13 -0.18	23.05 -0.23 -0.02	26.09 -0.29 -0.02	28.20 -0.40 -0.38	28.12 -0.44 -0.89	30.38 -0.52 -0.48	27.82 -0.36 -0.77	27.00 -0.13 -0.59	22.16 0.11 -0.25	13.37 0.22 -1.51
STA_7____115KV_9TRANS 80674	9.19 0.14 -1.84	8.83 0.07 -1.69	8.74 0.09 -1.45	8.54 0.12 -1.22	8.68 0.14 -1.33	9.78 0.14 -1.59	11.58 0.10 -2.22	14.00 -0.05 -2.18	16.09 -0.09 -1.30	16.01 -0.14 -0.79	18.96 -0.23 -0.39	19.44 -0.27 -0.25	20.25 -0.22 -0.12	21.75 0.00 -0.07	21.68 0.04 -0.18	23.26 -0.02 -0.02	26.32 -0.05 -0.02	28.46 -0.14 -0.38	28.37 -0.19 -0.89	30.69 -0.21 -0.49	28.07 -0.11 -0.77	27.24 0.11 -0.59	22.31 0.26 -0.25	13.46 0.31 -1.51
STA_82____115KV_TB1 80780	9.15 0.09 -1.85	8.80 0.04 -1.69	8.70 0.05 -1.45	8.50 0.07 -1.23	8.64 0.09 -1.34	9.74 0.10 -1.59	11.53 0.05 -2.23	13.92 -0.13 -2.19	15.99 -0.19 -1.31	15.90 -0.25 -0.80	18.81 -0.38 -0.39	19.31 -0.41 -0.25	20.10 -0.37 -0.12	21.58 -0.17 -0.07	21.51 -0.13 -0.18	23.07 -0.21 -0.02	26.09 -0.29 -0.02	28.20 -0.40 -0.38	28.13 -0.44 -0.89	30.41 -0.49 -0.49	27.82 -0.36 -0.77	27.03 -0.11 -0.59	22.16 0.11 -0.25	13.39 0.23 -1.51
STEEL____WIND 323596	9.86 0.12 -2.53	9.43 0.05 -2.31	9.28 0.09 -1.98	8.99 0.11 -1.68	9.19 0.16 -1.83	10.34 0.12 -2.18	12.35 0.05 -3.05	14.59 -0.26 -2.99	16.29 -0.37 -1.79	16.03 -0.41 -1.09	18.75 -0.58 -0.53	19.17 -0.64 -0.35	20.00 -0.51 -0.16	21.43 -0.35 -0.10	21.49 -0.21 -0.25	23.15 -0.14 -0.02	25.96 -0.42 -0.03	28.12 -0.62 -0.52	28.20 -0.69 -1.21	30.73 -0.40 -0.71	28.28 -0.25 -1.12	27.03 -0.32 -0.80	22.20 0.07 -0.34	13.90 0.21 -2.05
STEPHTWN_115KV_BK_2 55603	23.99 0.36 -16.42	22.44 0.34 -15.03	20.44 0.35 -12.89	18.46 0.35 -10.91	19.44 0.35 -11.88	22.60 0.41 -14.15	29.53 0.46 -19.81	31.84 0.56 -19.42	27.21 0.74 -11.60	23.37 0.74 -7.28	23.23 0.88 -3.54	22.71 0.91 -2.33	22.37 0.96 -1.06	23.46 1.13 -0.65	24.29 1.16 -1.68	24.72 1.30 -0.15	28.09 1.53 -0.20	33.31 1.64 -3.45	37.40 1.61 -8.11	40.49 1.79 -8.29	42.13 1.62 -13.10	33.53 1.59 -5.39	25.44 1.37 -2.26	26.08 0.65 -13.79
STEBEN_REC_LFGE 323667	11.01 0.53 -3.26	10.52 0.46 -2.99	10.27 0.51 -2.56	9.89 0.53 -2.17	10.11 0.54 -2.36	11.52 0.66 -2.81	13.94 0.75 -3.94	16.45 0.72 -3.86	17.95 0.76 -2.32	17.48 0.72 -1.40	20.44 0.96 -0.68	21.00 1.09 -0.45	21.68 1.12 -0.20	23.19 1.39 -0.13	23.24 1.46 -0.32	25.18 1.88 -0.03	27.26 0.87 -0.04	29.77 0.87 -0.68	30.05 0.78 -1.59	32.57 1.19 -0.97	30.10 1.15 -1.54	28.43 0.82 -1.06	23.10 0.85 -0.44	14.93 0.58 -2.70
STONY____BROOK 24151	22.91 0.55 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.57 -11.10	17.47 0.58 -9.68	20.30 0.64 -11.62	25.97 0.70 -16.02	28.43 0.87 -15.70	25.41 1.16 -9.38	25.13 1.27 -8.51	25.69 1.41 -5.48	25.84 1.54 -4.84	26.15 1.55 -4.25	26.88 1.99 -3.21	28.25 1.95 -4.84	30.60 2.09 -5.24	34.86 2.45 -6.05	42.55 2.51 -11.82	45.79 2.46 -15.65	41.73 2.77 -8.55	42.55 2.36 -12.78	34.95 2.39 -6.01	29.11 1.77 -5.54	24.69 0.93 -12.12



STURGEON_POOL_HYD 23609	20.94 0.34 -13.39	19.67 0.35 -12.26	18.04 0.33 -10.51	16.42 0.33 -8.89	17.23 0.33 -9.69	19.94 0.36 -11.54	25.83 0.42 -16.16	28.24 0.53 -15.83	25.13 0.80 -9.46	22.15 0.86 -5.94	22.76 1.07 -2.89	22.49 1.13 -1.90	22.38 1.16 -0.86	23.47 1.26 -0.53	24.05 1.22 -1.37	24.83 1.44 -0.12	27.94 1.42 -0.16	32.62 1.58 -2.82	35.82 1.52 -6.62	36.66 1.49 -4.75	36.33 1.40 -7.52	32.30 1.35 -4.40	24.69 1.05 -1.85	23.45 0.56 -11.25
