

# Day Ahead Market Generator LBMP

--- LBMP \$

--- Marginal Cost of Losses

--- Marginal Cost of Congestion

## Generator Data

09/17/2025

Name	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
PTID	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT	EDT
59TH STREET_GT_1	35.81	31.46	31.28	29.73	30.60	33.04	43.35	48.05	45.46	42.68	40.72	41.04	43.13	44.08	45.36	48.76	52.29	57.21	64.52	62.10	52.24	46.82	41.40	37.05
24138	1.75	1.49	1.37	1.31	1.46	1.56	2.49	2.95	3.18	3.14	3.24	3.42	3.47	3.34	3.25	3.28	3.31	3.22	3.27	3.09	2.61	2.43	2.41	1.91
	-0.42	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
74TH STREET_GT_1	35.84	31.49	31.34	29.76	30.63	33.07	43.35	48.05	45.42	42.68	40.72	41.04	43.13	44.04	45.36	48.72	52.25	57.21	64.46	62.04	52.24	46.82	41.44	37.08
24260	1.78	1.52	1.43	1.34	1.48	1.60	2.49	2.95	3.14	3.14	3.24	3.42	3.47	3.30	3.25	3.23	3.27	3.22	3.20	3.03	2.61	2.43	2.45	1.95
	-0.42	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
74TH STREET_GT_2	35.84	31.49	31.34	29.76	30.63	33.07	43.35	48.05	45.42	42.68	40.72	41.04	43.13	44.04	45.36	48.72	52.25	57.21	64.46	62.04	52.24	46.82	41.44	37.08
24261	1.78	1.52	1.43	1.34	1.48	1.60	2.49	2.95	3.14	3.14	3.24	3.42	3.47	3.30	3.25	3.23	3.27	3.22	3.20	3.03	2.61	2.43	2.45	1.95
	-0.42	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
ADK HUDSON___FALLS	34.75	30.87	31.00	29.70	30.36	32.62	41.22	44.83	40.84	36.40	35.79	35.69	37.19	38.63	39.82	43.37	47.95	55.50	62.51	60.50	50.97	44.36	39.42	35.72
24011	1.55	1.25	1.43	1.28	1.28	1.50	1.77	1.81	0.62	0.42	-0.26	-0.33	-0.35	-0.20	-0.21	0.27	0.86	2.09	2.84	2.80	2.26	1.87	1.80	1.36
	0.43	0.18	0.17	0.00	0.03	0.18	0.72	1.05	1.04	1.80	0.73	0.80	1.07	0.97	1.05	1.20	0.96	0.29	0.80	0.66	0.47	0.96	0.69	0.39
ADK RESOURCE___RCVRY	34.89	30.99	31.00	29.82	30.45	32.75	41.38	45.02	40.89	36.42	35.72	35.59	37.13	38.56	39.88	43.43	48.20	55.88	63.00	60.97	51.36	44.63	39.62	35.82
23798	1.68	1.37	1.43	1.39	1.37	1.63	1.93	1.99	0.66	0.42	-0.33	-0.44	-0.42	-0.28	-0.16	0.31	1.11	2.47	3.32	3.27	2.65	2.13	1.99	1.46
	0.43	0.18	0.17	0.00	0.03	0.18	0.71	1.04	1.03	1.79	0.72	0.80	1.06	0.96	1.04	1.19	0.95	0.29	0.80	0.65	0.46	0.95	0.68	0.39
ADK S GLENS___FALLS	34.75	30.87	31.00	29.70	30.36	32.62	41.22	44.83	40.84	36.40	35.79	35.69	37.19	38.63	39.82	43.37	47.95	55.50	62.51	60.50	50.97	44.36	39.42	35.72
24028	1.55	1.25	1.43	1.28	1.28	1.50	1.77	1.81	0.62	0.42	-0.26	-0.33	-0.35	-0.20	-0.21	0.27	0.86	2.09	2.84	2.80	2.26	1.87	1.80	1.36
	0.43	0.18	0.17	0.00	0.03	0.18	0.72	1.05	1.04	1.80	0.73	0.80	1.07	0.97	1.05	1.20	0.96	0.29	0.80	0.66	0.47	0.96	0.69	0.39
ADK_NYS___DAM	34.04	30.55	30.48	29.53	30.13	32.18	40.59	44.08	41.14	35.93	36.72	36.61	37.83	39.19	40.39	43.42	48.05	55.28	61.08	59.19	50.01	43.13	38.44	35.18
23527	1.31	1.13	1.10	1.11	1.08	1.25	1.93	2.20	2.06	1.93	1.47	1.47	1.47	1.43	1.52	1.64	2.02	2.20	2.30	2.22	1.82	1.69	1.57	1.25
	0.91	0.38	0.36	0.00	0.06	0.37	1.50	2.20	2.19	3.79	1.53	1.69	2.25	2.03	2.21	2.53	2.01	0.62	1.69	1.39	0.98	2.01	1.45	0.83
AIR_PRODUCTS___DRP	33.44	29.79	29.80	28.62	29.27	31.37	39.80	43.58	40.76	36.70	36.20	36.28	37.80	38.97	40.16	43.31	47.24	53.34	59.68	57.68	48.71	42.75	37.92	34.49
24190	0.10	0.12	0.18	0.20	0.17	0.19	0.12	0.22	0.21	0.15	-0.07	0.00	-0.08	-0.16	-0.21	-0.18	-0.14	-0.16	-0.24	-0.23	-0.15	-0.04	0.08	0.00
	0.30	0.12	0.12	0.00	0.02	0.12	0.49	0.72	0.71	1.23	0.50	0.55	0.73	0.66	0.72	0.82	0.65	0.20	0.55	0.45	0.32	0.66	0.47	0.27