SUGRLOAF_69_KV_LOAD_REV_LBMP_G 345026	19.90 0.35 -12.35	18.72 0.34 -11.30	17.23 0.34 -9.69	15.74 0.34 -8.20	16.48 0.34 -8.94	19.07 0.38 -10.64	24.59 0.43 -14.90	27.02 0.55 -14.60	24.37 0.77 -8.73	21.66 0.83 -5.48	22.48 1.02 -2.67	22.29 1.07 -1.75	22.27 1.12 -0.80	23.41 1.24 -0.49	23.94 1.22 -1.26	24.73 1.35 -0.11	27.96 1.45 -0.15	32.40 1.58 -2.60	35.31 1.52 -6.11	35.94 1.58 -3.95	35.08 1.43 -6.24	32.01 1.41 -4.06	24.62 1.11 -1.70	22.60 0.58 -10.38
SWANROAD_115KV_TB1 355699	9.47 -0.05 -2.31	9.07 -0.12 -2.12	8.93 -0.08 -1.81	8.67 -0.06 -1.54	8.87 -0.01 -1.67	9.92 -0.13 -2.00	11.73 -0.33 -2.81	13.83 -0.80 -2.75	15.46 -1.06 -1.64	15.20 -1.15 -1.00	17.80 -1.49 -0.49	18.27 -1.52 -0.32	18.95 -1.55 -0.15	20.47 -1.30 -0.09	20.51 -1.18 -0.23	21.98 -1.30 -0.02	24.75 -1.63 -0.03	26.80 -1.89 -0.47	26.72 -2.08 -1.11	29.11 -1.95 -0.64	26.67 -1.75 -1.01	25.88 -1.41 -0.74	21.35 -0.76 -0.31	13.26 -0.27 -1.89
SYNERGY___BIOGAS 323694	9.41 0.35 -1.85	9.02 0.25 -1.69	8.92 0.27 -1.45	8.73 0.30 -1.23	8.87 0.32 -1.34	10.03 0.39 -1.59	11.86 0.38 -2.23	14.35 0.30 -2.19	16.48 0.30 -1.31	16.39 0.24 -0.80	19.49 0.30 -0.39	19.89 0.17 -0.25	20.84 0.37 -0.12	22.21 0.46 -0.07	22.11 0.47 -0.18	23.77 0.49 -0.02	26.88 0.50 -0.02	29.08 0.48 -0.38	29.07 0.50 -0.89	31.51 0.61 -0.48	28.81 0.63 -0.77	27.96 0.82 -0.59	22.86 0.81 -0.25	13.78 0.63 -1.51
SYRACUSE___ENERGY_ST1 323597	8.80 -0.01 -1.60	8.50 -0.04 -1.46	8.43 -0.02 -1.25	8.25 -0.01 -1.06	8.35 -0.01 -1.15	9.43 0.01 -1.38	11.18 0.00 -1.93	13.69 -0.07 -1.89	15.90 -0.10 -1.13	15.92 -0.12 -0.69	19.04 -0.09 -0.33	19.59 -0.10 -0.22	20.39 -0.06 -0.10	21.68 -0.06 -0.06	21.57 -0.04 -0.16	23.28 0.00 -0.01	26.35 -0.03 -0.02	28.49 -0.06 -0.33	28.34 -0.11 -0.77	30.70 -0.12 -0.40	27.99 -0.05 -0.64	26.98 -0.08 -0.51	22.02 0.00 -0.21	13.03 0.08 -1.30
SYRACUSE___ENERGY_ST2 323598	8.80 -0.01 -1.60	8.50 -0.04 -1.46	8.43 -0.02 -1.25	8.25 -0.01 -1.06	8.35 -0.01 -1.15	9.43 0.01 -1.38	11.18 0.00 -1.93	13.69 -0.07 -1.89	15.90 -0.10 -1.13	15.92 -0.12 -0.69	19.04 -0.09 -0.33	19.59 -0.10 -0.22	20.39 -0.06 -0.10	21.68 -0.06 -0.06	21.57 -0.04 -0.16	23.28 0.00 -0.01	26.35 -0.03 -0.02	28.49 -0.06 -0.33	28.34 -0.11 -0.77	30.70 -0.12 -0.40	27.99 -0.05 -0.64	26.98 -0.08 -0.51	22.02 0.00 -0.21	13.03 0.08 -1.30
SYRACUSE___POWER 24017	8.86 -0.01 -1.66	8.56 -0.04 -1.52	8.48 -0.02 -1.30	8.29 -0.01 -1.10	8.40 -0.01 -1.20	9.48 0.01 -1.43	11.25 0.00 -2.00	13.77 -0.06 -1.96	15.94 -0.10 -1.17	15.95 -0.12 -0.72	19.04 -0.11 -0.35	19.59 -0.10 -0.23	20.38 -0.08 -0.10	21.70 -0.04 -0.06	21.60 -0.02 -0.17	23.28 0.00 -0.01	26.37 0.00 -0.02	28.53 -0.03 -0.34	28.39 -0.08 -0.80	30.78 -0.06 -0.42	28.05 -0.03 -0.67	27.02 -0.05 -0.53	22.05 0.02 -0.22	13.08 0.08 -1.36
TALLMAN__138KV_BK151 55660	20.31 0.40 -12.71	19.09 0.39 -11.63	17.55 0.38 -9.97	16.03 0.39 -8.44	16.79 0.39 -9.19	19.43 0.43 -10.95	25.08 0.50 -15.33	27.53 0.64 -15.02	24.74 0.89 -8.98	21.94 0.95 -5.64	22.73 1.18 -2.74	22.51 1.25 -1.80	22.46 1.28 -0.82	23.64 1.45 -0.50	24.19 1.44 -1.30	24.94 1.56 -0.12	28.20 1.69 -0.16	32.73 1.83 -2.67	35.73 1.77 -6.28	36.33 1.86 -4.06	35.50 1.67 -6.42	32.37 1.65 -4.17	24.82 1.26 -1.75	22.98 0.66 -10.67
TEALLAVE_115KV_TB7 355573	8.60 -0.03 -1.42	8.32 -0.06 -1.30	8.27 -0.04 -1.12	8.10 -0.04 -0.95	8.21 -0.03 -1.03	9.25 -0.02 -1.23	10.94 -0.03 -1.72	13.45 -0.11 -1.68	15.73 -0.15 -1.01	15.80 -0.17 -0.61	18.93 -0.17 -0.30	19.50 -0.16 -0.20	20.28 -0.16 -0.09	21.60 -0.13 -0.05	21.49 -0.11 -0.14	23.18 -0.09 -0.01	26.27 -0.11 -0.02	28.34 -0.17 -0.29	28.14 -0.22 -0.68	30.55 -0.21 -0.35	27.80 -0.16 -0.55	26.82 -0.19 -0.45	21.93 -0.07 -0.19	12.85 0.05 -1.16