AKWESSNE_115KV_BK	22.19	17.45	27.26	24.72	25.57	25.55	29.92	34.80	31.76	27.68	35.08	35.14	36.46	35.03	34.94	35.24	39.77	42.21	50.51	51.55	41.02	33.97	27.80	27.89
355683	-0.13	-0.12	-0.12	-0.09	-0.09	-0.13	-0.12	-0.09	-0.04	0.04	-0.04	-0.04	-0.08	-0.08	-0.08	-0.09	-0.10	-0.21	-0.30	-0.29	-0.20	-0.13	-0.11	-0.14
	11.32	12.23	2.36	3.62	3.45	5.62	10.13	9.19	9.47	10.14	1.66	1.65	2.07	4.68	6.06	8.98	8.17	11.28	9.66	6.52	7.95	9.35	10.39	6.73
ALBANY_1_SOLAR	34.50	30.66	30.64	29.33	30.03	32.21	41.10	44.96	41.71	37.73	36.72	36.71	38.42	39.36	40.70	44.09	48.11	54.41	61.23	59.25	50.00	44.01	38.89	35.53
323833	1.01	0.92	0.95	0.91	0.93	0.97	1.17	1.23	0.78	0.53	0.18	0.15	0.16	-0.12	-0.04	0.18	0.38	0.81	1.03	1.11	0.98	0.87	0.81	0.90
	0.14	0.06	0.06	0.00	0.01	0.06	0.23	0.34	0.34	0.59	0.24	0.26	0.35	0.32	0.34	0.39	0.31	0.10	0.26	0.22	0.15	0.31	0.22	0.13
ALBANY_2_SOLAR	34.50	30.63	30.61	29.31	30.01	32.18	41.10	44.96	41.71	37.72	36.72	36.71	38.41	39.32	40.70	44.05	48.11	54.41	61.17	59.20	49.95	44.01	38.89	35.49
323834	1.01	0.89	0.92	0.88	0.90	0.94	1.17	1.23	0.78	0.53	0.18	0.15	0.16	-0.16	-0.04	0.13	0.38	0.81	0.96	1.05	0.93	0.87	0.81	0.87
	0.14	0.06	0.06	0.00	0.01	0.06	0.23	0.34	0.34	0.59	0.24	0.26	0.35	0.32	0.34	0.39	0.31	0.10	0.26	0.22	0.15	0.31	0.23	0.13
ALBANY___1	33.44	29.79	29.80	28.62	29.27	31.37	39.80	43.58	40.76	36.70	36.20	36.28	37.80	38.97	40.16	43.31	47.24	53.34	59.68	57.68	48.71	42.75	37.92	34.49
23571	0.10	0.12	0.18	0.20	0.17	0.19	0.12	0.22	0.21	0.15	-0.07	0.00	-0.08	-0.16	-0.21	-0.18	-0.14	-0.16	-0.24	-0.23	-0.15	-0.04	0.08	0.00
	0.30	0.12	0.12	0.00	0.02	0.12	0.49	0.72	0.71	1.23	0.50	0.55	0.73	0.66	0.72	0.82	0.65	0.20	0.55	0.45	0.32	0.66	0.47	0.27



ALBANY___2 23572	33.44 0.10 0.30	29.79 0.12 0.12	29.80 0.18 0.12	28.62 0.20 0.00	29.27 0.17 0.02	31.37 0.19 0.12	39.80 0.12 0.49	43.58 0.22 0.72	40.76 0.21 0.71	36.70 0.15 1.23	36.20 -0.07 0.50	36.28 0.00 0.55	37.80 -0.08 0.73	38.97 -0.16 0.66	40.16 -0.21 0.72	43.31 -0.18 0.82	47.24 -0.14 0.65	53.34 -0.16 0.20	59.68 -0.24 0.55	57.68 -0.23 0.45	48.71 -0.15 0.32	42.75 -0.04 0.66	37.92 0.08 0.47	34.49 0.00 0.27
ALBANY___3 23573	33.44 0.10 0.30	29.79 0.12 0.12	29.80 0.18 0.12	28.62 0.20 0.00	29.27 0.17 0.02	31.37 0.19 0.12	39.80 0.12 0.49	43.58 0.22 0.72	40.76 0.21 0.71	36.70 0.15 1.23	36.20 -0.07 0.50	36.28 0.00 0.55	37.80 -0.08 0.73	38.97 -0.16 0.66	40.16 -0.21 0.72	43.31 -0.18 0.82	47.24 -0.14 0.65	53.34 -0.16 0.20	59.68 -0.24 0.55	57.68 -0.23 0.45	48.71 -0.15 0.32	42.75 -0.04 0.66	37.92 0.08 0.47	34.49 0.00 0.27
ALBANY___4 23574	33.44 0.10 0.30	29.79 0.12 0.12	29.80 0.18 0.12	28.62 0.20 0.00	29.27 0.17 0.02	31.37 0.19 0.12	39.80 0.12 0.49	43.58 0.22 0.72	40.76 0.21 0.71	36.70 0.15 1.23	36.20 -0.07 0.50	36.28 0.00 0.55	37.80 -0.08 0.73	38.97 -0.16 0.66	40.16 -0.21 0.72	43.31 -0.18 0.82	47.24 -0.14 0.65	53.34 -0.16 0.20	59.68 -0.24 0.55	57.68 -0.23 0.45	48.71 -0.15 0.32	42.75 -0.04 0.66	37.92 0.08 0.47	34.49 0.00 0.27
ALBANY___LFGE 323615	33.72 0.41 0.33	30.05 0.39 0.14	29.97 0.36 0.13	28.85 0.43 0.00	29.50 0.41 0.02	31.60 0.44 0.13	40.15 0.52 0.54	43.95 0.66 0.79	41.02 0.54 0.78	36.88 0.46 1.36	36.41 0.18 0.55	36.37 0.15 0.61	37.96 0.16 0.81	39.07 0.00 0.73	40.33 0.04 0.79	43.54 0.13 0.91	47.56 0.24 0.72	53.86 0.38 0.22	60.23 0.37 0.60	58.22 0.35 0.50	49.12 0.30 0.35	43.04 0.31 0.72	38.14 0.34 0.52	34.73 0.28 0.30