TELGRAPH_34_KV_EAST 80808	9.53 0.09 -2.23	9.13 0.01 -2.04	9.01 0.06 -1.75	8.76 0.08 -1.48	8.94 0.12 -1.61	10.03 0.06 -1.93	11.88 -0.07 -2.70	14.08 -0.44 -2.65	15.86 -0.59 -1.58	15.64 -0.68 -0.96	18.33 -0.94 -0.47	18.80 -0.97 -0.31	19.52 -0.98 -0.14	21.03 -0.74 -0.09	21.05 -0.62 -0.22	22.61 -0.67 -0.02	25.46 -0.92 -0.03	27.58 -1.10 -0.46	27.51 -1.25 -1.07	29.93 -1.09 -0.61	27.45 -0.93 -0.97	26.57 -0.69 -0.71	21.93 -0.17 -0.30	13.53 0.07 -1.82
TEMPLE___115KV_TB 2 55572	8.62 -0.03 -1.44	8.34 -0.05 -1.32	8.29 -0.04 -1.13	8.12 -0.04 -0.96	8.22 -0.03 -1.04	9.27 -0.02 -1.24	10.96 -0.03 -1.74	13.48 -0.09 -1.70	15.74 -0.15 -1.02	15.81 -0.17 -0.62	18.93 -0.17 -0.30	19.51 -0.16 -0.20	20.30 -0.14 -0.09	21.63 -0.11 -0.06	21.51 -0.09 -0.14	23.21 -0.07 -0.01	26.27 -0.11 -0.02	28.37 -0.14 -0.30	28.18 -0.19 -0.69	30.55 -0.21 -0.35	27.80 -0.16 -0.56	26.85 -0.16 -0.46	21.95 -0.04 -0.19	12.87 0.05 -1.18
TIANA____69_KV_BK 1 55817	22.89 0.53 -15.15	20.48 0.57 -12.84	18.19 0.57 -10.42	18.87 0.57 -11.10	17.47 0.58 -9.68	20.30 0.64 -11.62	25.95 0.68 -16.02	28.38 0.81 -15.70	25.32 1.07 -9.38	25.07 1.21 -8.51	25.56 1.28 -5.48	25.72 1.42 -4.84	26.02 1.42 -4.25	26.73 1.84 -3.21	28.12 1.82 -4.84	30.48 1.98 -5.24	34.73 2.32 -6.05	42.44 2.40 -11.82	45.65 2.33 -15.65	41.49 2.52 -8.55	42.39 2.19 -12.78	34.81 2.26 -6.01	28.94 1.59 -5.54	24.61 0.85 -12.12
TILDEN___115KV_TB1 80814	8.86 -0.01 -1.66	8.56 -0.04 -1.52	8.48 -0.02 -1.30	8.29 -0.01 -1.10	8.40 -0.01 -1.20	9.48 0.01 -1.43	11.25 0.00 -2.00	13.77 -0.06 -1.96	15.94 -0.10 -1.17	15.95 -0.12 -0.72	19.04 -0.11 -0.35	19.59 -0.10 -0.23	20.38 -0.08 -0.10	21.70 -0.04 -0.06	21.60 -0.02 -0.17	23.28 0.00 -0.01	26.37 0.00 -0.02	28.53 -0.03 -0.34	28.39 -0.08 -0.80	30.78 -0.06 -0.42	28.05 -0.03 -0.67	27.02 -0.05 -0.53	22.05 0.02 -0.22	13.08 0.08 -1.36
TRIGEN___CC 323695	22.88 0.53 -15.15	20.43 0.52 -12.84	18.14 0.52 -10.42	18.82 0.53 -11.10	17.41 0.53 -9.68	20.25 0.59 -11.62	25.95 0.68 -16.02	28.41 0.84 -15.70	25.40 1.15 -9.38	25.10 1.24 -8.51	25.73 1.45 -5.48	25.86 1.56 -4.84	26.19 1.59 -4.25	26.78 1.89 -3.21	28.14 1.85 -4.84	30.46 1.95 -5.24	34.57 2.16 -6.05	42.33 2.29 -11.82	45.57 2.24 -15.65	41.36 2.40 -8.55	42.36 2.17 -12.78	34.73 2.18 -6.01	29.00 1.66 -5.54	24.64 0.88 -12.12
TRINITY__115KV__ 4 BK 55933	23.95 0.30 -16.44	22.41 0.29 -15.05	20.40 0.30 -12.91	18.42 0.30 -10.92	19.41 0.30 -11.90	22.55 0.34 -14.16	29.46 0.37 -19.84	31.76 0.45 -19.44	27.09 0.61 -11.61	23.24 0.60 -7.29	23.08 0.73 -3.54	22.56 0.76 -2.33	22.23 0.81 -1.06	23.29 0.95 -0.65	24.10 0.97 -1.68	24.48 1.07 -0.15	27.80 1.24 -0.20	32.95 1.27 -3.46	37.05 1.25 -8.12	40.18 1.40 -8.37	41.90 1.26 -13.23	33.25 1.30 -5.40	25.22 1.16 -2.27	26.00 0.55 -13.81



UNION___PROCESSING_DRP 323587	9.16 0.10 -1.85	8.80 0.04 -1.69	8.71 0.06 -1.45	8.50 0.07 -1.23	8.64 0.09 -1.34	9.74 0.10 -1.59	11.53 0.05 -2.23	13.94 -0.12 -2.19	15.99 -0.19 -1.31	15.90 -0.25 -0.80	18.83 -0.36 -0.39	19.31 -0.41 -0.25	20.10 -0.37 -0.12	21.60 -0.15 -0.07	21.53 -0.11 -0.18	23.09 -0.19 -0.02	26.11 -0.26 -0.02	28.20 -0.40 -0.38	28.15 -0.42 -0.89	30.42 -0.49 -0.49	27.85 -0.33 -0.77	27.03 -0.11 -0.59	22.18 0.13 -0.25	13.39 0.23 -1.51