ALCOA_PA_115KV_PL-6C 55860	141.78 0.03 -108.11	146.66 0.03 -116.83	52.34 0.03 -22.57	63.04 0.06 -34.56	62.12 0.03 -32.98	85.05 0.03 -53.72	137.02 0.08 -96.77	131.97 0.13 -87.76	131.87 0.17 -90.44	134.85 0.19 -96.87	52.79 0.15 -15.87	52.72 0.15 -15.74	58.55 0.12 -19.82	84.61 0.08 -44.73	99.09 0.08 -57.93	130.26 0.13 -85.82	126.29 0.14 -78.10	161.55 0.11 -107.75	152.77 0.06 -92.24	120.67 0.00 -62.31	125.21 0.05 -75.99	132.91 0.13 -89.33	137.68 0.08 -99.29	99.07 0.03 -64.28
ALCOA_RYNLDS___DRP 24188	141.78 0.03 -108.11	146.66 0.03 -116.83	52.34 0.03 -22.57	63.04 0.06 -34.56	62.12 0.03 -32.98	85.05 0.03 -53.72	137.02 0.08 -96.77	131.97 0.13 -87.76	131.87 0.17 -90.44	134.85 0.19 -96.87	52.79 0.15 -15.87	52.72 0.15 -15.74	58.55 0.12 -19.82	84.61 0.08 -44.73	99.09 0.08 -57.93	130.26 0.13 -85.82	126.29 0.14 -78.10	161.55 0.11 -107.75	152.77 0.06 -92.24	120.67 0.00 -62.31	125.21 0.05 -75.99	132.91 0.13 -89.33	137.68 0.08 -99.29	99.07 0.03 -64.28
ALCOA___DSASP 323711	141.78 0.03 -108.11	146.66 0.03 -116.83	52.34 0.03 -22.57	63.04 0.06 -34.56	62.15 0.06 -32.98	85.05 0.03 -53.72	136.94 0.00 -96.77	131.84 0.00 -87.76	131.75 0.04 -90.44	134.77 0.11 -96.87	52.71 0.07 -15.87	52.64 0.07 -15.74	58.43 0.00 -19.82	84.53 0.00 -44.73	99.01 0.00 -57.93	130.08 -0.04 -85.82	126.09 -0.05 -78.10	161.34 -0.11 -107.75	152.59 -0.12 -92.24	120.50 -0.17 -62.31	125.07 -0.10 -75.99	132.78 0.00 -89.33	137.60 0.00 -99.29	99.07 0.03 -64.28
ALLEGHENY___COGEN 23514	35.39 1.75 0.00	31.43 1.64 0.00	31.14 1.40 0.00	29.76 1.34 0.00	30.33 1.22 0.00	33.02 1.72 0.00	42.84 1.81 -0.86	46.68 1.54 -1.06	43.15 0.82 -1.06	39.36 0.19 -1.38	38.64 0.51 -1.35	38.19 0.07 -1.29	40.07 0.23 -1.23	41.96 1.15 -1.01	43.35 1.23 -1.03	47.06 1.51 -1.24	52.35 2.16 -2.15	59.72 3.65 -2.36	69.26 5.62 -3.17	66.41 5.07 -2.98	55.28 4.13 -1.98	48.54 3.09 -2.00	41.21 2.03 -0.87	38.74 2.43 -1.56
ALTAMONT_115KV_TB 2 55880	34.02 0.57 0.19	30.23 0.51 0.08	30.20 0.54 0.07	28.96 0.54 0.00	29.62 0.52 0.01	31.79 0.56 0.08	40.58 0.72 0.31	44.42 0.79 0.45	41.52 0.70 0.45	37.65 0.64 0.78	36.98 0.51 0.31	37.03 0.55 0.35	38.69 0.54 0.46	39.85 0.48 0.42	41.12 0.49 0.45	44.32 0.53 0.52	48.21 0.58 0.41	54.22 0.64 0.13	60.79 0.67 0.35	58.72 0.64 0.28	49.56 0.59 0.20	43.65 0.61 0.41	38.67 0.65 0.30	35.07 0.49 0.17
ALTONA_WT_PWR 323606	40.49 1.21 -5.65	37.03 1.13 -6.10	32.05 1.13 -1.18	31.37 1.14 -1.81	32.03 1.19 -1.72	35.39 1.28 -2.81	45.98 0.76 -5.05	49.05 0.40 -4.58	46.53 0.54 -4.72	44.06 1.21 -5.06	38.74 1.14 -0.83	38.72 1.07 -0.82	40.69 1.04 -1.04	43.24 1.11 -2.34	45.26 1.15 -3.03	49.37 0.57 -4.48	52.75 0.62 -4.08	59.97 0.65 -5.63	65.89 0.60 -4.82	61.97 0.35 -3.25	53.49 0.35 -3.97	48.46 0.35 -4.67	44.26 0.77 -5.19	39.40 1.29 -3.36
AMERICAN_REF_FUEL 24010	33.84 0.20 0.00	30.16 0.36 0.00	29.83 0.09 0.00	28.05 -0.37 0.00	28.88 -0.23 0.00	31.33 0.03 0.00	39.23 -1.69 -0.75	42.49 -2.51 -0.92	39.54 -2.64 -0.92	36.84 -2.15 -1.20	36.81 -1.14 -1.17	36.40 -1.55 -1.12	38.25 -1.43 -1.07	40.32 -0.36 -0.88	41.45 -0.54 -0.90	44.24 -1.15 -1.08	48.81 -1.10 -1.87	55.33 -0.43 -2.06	63.60 0.37 -2.76	60.72 -0.23 -2.60	50.36 -0.54 -1.73	44.63 -0.57 -1.75	37.95 -1.11 -0.76	36.36 0.24 -1.36
ARKWRIGHT___SUMMIT_WT_PWR 323751	34.51 0.87 0.00	30.69 0.89 0.00	30.22 0.47 0.00	28.65 0.23 0.00	29.29 0.18 0.00	32.05 0.75 0.00	41.23 0.28 -0.78	45.03 0.00 -0.96	41.64 -0.58 -0.95	38.81 -0.23 -1.25	38.68 0.70 -1.21	38.43 0.44 -1.16	40.30 0.58 -1.11	42.42 1.71 -0.91	43.62 1.60 -0.93	46.81 1.38 -1.12	51.61 1.63 -1.93	58.47 2.63 -2.14	67.20 3.87 -2.86	64.20 3.15 -2.69	53.23 2.26 -1.79	46.91 1.65 -1.81	39.94 0.84 -0.78	37.90 1.74 -1.41
ARTHUR KILL_GT_1 23520	36.32 2.25 -0.43	31.98 2.00 -0.18	31.79 1.87 -0.17	29.70 1.28 0.00	19.22 1.63 11.52	24.57 1.66 8.39	26.82 2.57 15.91	27.25 3.09 19.91	27.21 3.30 17.35	27.21 3.29 13.87	27.82 3.38 12.34	27.90 3.61 12.54	28.17 3.63 14.07	28.19 3.50 15.10	27.80 3.41 16.69	28.05 3.41 19.67	30.74 3.36 20.67	36.56 3.17 20.31	36.94 3.20 26.73	28.12 2.98 33.22	28.31 2.70 23.57	28.20 2.56 17.81	27.77 2.57 13.11	26.85 2.09 9.99
ARTHUR_KILL_2 23512	36.19 2.12 -0.43	31.86 1.88 -0.18	31.64 1.72 -0.17	29.59 1.17 0.00	19.08 1.48 11.52	24.44 1.53 8.39	26.78 2.53 15.91	27.21 3.04 19.91	27.17 3.26 17.35	27.17 3.25 13.87	27.75 3.31 12.34	27.79 3.50 12.54	28.06 3.51 14.07	28.07 3.38 15.10	27.84 3.45 16.69	28.10 3.46 19.67	30.98 3.61 20.67	36.83 3.44 20.31	37.12 3.38 26.73	28.35 3.21 33.22	28.26 2.65 23.57	28.20 2.56 17.81	27.65 2.45 13.11	26.74 1.98 9.99
ARTHUR_KILL_3 23513	35.47 1.41 -0.42	31.17 1.19 -0.18	30.95 1.04 -0.17	29.41 0.99 0.01	18.72 1.13 11.53	24.15 1.25 8.40	26.37 2.13 15.92	26.71 2.56 19.91	26.71 2.81 17.36	26.67 2.76 13.87	27.26 2.83 12.35	27.30 3.02 12.55	27.55 3.01 14.07	27.55 2.87 15.11	27.30 2.92 16.70	27.56 2.92 19.68	30.35 2.98 20.67	36.22 2.84 20.32	36.51 2.78 26.74	27.76 2.63 33.23	27.76 2.16 23.58	27.76 2.13 17.82	27.26 2.07 13.12	26.32 1.57 10.00



ARTHUR_KILL_COGEN 323718	36.29 2.22 -0.43	31.95 1.97 -0.18	31.73 1.81 -0.17	29.67 1.25 0.00	19.16 1.57 11.52	24.54 1.63 8.39	26.90 2.65 15.91	27.34 3.18 19.91	27.30 3.38 17.35	27.28 3.36 13.87	27.86 3.42 12.34	27.90 3.61 12.54	28.17 3.63 14.07	28.20 3.50 15.10	27.97 3.57 16.69	28.23 3.59 19.67	31.17 3.79 20.67	37.04 3.65 20.31	37.36 3.63 26.73	28.58 3.44 33.22	28.46 2.85 23.57	28.38 2.74 17.81	27.81 2.61 13.11	26.85 2.09 9.99
ASHOKAN____ 23654	36.43 2.79 0.00	32.30 2.50 0.00	32.18 2.44 0.00	30.30 1.88 0.00	31.50 2.39 0.00	33.90 2.60 0.00	43.90 3.74 0.00	48.30 4.23 0.00	44.77 3.51 0.00	40.70 2.91 0.00	39.46 2.68 0.00	39.44 2.62 0.00	41.51 2.90 0.00	42.42 2.63 0.00	43.84 2.75 0.00	47.63 3.32 0.00	51.41 3.36 0.00	57.94 4.24 0.00	65.12 4.66 0.00	63.15 4.79 0.00	53.25 4.08 0.00	46.80 3.35 0.00	41.41 3.10 0.00	37.60 2.85 0.00
ASTORIA_EAST_ENERGY_CC1 323581	35.82 1.75 -0.43	31.44 1.46 -0.18	31.22 1.31 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.76 1.28 -0.17	42.95 2.09 -0.70	47.51 2.42 -1.01	45.08 2.81 -1.01	42.34 2.80 -1.75	40.31 2.83 -0.70	40.66 3.05 -0.78	42.66 3.01 -1.04	43.55 2.83 -0.94	44.94 2.83 -1.02	48.27 2.79 -1.17	51.80 2.83 -0.93	56.61 2.63 -0.28	63.67 2.42 -0.78	61.27 2.27 -0.64	51.54 1.92 -0.45	46.29 1.91 -0.93	41.05 2.07 -0.67	36.88 1.74 -0.38
ASTORIA_EAST_ENERGY_CC2 323582	35.82 1.75 -0.43	31.44 1.46 -0.18	31.22 1.31 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.76 1.28 -0.17	42.95 2.09 -0.70	47.51 2.42 -1.01	45.08 2.81 -1.01	42.34 2.80 -1.75	40.31 2.83 -0.70	40.66 3.05 -0.78	42.66 3.01 -1.04	43.55 2.83 -0.94	44.94 2.83 -1.02	48.27 2.79 -1.17	51.80 2.83 -0.93	56.61 2.63 -0.28	63.67 2.42 -0.78	61.27 2.27 -0.64	51.54 1.92 -0.45	46.29 1.91 -0.93	41.05 2.07 -0.67	36.88 1.74 -0.38