UPPER HUDSON___HYD 24058	24.85 0.49 -17.16	23.21 0.44 -15.70	21.12 0.46 -13.46	19.04 0.45 -11.39	20.09 0.48 -12.41	23.37 0.55 -14.78	30.61 0.66 -20.70	32.95 0.80 -20.28	28.02 1.04 -12.11	23.92 0.97 -7.60	23.63 1.13 -3.70	23.11 1.21 -2.44	22.54 1.08 -1.11	23.66 1.30 -0.68	24.52 1.31 -1.76	24.77 1.35 -0.16	27.62 1.06 -0.21	32.96 1.13 -3.61	37.32 1.16 -8.48	44.82 1.34 -13.07	49.28 1.20 -20.66	33.27 1.09 -5.63	25.15 0.98 -2.36	26.42 0.37 -14.41
UPPER RAQUET___HYD 24056	7.06 -0.15 0.00	6.95 -0.12 0.00	7.06 -0.14 0.00	7.07 -0.13 0.00	7.08 -0.13 0.00	7.91 -0.14 0.00	9.13 -0.12 0.00	11.79 -0.08 0.00	14.65 -0.22 0.00	15.17 -0.18 0.00	18.54 -0.26 0.00	19.13 -0.33 0.00	19.97 -0.39 0.00	21.03 -0.65 0.00	20.55 -0.90 0.00	22.26 -1.00 0.00	25.33 -1.03 0.00	27.15 -1.07 0.00	26.77 -0.91 0.00	29.41 -1.00 0.00	26.59 -0.82 0.00	25.83 -0.72 0.00	21.19 -0.61 0.00	11.30 -0.34 0.00
VALLEY44_115KV_TB2 355964	10.05 0.06 -2.78	9.63 0.01 -2.55	9.43 0.04 -2.18	9.10 0.06 -1.85	9.32 0.10 -2.01	10.53 0.08 -2.40	12.63 0.02 -3.36	14.91 -0.25 -3.29	16.48 -0.36 -1.97	16.17 -0.38 -1.20	18.82 -0.56 -0.58	19.32 -0.53 -0.38	20.00 -0.53 -0.17	21.55 -0.24 -0.11	21.60 -0.13 -0.28	23.64 0.35 -0.02	26.10 -0.29 -0.03	28.34 -0.45 -0.57	28.46 -0.55 -1.34	31.39 0.18 -0.79	28.91 0.25 -1.26	27.14 -0.29 -0.89	22.15 -0.02 -0.37	14.04 0.13 -2.27
VALLEY___115KV_TB 1-4 80826	7.26 0.06 0.00	7.11 0.04 0.00	7.24 0.04 0.00	7.24 0.04 0.00	7.24 0.04 0.00	8.11 0.06 0.00	9.34 0.09 0.00	11.98 0.11 0.00	14.99 0.12 0.00	15.49 0.14 0.00	19.01 0.21 0.00	19.74 0.27 0.00	20.62 0.26 0.00	21.85 0.17 0.00	21.63 0.17 0.00	23.45 0.19 0.00	26.59 0.24 0.00	28.50 0.28 0.00	27.93 0.25 0.00	30.69 0.27 0.00	27.60 0.19 0.00	26.71 0.16 0.00	22.04 0.24 0.00	11.76 0.12 0.00
VINEGAR_115_KV_917_CH_LD_REV_LBMP_E 345011	13.06 0.28 -5.57	12.43 0.26 -5.10	11.84 0.27 -4.37	11.18 0.28 -3.70	11.52 0.29 -4.03	13.18 0.34 -4.80	16.37 0.40 -6.72	18.91 0.45 -6.59	19.38 0.55 -3.96	17.89 0.72 -1.82	20.72 1.03 -0.89	21.17 1.13 -0.58	21.80 1.18 -0.26	23.34 1.50 -0.16	23.38 1.50 -0.42	25.00 1.70 -0.04	28.46 2.06 -0.05	31.43 2.34 -0.86	32.00 2.30 -2.03	34.45 2.77 -1.27	31.86 2.44 -2.01	30.02 2.12 -1.35	24.07 1.70 -0.56	16.04 0.95 -3.44
VISCHER___FERRY HYD 24020	24.23 0.32 -16.71	22.66 0.30 -15.29	20.62 0.31 -13.11	18.61 0.31 -11.10	19.61 0.32 -12.09	22.79 0.35 -14.39	29.82 0.41 -20.16	32.11 0.49 -19.76	27.29 0.62 -11.80	23.37 0.61 -7.40	23.12 0.71 -3.60	22.59 0.76 -2.37	22.20 0.77 -1.08	23.27 0.93 -0.66	24.11 0.94 -1.71	24.44 1.02 -0.15	27.72 1.16 -0.20	32.98 1.24 -3.51	37.12 1.19 -8.26	42.91 1.37 -11.13	46.27 1.26 -17.60	33.31 1.27 -5.49	25.22 1.11 -2.30	26.20 0.52 -14.03
V_A_10_SYNC_DSASP 323832	9.34 0.04 -2.09	8.97 -0.01 -1.91	8.85 0.01 -1.64	8.62 0.04 -1.38	8.78 0.06 -1.51	9.88 0.03 -1.80	11.71 -0.06 -2.52	13.98 -0.36 -2.47	15.85 -0.49 -1.47	15.70 -0.55 -0.90	18.50 -0.73 -0.44	18.93 -0.82 -0.29	19.77 -0.71 -0.13	21.18 -0.58 -0.08	21.15 -0.52 -0.21	22.61 -0.68 -0.02	25.59 -0.79 -0.02	27.63 -1.01 -0.43	27.63 -1.05 -1.00	29.79 -1.19 -0.56	27.37 -0.93 -0.89	26.65 -0.56 -0.66	21.91 -0.18 -0.28	13.47 0.13 -1.70
V_CMM_10_SYNC_DSASP 323787	7.03 -0.17 0.00	6.92 -0.15 0.00	7.04 -0.16 0.00	7.03 -0.17 0.00	7.03 -0.17 0.00	7.85 -0.20 0.00	9.04 -0.21 0.00	11.66 -0.21 0.00	14.57 -0.30 0.00	15.08 -0.28 0.00	18.42 -0.38 0.00	19.03 -0.43 0.00	19.89 -0.47 0.00	21.07 -0.61 0.00	20.81 -0.64 0.00	22.57 -0.70 0.00	25.59 -0.77 0.00	27.46 -0.76 0.00	26.99 -0.69 0.00	29.62 -0.79 0.00	26.70 -0.71 0.00	25.78 -0.77 0.00	21.08 -0.72 0.00	11.25 -0.40 0.00