ASTORIA_GT2_1 24094	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT2_2 24095	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT2_3 24096	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT2_4 24097	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT3_1 24098	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT3_2 24099	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT3_3 24100	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT3_4 24101	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT4_1 24102	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT4_2 24103	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT4_3 24104	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38



ASTORIA_GT4_4 24105	35.85 1.78 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.60 1.46 -0.03	32.82 1.35 -0.17	42.87 2.01 -0.70	47.52 2.42 -1.02	44.97 2.68 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.67 3.06 -0.79	42.71 3.05 -1.04	43.56 2.83 -0.94	44.82 2.71 -1.03	48.10 2.61 -1.18	51.48 2.50 -0.93	56.24 2.26 -0.29	63.37 2.12 -0.78	60.99 1.98 -0.64	51.40 1.77 -0.46	46.12 1.74 -0.94	41.02 2.03 -0.67	36.91 1.77 -0.38
ASTORIA_GT_1 23523	35.92 1.85 -0.43	31.53 1.55 -0.18	31.34 1.43 -0.17	29.76 1.34 0.00	30.65 1.51 -0.03	32.88 1.41 -0.17	42.95 2.09 -0.70	47.61 2.51 -1.02	45.05 2.76 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.78 3.13 -1.04	43.68 2.94 -0.94	44.90 2.79 -1.03	48.19 2.70 -1.18	51.62 2.64 -0.93	56.35 2.36 -0.29	63.55 2.30 -0.78	61.11 2.10 -0.64	51.50 1.87 -0.46	46.25 1.87 -0.94	41.09 2.11 -0.67	36.98 1.84 -0.38
ASTORIA_GT_10 24110	35.82 1.75 -0.43	31.47 1.49 -0.18	31.31 1.40 -0.17	29.70 1.28 0.00	30.57 1.43 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.94 3.28 -1.04	43.80 3.06 -0.94	45.07 2.96 -1.03	48.36 2.88 -1.18	51.81 2.83 -0.93	56.56 2.58 -0.29	63.79 2.54 -0.78	61.34 2.33 -0.64	51.70 2.07 -0.46	46.43 2.04 -0.94	41.17 2.18 -0.67	36.95 1.81 -0.38
ASTORIA_GT_11 24225	35.82 1.75 -0.43	31.47 1.49 -0.18	31.31 1.40 -0.17	29.70 1.28 0.00	30.57 1.43 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.94 3.28 -1.04	43.80 3.06 -0.94	45.07 2.96 -1.03	48.36 2.88 -1.18	51.81 2.83 -0.93	56.56 2.58 -0.29	63.79 2.54 -0.78	61.34 2.33 -0.64	51.70 2.07 -0.46	46.43 2.04 -0.94	41.17 2.18 -0.67	36.95 1.81 -0.38
ASTORIA_GT_12 24226	35.82 1.75 -0.43	31.47 1.49 -0.18	31.31 1.40 -0.17	29.70 1.28 0.00	30.57 1.43 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.94 3.28 -1.04	43.80 3.06 -0.94	45.07 2.96 -1.03	48.36 2.88 -1.18	51.81 2.83 -0.93	56.56 2.58 -0.29	63.79 2.54 -0.78	61.34 2.33 -0.64	51.70 2.07 -0.46	46.43 2.04 -0.94	41.17 2.18 -0.67	36.95 1.81 -0.38
ASTORIA_GT_13 24227	35.82 1.75 -0.43	31.47 1.49 -0.18	31.31 1.40 -0.17	29.70 1.28 0.00	30.57 1.43 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.94 3.28 -1.04	43.80 3.06 -0.94	45.07 2.96 -1.03	48.36 2.88 -1.18	51.81 2.83 -0.93	56.56 2.58 -0.29	63.79 2.54 -0.78	61.34 2.33 -0.64	51.70 2.07 -0.46	46.43 2.04 -0.94	41.17 2.18 -0.67	36.95 1.81 -0.38
ASTORIA_GT_5 24106	35.92 1.85 -0.43	31.53 1.55 -0.18	31.34 1.43 -0.17	29.76 1.34 0.00	30.65 1.51 -0.03	32.88 1.41 -0.17	42.95 2.09 -0.70	47.61 2.51 -1.02	45.05 2.76 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.78 3.13 -1.04	43.68 2.94 -0.94	44.90 2.79 -1.03	48.19 2.70 -1.18	51.62 2.64 -0.93	56.35 2.36 -0.29	63.55 2.30 -0.78	61.11 2.10 -0.64	51.50 1.87 -0.46	46.25 1.87 -0.94	41.09 2.11 -0.67	36.98 1.84 -0.38