V_CMP_10_SYNC_DSASP 323788	7.30 0.09 0.00	7.20 0.13 0.00	7.31 0.11 0.00	7.32 0.12 0.00	7.33 0.12 0.00	8.18 0.14 0.00	9.45 0.19 0.00	12.21 0.34 0.00	15.20 0.33 0.00	15.77 0.41 0.00	19.21 0.41 0.00	19.79 0.33 0.00	20.68 0.32 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.72 0.37 0.00	28.73 0.51 0.00	28.34 0.66 0.00	31.11 0.70 0.00	27.99 0.58 0.00	26.76 0.21 0.00	21.54 -0.26 0.00	11.41 -0.23 0.00
V_E_10_SYNC_DSASP 323830	11.97 0.53 -4.24	11.42 0.47 -3.88	11.00 0.48 -3.33	10.53 0.52 -2.81	10.83 0.55 -3.07	12.38 0.68 -3.65	15.19 0.82 -5.11	17.76 0.88 -5.01	18.71 0.83 -3.00	17.80 0.80 -1.65	20.79 1.19 -0.80	21.30 1.30 -0.53	22.02 1.42 -0.24	23.37 1.54 -0.15	23.38 1.55 -0.38	25.09 1.79 -0.03	28.69 2.29 -0.05	31.77 2.77 -0.78	32.34 2.82 -1.84	34.96 3.41 -1.14	32.20 2.99 -1.80	30.24 2.47 -1.22	24.41 2.09 -0.51	15.92 1.15 -3.12
V_F_30_NSYNC___DSASP 323816	24.72 0.42 -17.09	23.10 0.38 -15.64	21.02 0.40 -13.41	18.95 0.40 -11.35	19.98 0.41 -12.36	23.24 0.47 -14.72	30.42 0.55 -20.62	32.74 0.66 -20.21	27.80 0.86 -12.07	23.74 0.81 -7.58	23.43 0.94 -3.69	22.88 0.99 -2.43	22.45 1.00 -1.10	23.55 1.19 -0.68	24.40 1.20 -1.75	24.74 1.33 -0.16	27.96 1.40 -0.21	33.34 1.52 -3.60	37.65 1.52 -8.45	44.97 1.73 -12.82	49.25 1.56 -20.28	33.67 1.51 -5.61	25.40 1.24 -2.36	26.57 0.57 -14.36
V_F_30_SYNC_DSASP 323786	24.30 0.35 -16.74	22.72 0.33 -15.32	20.68 0.34 -13.14	18.66 0.34 -11.12	19.66 0.34 -12.11	22.86 0.39 -14.42	29.89 0.43 -20.20	32.19 0.52 -19.80	27.41 0.71 -11.82	23.47 0.69 -7.42	23.24 0.83 -3.61	22.72 0.88 -2.38	22.35 0.92 -1.08	23.43 1.08 -0.66	24.26 1.09 -1.71	24.62 1.21 -0.15	27.98 1.42 -0.21	33.24 1.49 -3.52	37.42 1.47 -8.28	42.08 1.64 -10.03	44.75 1.48 -15.86	33.53 1.49 -5.50	25.35 1.24 -2.31	26.30 0.59 -14.06
V_XM_10_SYNC_DSASP 323789	7.30 0.09 0.00	7.20 0.13 0.00	7.31 0.11 0.00	7.32 0.12 0.00	7.33 0.12 0.00	8.18 0.14 0.00	9.45 0.19 0.00	12.21 0.34 0.00	15.20 0.33 0.00	15.77 0.41 0.00	19.21 0.41 0.00	19.79 0.33 0.00	20.68 0.32 0.00	21.96 0.28 0.00	21.69 0.24 0.00	23.52 0.26 0.00	26.72 0.37 0.00	28.73 0.51 0.00	28.34 0.66 0.00	31.11 0.70 0.00	27.99 0.58 0.00	26.76 0.21 0.00	21.54 -0.26 0.00	11.41 -0.23 0.00
W.NYACK_69_KV_BK 521_REV_LBMP_G 345027	20.40 0.41 -12.79	19.18 0.40 -11.70	17.63 0.40 -10.03	16.09 0.40 -8.49	16.86 0.40 -9.25	19.51 0.45 -11.01	25.20 0.52 -15.43	27.65 0.66 -15.12	24.84 0.94 -9.03	22.02 1.00 -5.67	22.78 1.22 -2.76	22.56 1.28 -1.82	22.52 1.34 -0.83	23.68 1.50 -0.51	24.26 1.50 -1.31	25.01 1.63 -0.12	28.28 1.77 -0.16	32.80 1.89 -2.69	35.83 1.83 -6.32	36.41 1.92 -4.08	35.59 1.73 -6.45	32.44 1.70 -4.20	24.87 1.31 -1.76	23.07 0.69 -10.74



W49TH_ST_138_KV_38M43_REV_LBMP_J 345008	20.95 0.47 -13.27	19.68 0.46 -12.15	18.08 0.46 -10.42	16.48 0.46 -8.82	17.27 0.46 -9.60	19.99 0.51 -11.43	25.87 0.60 -16.02	28.34 0.77 -15.69	25.32 1.07 -9.38	22.39 1.15 -5.89	23.06 1.39 -2.86	22.83 1.48 -1.89	22.74 1.53 -0.86	23.92 1.71 -0.53	24.49 1.67 -1.36	25.18 1.79 -0.12	28.47 1.95 -0.16	33.10 2.09 -2.79	36.26 2.02 -6.56	36.77 2.13 -4.23	36.02 1.92 -6.69	32.82 1.91 -4.36	25.07 1.44 -1.83	23.58 0.79 -11.15