ASTORIA_GT_7 24107	35.92 1.85 -0.43	31.53 1.55 -0.18	31.34 1.43 -0.17	29.76 1.34 0.00	30.65 1.51 -0.03	32.88 1.41 -0.17	42.95 2.09 -0.70	47.61 2.51 -1.02	45.05 2.76 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.78 3.13 -1.04	43.68 2.94 -0.94	44.90 2.79 -1.03	48.19 2.70 -1.18	51.62 2.64 -0.93	56.35 2.36 -0.29	63.55 2.30 -0.78	61.11 2.10 -0.64	51.50 1.87 -0.46	46.25 1.87 -0.94	41.09 2.11 -0.67	36.98 1.84 -0.38
ASTORIA_GT_8 24108	35.92 1.85 -0.43	31.53 1.55 -0.18	31.34 1.43 -0.17	29.76 1.34 0.00	30.65 1.51 -0.03	32.88 1.41 -0.17	42.95 2.09 -0.70	47.61 2.51 -1.02	45.05 2.76 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.78 3.13 -1.04	43.68 2.94 -0.94	44.90 2.79 -1.03	48.19 2.70 -1.18	51.62 2.64 -0.93	56.35 2.36 -0.29	63.55 2.30 -0.78	61.11 2.10 -0.64	51.50 1.87 -0.46	46.25 1.87 -0.94	41.09 2.11 -0.67	36.98 1.84 -0.38
ASTORIA___2 24149	35.82 1.75 -0.43	31.44 1.46 -0.18	31.26 1.34 -0.17	29.67 1.25 0.00	30.54 1.40 -0.03	32.79 1.31 -0.17	42.95 2.09 -0.70	47.55 2.47 -1.01	45.08 2.81 -1.01	42.34 2.80 -1.75	40.34 2.87 -0.70	40.66 3.05 -0.78	42.70 3.05 -1.04	43.55 2.83 -0.94	44.98 2.87 -1.02	48.27 2.79 -1.17	51.85 2.88 -0.93	56.66 2.68 -0.28	63.72 2.48 -0.78	61.33 2.34 -0.64	51.54 1.92 -0.45	46.34 1.96 -0.93	41.05 2.07 -0.67	36.91 1.77 -0.38
ASTORIA___3 23516	35.78 1.71 -0.43	31.47 1.49 -0.18	31.26 1.34 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.90 3.24 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.54 3.05 -1.18	52.15 3.17 -0.93	56.99 3.01 -0.29	64.15 2.90 -0.78	61.69 2.69 -0.64	51.89 2.26 -0.46	46.60 2.21 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
ASTORIA___4 23517	35.82 1.75 -0.43	31.47 1.49 -0.18	31.31 1.40 -0.17	29.70 1.28 0.00	30.57 1.43 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.94 3.28 -1.04	43.80 3.06 -0.94	45.07 2.96 -1.03	48.36 2.88 -1.18	51.81 2.83 -0.93	56.56 2.58 -0.29	63.79 2.54 -0.78	61.34 2.33 -0.64	51.70 2.07 -0.46	46.43 2.04 -0.94	41.17 2.18 -0.67	36.95 1.81 -0.38
ASTORIA___5 23518	35.78 1.71 -0.43	31.47 1.49 -0.18	31.26 1.34 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.90 3.24 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.59 3.10 -1.18	52.15 3.17 -0.93	56.99 3.01 -0.29	64.15 2.90 -0.78	61.69 2.69 -0.64	51.89 2.26 -0.46	46.60 2.21 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
AST_ENERGY_2_CC3 323677	27.61 1.41 7.44	27.61 1.16 3.35	27.61 1.01 3.14	27.61 0.94 1.75	27.61 1.11 2.61	27.61 0.97 4.66	27.61 1.69 14.24	29.77 2.03 16.33	27.61 2.39 16.05	27.61 2.42 12.60	28.66 2.50 10.62	28.66 2.69 10.85	28.66 2.66 12.61	28.66 2.43 13.56	28.66 2.42 14.85	29.20 2.35 17.46	28.73 2.35 21.67	37.78 2.09 18.01	45.01 1.81 17.27	42.60 1.69 17.45	32.72 1.43 17.88	30.56 1.48 14.37	28.66 1.68 11.34	28.66 1.39 7.49
AST_ENERGY_2_CC4 323678	27.61 1.41 7.44	27.61 1.16 3.35	27.61 1.01 3.14	27.61 0.94 1.75	27.61 1.11 2.61	27.61 0.97 4.66	27.61 1.69 14.24	29.77 2.03 16.33	27.61 2.39 16.05	27.61 2.42 12.60	28.66 2.50 10.62	28.66 2.69 10.85	28.66 2.66 12.61	28.66 2.43 13.56	28.66 2.42 14.85	29.20 2.35 17.46	28.73 2.35 21.67	37.78 2.09 18.01	45.01 1.81 17.27	42.60 1.69 17.45	32.72 1.43 17.88	30.56 1.48 14.37	28.66 1.68 11.34	28.66 1.39 7.49



ATHENS_STG_1 23668	34.74 0.91 -0.20	30.68 0.80 -0.08	30.56 0.74 -0.08	29.16 0.74 0.00	29.91 0.79 -0.01	32.19 0.81 -0.08	41.61 1.12 -0.32	45.78 1.23 -0.47	43.06 1.32 -0.47	39.89 1.29 -0.82	38.31 1.21 -0.33	38.48 1.29 -0.36	40.41 1.31 -0.48	41.39 1.15 -0.44	42.75 1.19 -0.48	46.09 1.24 -0.55	49.77 1.30 -0.43	55.07 1.24 -0.13	61.98 1.15 -0.36	59.77 1.11 -0.30	50.37 0.98 -0.21	44.84 0.95 -0.43	39.58 0.96 -0.31	35.66 0.73 -0.18
ATHENS_STG_2 23670	34.74 0.91 -0.20	30.68 0.80 -0.08	30.56 0.74 -0.08	29.16 0.74 0.00	29.91 0.79 -0.01	32.19 0.81 -0.08	41.61 1.12 -0.32	45.78 1.23 -0.47	43.06 1.32 -0.47	39.89 1.29 -0.82	38.31 1.21 -0.33	38.48 1.29 -0.36	40.41 1.31 -0.48	41.39 1.15 -0.44	42.75 1.19 -0.48	46.09 1.24 -0.55	49.77 1.30 -0.43	55.07 1.24 -0.13	61.98 1.15 -0.36	59.77 1.11 -0.30	50.37 0.98 -0.21	44.84 0.95 -0.43	39.58 0.96 -0.31	35.66 0.73 -0.18
ATHENS_STG_3 23677	34.74 0.91 -0.20	30.68 0.80 -0.08	30.56 0.74 -0.08	29.16 0.74 0.00	29.91 0.79 -0.01	32.19 0.81 -0.08	41.61 1.12 -0.32	45.78 1.23 -0.47	43.06 1.32 -0.47	39.89 1.29 -0.82	38.31 1.21 -0.33	38.48 1.29 -0.36	40.41 1.31 -0.48	41.39 1.15 -0.44	42.75 1.19 -0.48	46.09 1.24 -0.55	49.77 1.30 -0.43	55.07 1.24 -0.13	61.98 1.15 -0.36	59.77 1.11 -0.30	50.37 0.98 -0.21	44.84 0.95 -0.43	39.58 0.96 -0.31	35.66 0.73 -0.18
AUBURN___LFGE 323710	35.47 0.37 -1.46	31.71 0.33 -1.58	30.37 0.33 -0.31	29.12 0.23 -0.47	29.85 0.29 -0.45	32.43 0.41 -0.73	43.56 0.40 -2.99	47.77 0.40 -3.30	44.81 0.25 -3.30	41.86 0.04 -4.03	39.82 0.15 -2.90	39.64 0.04 -2.77	41.44 0.12 -2.71	42.72 0.32 -2.61	44.40 0.49 -2.83	48.50 0.58 -3.61	54.12 0.77 -5.31	60.91 1.18 -6.03	69.52 1.63 -7.42	66.58 1.58 -6.65	55.24 1.18 -4.89	49.26 0.70 -5.12	41.69 0.34 -3.03	39.22 0.56 -3.91
BABYLON_RES_REC 323704	35.67 1.61 -0.42	31.22 1.25 -0.18	30.68 0.77 -0.17	29.14 0.71 0.00	30.07 0.93 -0.03	32.44 0.97 -0.17	42.71 1.85 -0.70	46.76 1.67 -1.01	44.64 2.35 -1.02	42.57 3.02 -1.76	40.68 3.20 -0.71	41.08 3.46 -0.80	42.59 2.93 -1.04	43.40 2.67 -0.94	44.53 2.42 -1.03	47.43 1.95 -1.18	50.99 2.02 -0.93	55.32 1.34 -0.28	62.40 1.15 -0.78	59.99 0.99 -0.64	50.66 1.03 -0.45	45.55 1.17 -0.93	41.51 2.53 -0.67	37.12 1.98 -0.38
BALL_HILL_WT_PWR 323825	34.24 0.61 0.00	30.45 0.65 0.00	30.10 0.36 0.00	28.57 0.14 0.00	29.17 0.06 0.00	31.74 0.44 0.00	40.62 -0.32 -0.77	44.18 -0.84 -0.95	40.93 -1.28 -0.95	38.12 -0.91 -1.24	37.98 0.00 -1.21	37.65 -0.33 -1.15	39.52 -0.19 -1.10	41.58 0.87 -0.91	42.83 0.82 -0.93	45.91 0.49 -1.11	50.59 0.62 -1.92	57.38 1.56 -2.13	65.85 2.54 -2.85	62.90 1.87 -2.67	52.18 1.23 -1.78	46.08 0.82 -1.80	39.24 0.15 -0.78	37.34 1.18 -1.40
BARON_WINDS___WT_PWR 323822	34.24 0.61 0.00	30.39 0.60 0.00	30.19 0.45 0.00	28.71 0.28 0.00	29.40 0.29 0.00	31.86 0.56 0.00	41.28 0.20 -0.92	45.06 -0.13 -1.12	41.85 -0.54 -1.12	38.68 -0.57 -1.46	38.13 -0.07 -1.43	37.82 -0.37 -1.36	39.68 -0.23 -1.30	41.31 0.44 -1.07	42.67 0.49 -1.10	46.02 0.40 -1.32	50.79 0.48 -2.27	57.49 1.29 -2.51	66.07 2.24 -3.36	63.50 1.99 -3.16	52.70 1.43 -2.10	46.53 0.95 -2.13	39.65 0.42 -0.92	37.45 1.04 -1.65
BARRETT_IC_1 23704	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_10 23701	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_11 23702	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_12 23703	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_2 23705	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_3 23706	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_4 23707	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_5 23708	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38