W50THST__13_KV_LOAD 356117	20.98 0.50 -13.27	19.71 0.49 -12.15	18.11 0.49 -10.42	16.50 0.49 -8.82	17.30 0.49 -9.60	20.02 0.54 -11.43	25.91 0.65 -16.02	28.41 0.84 -15.69	25.41 1.16 -9.38	22.47 1.23 -5.89	23.17 1.50 -2.86	22.94 1.60 -1.89	22.84 1.63 -0.86	24.05 1.84 -0.53	24.61 1.80 -1.36	25.29 1.91 -0.12	28.60 2.08 -0.16	33.24 2.23 -2.79	36.40 2.16 -6.56	36.93 2.28 -4.23	36.13 2.03 -6.69	32.95 2.04 -4.36	25.16 1.53 -1.83	23.63 0.84 -11.15
WADING RIVER_IC_1 23522	22.80 0.45 -15.15	20.40 0.49 -12.84	18.10 0.48 -10.42	18.79 0.49 -11.10	17.40 0.51 -9.68	20.21 0.55 -11.62	25.84 0.56 -16.02	28.22 0.65 -15.70	25.14 0.89 -9.38	24.89 1.03 -8.51	25.32 1.03 -5.48	25.49 1.19 -4.84	25.78 1.18 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.09 1.58 -5.24	34.28 1.87 -6.05	42.02 1.97 -11.82	45.24 1.91 -15.65	41.06 2.10 -8.55	42.00 1.81 -12.78	34.36 1.81 -6.01	28.70 1.35 -5.54	24.47 0.71 -12.12
WADING RIVER_IC_2 23547	22.80 0.45 -15.15	20.40 0.49 -12.84	18.10 0.48 -10.42	18.79 0.49 -11.10	17.40 0.51 -9.68	20.21 0.55 -11.62	25.84 0.56 -16.02	28.22 0.65 -15.70	25.14 0.89 -9.38	24.89 1.03 -8.51	25.32 1.03 -5.48	25.49 1.19 -4.84	25.78 1.18 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.09 1.58 -5.24	34.28 1.87 -6.05	42.02 1.97 -11.82	45.24 1.91 -15.65	41.06 2.10 -8.55	42.00 1.81 -12.78	34.36 1.81 -6.01	28.70 1.35 -5.54	24.47 0.71 -12.12
WADING RIVER_IC_3 23601	22.80 0.45 -15.15	20.40 0.49 -12.84	18.10 0.48 -10.42	18.79 0.49 -11.10	17.40 0.51 -9.68	20.21 0.55 -11.62	25.84 0.56 -16.02	28.22 0.65 -15.70	25.14 0.89 -9.38	24.89 1.03 -8.51	25.32 1.03 -5.48	25.49 1.19 -4.84	25.78 1.18 -4.25	26.39 1.49 -3.21	27.77 1.48 -4.84	30.09 1.58 -5.24	34.28 1.87 -6.05	42.02 1.97 -11.82	45.24 1.91 -15.65	41.06 2.10 -8.55	42.00 1.81 -12.78	34.36 1.81 -6.01	28.70 1.35 -5.54	24.47 0.71 -12.12
WALDENNY_12_KV_BK2 80841	9.83 0.12 -2.50	9.41 0.05 -2.29	9.26 0.09 -1.96	8.98 0.12 -1.66	9.18 0.16 -1.81	10.33 0.12 -2.16	12.30 0.03 -3.02	14.55 -0.28 -2.96	16.24 -0.40 -1.77	15.99 -0.45 -1.08	18.65 -0.68 -0.52	19.15 -0.66 -0.35	19.86 -0.65 -0.16	21.43 -0.35 -0.10	21.47 -0.24 -0.25	23.12 -0.16 -0.02	25.94 -0.45 -0.03	28.08 -0.65 -0.51	28.10 -0.78 -1.20	30.63 -0.49 -0.70	28.19 -0.33 -1.11	26.97 -0.37 -0.80	22.18 0.04 -0.33	13.86 0.19 -2.03
WALDEN__HYDRO 24148	20.41 0.39 -12.82	19.18 0.38 -11.73	17.63 0.37 -10.06	16.08 0.37 -8.51	16.85 0.37 -9.27	19.50 0.42 -11.04	25.19 0.48 -15.46	27.61 0.59 -15.15	24.77 0.85 -9.05	21.91 0.87 -5.68	22.62 1.05 -2.77	22.41 1.13 -1.82	22.34 1.16 -0.83	23.51 1.32 -0.51	24.07 1.31 -1.31	24.85 1.47 -0.12	28.09 1.58 -0.16	32.70 1.78 -2.70	35.76 1.74 -6.33	36.31 1.76 -4.13	35.59 1.64 -6.54	32.35 1.59 -4.21	24.83 1.26 -1.77	23.05 0.64 -10.76
WARRENSBURG____ 23737	24.85 0.49 -17.16	23.21 0.44 -15.70	21.12 0.46 -13.46	19.04 0.45 -11.39	20.09 0.48 -12.41	23.37 0.55 -14.78	30.61 0.66 -20.70	32.95 0.80 -20.28	28.02 1.04 -12.11	23.92 0.97 -7.60	23.63 1.13 -3.70	23.11 1.21 -2.44	22.54 1.08 -1.11	23.66 1.30 -0.68	24.52 1.31 -1.76	24.77 1.35 -0.16	27.62 1.06 -0.21	32.96 1.13 -3.61	37.32 1.16 -8.48	44.82 1.34 -13.07	49.28 1.20 -20.66	33.27 1.09 -5.63	25.15 0.98 -2.36	26.42 0.37 -14.41
WATERSIDE____6 8 9 23538	20.98 0.49 -13.28	19.71 0.48 -12.16	18.11 0.48 -10.42	16.50 0.48 -8.82	17.30 0.48 -9.61	20.00 0.52 -11.43	25.88 0.61 -16.02	28.36 0.80 -15.70	25.35 1.10 -9.38	22.41 1.17 -5.89	23.09 1.43 -2.86	22.87 1.52 -1.89	22.78 1.57 -0.86	26.84 1.76 -3.40	25.62 1.72 -2.45	25.23 1.84 -0.13	28.53 2.00 -0.17	35.88 2.12 -5.54	37.04 2.08 -7.29	36.83 2.19 -4.23	36.05 1.95 -6.69	32.87 1.96 -4.36	25.11 1.48 -1.83	23.62 0.83 -11.16
WATKINRD_115KV_LN8_ILLION 55919	7.26 0.05 0.00	7.11 0.04 0.00	7.24 0.04 0.00	7.24 0.04 0.00	7.25 0.04 0.00	8.10 0.06 0.00	9.33 0.07 0.00	11.94 0.07 0.00	14.96 0.09 0.00	15.44 0.09 0.00	18.93 0.13 0.00	19.58 0.12 0.00	20.48 0.12 0.00	21.81 0.13 0.00	21.58 0.13 0.00	23.40 0.14 0.00	26.54 0.18 0.00	28.45 0.23 0.00	27.90 0.22 0.00	30.66 0.24 0.00	27.60 0.19 0.00	26.71 0.16 0.00	22.02 0.22 0.00	11.75 0.10 0.00
WATSON____69_KV_BK 1 55734	22.97 0.61 -15.15	20.52 0.61 -12.84	18.23 0.61 -10.42	18.92 0.62 -11.10	17.52 0.63 -9.68	20.35 0.69 -11.62	26.05 0.78 -16.02	28.54 0.97 -15.70	25.54 1.29 -9.38	25.26 1.40 -8.51	25.86 1.58 -5.48	26.00 1.69 -4.84	26.31 1.71 -4.25	26.99 2.10 -3.21	28.35 2.06 -4.84	30.74 2.23 -5.24	34.99 2.58 -6.05	42.78 2.74 -11.82	46.01 2.68 -15.65	41.91 2.95 -8.55	42.80 2.60 -12.78	35.11 2.55 -6.01	29.24 1.90 -5.54	24.77 1.01 -12.12
WDELAWARE__HYD 323627	19.37 0.32 -11.84	18.22 0.32 -10.83	16.79 0.30 -9.29	15.36 0.30 -7.86	16.07 0.30 -8.56	18.58 0.34 -10.20	23.92 0.39 -14.28	26.34 0.48 -14.00	23.95 0.71 -8.36	21.34 0.74 -5.25	22.24 0.88 -2.56	22.10 0.95 -1.68	22.09 0.98 -0.76	23.28 1.13 -0.47	23.27 0.60 -1.21	24.07 0.70 -0.11	27.21 0.71 -0.15	31.59 0.88 -2.49	34.39 0.86 -5.85	35.16 0.76 -3.99	35.11 1.40 -6.30	31.74 1.30 -3.89	24.48 1.05 -1.63	22.11 0.52 -9.95
WEST BABYLON__IC 23714	22.96 0.61 -15.15	20.51 0.60 -12.84	18.22 0.60 -10.42	18.91 0.61 -11.10	17.50 0.61 -9.68	20.35 0.68 -11.62	26.05 0.78 -16.02	28.54 0.97 -15.70	25.54 1.29 -9.38	25.26 1.40 -8.51	25.86 1.58 -5.48	26.02 1.71 -4.84	26.33 1.73 -4.25	26.99 2.10 -3.21	28.35 2.06 -4.84	30.74 2.23 -5.24	34.89 2.48 -6.05	42.67 2.62 -11.82	45.90 2.57 -15.65	41.79 2.83 -8.55	42.72 2.52 -12.78	35.05 2.50 -6.01	29.24 1.90 -5.54	24.78 1.02 -12.12
WEST CANADA__HYD 24049	7.23 0.02 0.00	7.09 0.02 0.00	7.22 0.02 0.00	7.22 0.02 0.00	7.23 0.02 0.00	8.08 0.03 0.00	9.29 0.04 0.00	11.89 0.02 0.00	14.90 0.03 0.00	15.38 0.03 0.00	18.84 0.04 0.00	19.52 0.06 0.00	20.41 0.06 0.00	21.77 0.09 0.00	21.54 0.09 0.00	23.36 0.09 0.00	26.46 0.11 0.00	28.33 0.11 0.00	27.79 0.11 0.00	30.54 0.12 0.00	27.52 0.11 0.00	26.65 0.11 0.00	21.91 0.11 0.00	11.70 0.06 0.00
WESTERN_NY_WIND 24143	9.62 0.14 -2.27	9.21 0.06 -2.08	9.08 0.10 -1.78	8.84 0.13 -1.51	9.02 0.17 -1.64	10.12 0.11 -1.96	11.99 -0.01 -2.74	14.18 -0.38 -2.69	15.93 -0.55 -1.61	15.69 -0.64 -0.98	18.45 -0.83 -0.48	18.82 -0.95 -0.31	19.68 -0.81 -0.14	21.07 -0.69 -0.09	21.10 -0.58 -0.23	22.66 -0.63 -0.02	25.54 -0.84 -0.03	27.67 -1.01 -0.47	27.67 -1.11 -1.09	30.16 -0.88 -0.63	27.66 -0.74 -0.99	26.77 -0.51 -0.73	22.04 -0.07 -0.30	13.65 0.15 -1.85



WESTOVER___LESR 323668	11.82 0.15 -4.46	11.27 0.12 -4.08	10.83 0.14 -3.50	10.30 0.14 -2.96	10.59 0.16 -3.22	12.06 0.18 -3.84	14.81 0.19 -5.38	17.27 0.13 -5.27	18.16 0.13 -3.15	17.39 0.14 -1.90	19.91 0.19 -0.92	20.28 0.21 -0.61	20.87 0.24 -0.28	22.22 0.37 -0.17	22.30 0.41 -0.44	23.86 0.56 -0.04	26.93 0.53 -0.05	29.66 0.54 -0.90	30.26 0.47 -2.11	32.41 0.67 -1.33	30.14 0.63 -2.10	28.48 0.53 -1.40	22.91 0.52 -0.59	15.58 0.35 -3.59
WETHRSFD_WT_PWR 323626	10.13 0.09 -2.84	9.70 0.03 -2.60	9.49 0.06 -2.23	9.16 0.08 -1.89	9.37 0.11 -2.05	10.57 0.08 -2.45	12.69 0.01 -3.43	14.95 -0.27 -3.36	16.50 -0.37 -2.00	16.16 -0.41 -1.22	18.87 -0.53 -0.59	19.27 -0.58 -0.39	20.06 -0.47 -0.18	21.49 -0.30 -0.11	21.52 -0.21 -0.28	23.17 -0.12 -0.02	26.21 -0.18 -0.03	28.46 -0.34 -0.58	28.62 -0.41 -1.36	31.07 -0.15 -0.81	28.63 -0.05 -1.28	27.33 -0.11 -0.89	22.31 0.13 -0.37	14.14 0.22 -2.28
WHAVSTOR_138KV_BK127 55557	20.40 0.39 -12.80	19.17 0.38 -11.72	17.63 0.38 -10.05	16.08 0.38 -8.50	16.85 0.38 -9.26	19.50 0.43 -11.03	25.20 0.50 -15.45	27.63 0.63 -15.14	24.79 0.88 -9.04	21.97 0.94 -5.68	22.71 1.15 -2.76	22.51 1.23 -1.82	22.44 1.26 -0.83	23.62 1.43 -0.51	24.18 1.42 -1.31	24.92 1.54 -0.12	28.17 1.66 -0.16	32.69 1.78 -2.69	35.72 1.72 -6.33	36.33 1.82 -4.09	35.52 1.64 -6.46	32.37 1.62 -4.20	24.81 1.24 -1.76	23.06 0.66 -10.75
WHAVSTOR_138_KV_BK127_REV_LBMP_G 345015	20.40 0.39 -12.80	19.17 0.38 -11.72	17.63 0.38 -10.05	16.08 0.38 -8.50	16.85 0.38 -9.26	19.50 0.43 -11.03	25.20 0.50 -15.45	27.63 0.63 -15.14	24.79 0.88 -9.04	21.97 0.94 -5.68	22.71 1.15 -2.76	22.51 1.23 -1.82	22.44 1.26 -0.83	23.62 1.43 -0.51	24.18 1.42 -1.31	24.92 1.54 -0.12	28.17 1.66 -0.16	32.69 1.78 -2.69	35.72 1.72 -6.33	36.33 1.82 -4.09	35.52 1.64 -6.46	32.37 1.62 -4.20	24.81 1.24 -1.76	23.06 0.66 -10.75
WHITEHAL_115KV_TB1 80871	24.94 0.61 -17.13	23.28 0.53 -15.68	21.20 0.56 -13.44	19.12 0.54 -11.38	20.18 0.58 -12.39	23.48 0.68 -14.76	30.74 0.82 -20.67	33.12 1.00 -20.25	28.24 1.28 -12.09	24.10 1.15 -7.59	23.81 1.32 -3.69	23.34 1.44 -2.43	22.82 1.36 -1.11	24.01 1.65 -0.68	24.88 1.67 -1.75	25.21 1.79 -0.16	28.28 1.71 -0.21	33.72 1.89 -3.60	38.06 1.91 -8.47	45.58 2.22 -12.94	49.90 2.03 -20.46	33.92 1.75 -5.63	25.62 1.46 -2.36	26.62 0.59 -14.39
WHITEPLN_13_KV_LOAD 356215	20.94 0.48 -13.25	19.68 0.48 -12.12	18.06 0.47 -10.40	16.46 0.46 -8.80	17.25 0.46 -9.58	20.00 0.54 -11.41	25.86 0.63 -15.98	28.34 0.81 -15.66	25.30 1.07 -9.36	22.36 1.14 -5.87	23.05 1.39 -2.86	22.82 1.48 -1.88	22.74 1.53 -0.86	23.83 1.63 -0.53	24.42 1.61 -1.36	25.15 1.77 -0.12	28.44 1.92 -0.16	33.07 2.06 -2.79	36.16 1.94 -6.55	36.74 2.10 -4.22	35.98 1.89 -6.68	32.75 1.86 -4.35	25.04 1.42 -1.83	23.52 0.76 -11.13
WM_FLOYD_69_KV_BK2 356380	22.86 0.50 -15.15	20.44 0.53 -12.84	18.15 0.53 -10.42	18.83 0.53 -11.10	17.44 0.55 -9.68	20.27 0.60 -11.62	25.91 0.64 -16.02	28.34 0.77 -15.70	25.28 1.03 -9.38	25.01 1.15 -8.51	25.52 1.24 -5.48	25.67 1.36 -4.84	25.96 1.36 -4.25	26.63 1.73 -3.21	27.99 1.69 -4.84	30.34 1.84 -5.24	34.54 2.13 -6.05	42.30 2.26 -11.82	45.54 2.21 -15.65	41.36 2.40 -8.55	42.28 2.08 -12.78	34.65 2.10 -6.01	28.87 1.53 -5.54	24.58 0.83 -12.12
WOODARD__115KV_TB2 355635	8.60 -0.05 -1.44	8.32 -0.07 -1.32	8.26 -0.06 -1.13	8.10 -0.06 -0.96	8.20 -0.05 -1.04	9.25 -0.04 -1.24	10.93 -0.06 -1.74	13.44 -0.13 -1.70	15.70 -0.19 -1.02	15.76 -0.21 -0.62	18.88 -0.23 -0.30	19.45 -0.21 -0.20	20.22 -0.22 -0.09	21.54 -0.20 -0.06	21.43 -0.17 -0.14	23.11 -0.16 -0.01	26.16 -0.21 -0.02	28.26 -0.25 -0.29	28.07 -0.30 -0.69	30.46 -0.30 -0.35	27.72 -0.25 -0.56	26.74 -0.27 -0.46	21.86 -0.13 -0.19	12.83 0.01 -1.18
YORK___WARBASSE 23770	21.00 0.51 -13.28	19.72 0.50 -12.16	18.11 0.49 -10.43	16.51 0.49 -8.82	17.31 0.49 -9.61	20.00 0.52 -11.43	25.89 0.62 -16.02	28.37 0.81 -15.70	25.36 1.12 -9.38	22.42 1.18 -5.89	23.13 1.47 -2.86	22.92 1.58 -1.89	22.85 1.63 -0.86	27.36 1.82 -3.86	25.88 1.80 -2.62	25.32 1.93 -0.13	28.61 2.08 -0.17	36.45 2.26 -5.98	37.30 2.21 -7.40	36.99 2.34 -4.23	36.18 2.08 -6.69	33.00 2.10 -4.36	25.20 1.57 -1.83	23.67 0.87 -11.16