BARRETT_IC_6 23709	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_7 23710	35.67 1.61 -0.42	31.25 1.28 -0.18	30.83 0.92 -0.17	29.28 0.85 0.00	30.19 1.05 -0.03	32.57 1.10 -0.17	42.63 1.77 -0.70	46.72 1.63 -1.01	44.39 2.10 -1.02	42.27 2.72 -1.76	40.50 3.02 -0.71	40.79 3.17 -0.80	42.74 3.09 -1.04	43.32 2.59 -0.94	44.08 1.97 -1.03	47.35 1.86 -1.18	50.70 1.73 -0.93	55.53 1.56 -0.28	62.70 1.45 -0.78	60.34 1.34 -0.64	50.75 1.13 -0.45	45.55 1.17 -0.93	41.32 2.34 -0.67	36.95 1.81 -0.38
BARRETT_IC_8 23711	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT_IC_9 23700	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT___1 23545	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BARRETT___2 23546	35.57 1.52 -0.42	31.17 1.19 -0.18	30.71 0.80 -0.17	29.19 0.77 0.00	30.07 0.93 -0.03	32.47 1.00 -0.17	42.55 1.69 -0.70	46.63 1.54 -1.01	44.43 2.14 -1.02	42.34 2.80 -1.76	40.35 2.87 -0.71	40.75 3.13 -0.80	42.32 2.66 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.57 2.08 -1.18	51.08 2.11 -0.93	55.85 1.88 -0.28	63.01 1.75 -0.78	60.63 1.63 -0.64	50.95 1.33 -0.45	45.73 1.35 -0.93	41.28 2.30 -0.67	36.94 1.81 -0.38
BATAVIA__115KV_TB1 55881	34.85 1.21 0.00	31.11 1.31 0.00	30.78 1.04 0.00	29.25 0.82 0.00	29.99 0.87 0.00	32.43 1.13 0.00	41.35 0.44 -0.75	44.90 -0.09 -0.92	41.77 -0.41 -0.91	38.53 -0.45 -1.19	38.20 0.26 -1.16	37.68 -0.26 -1.11	39.71 0.04 -1.06	41.55 0.88 -0.88	43.46 1.48 -0.89	46.36 0.97 -1.08	51.44 1.54 -1.85	58.43 2.68 -2.05	67.14 3.93 -2.74	64.20 3.27 -2.58	53.25 2.36 -1.71	46.88 1.69 -1.74	39.64 0.57 -0.75	37.77 1.67 -1.35
BAYONEEC___CTG1 323682	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG10 323750	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG2 323683	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG3 323684	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG4 323685	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG5 323686	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG6 323687	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG7 323688	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38



BAYONEEC___CTG8 323689	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BAYONEEC___CTG9 323749	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.77 2.39 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
BEACON___LESR 323632	33.93 0.61 0.32	30.23 0.56 0.13	30.15 0.54 0.13	29.02 0.60 0.00	29.64 0.55 0.02	31.79 0.63 0.13	40.40 0.76 0.52	44.27 0.97 0.77	41.20 0.70 0.76	37.03 0.57 1.32	36.50 0.26 0.53	36.46 0.22 0.59	38.10 0.27 0.78	39.12 0.04 0.71	40.39 0.08 0.77	43.65 0.22 0.88	47.77 0.43 0.70	54.18 0.70 0.21	60.66 0.78 0.59	58.63 0.76 0.48	49.47 0.64 0.34	43.31 0.56 0.70	38.38 0.58 0.50	34.95 0.49 0.29
BEAVER RIVER___HYD 24048	62.42 0.84 -27.95	60.65 0.65 -30.20	35.90 0.33 -5.83	37.50 0.14 -8.93	37.81 0.18 -8.53	45.56 0.38 -13.89	66.53 0.56 -25.80	68.57 0.88 -23.62	66.16 0.58 -24.31	64.31 0.27 -26.26	42.21 0.15 -5.29	42.36 0.33 -5.20	45.47 0.66 -6.20	52.89 0.63 -12.46	57.54 0.57 -15.89	68.56 0.97 -23.28	71.27 1.15 -22.08	85.21 1.50 -30.01	89.31 2.12 -26.72	79.68 2.51 -18.81	72.44 1.82 -21.44	70.02 1.65 -24.91	65.99 1.23 -26.45	53.80 1.01 -18.03
BEEBEE_GT_13 23619	33.97 0.34 0.00	30.18 0.39 0.00	29.98 0.24 0.00	28.57 0.14 0.00	29.29 0.17 0.00	31.58 0.28 0.00	40.84 -0.04 -0.72	44.56 -0.40 -0.89	41.65 -0.50 -0.88	38.45 -0.49 -1.15	37.90 0.00 -1.12	37.57 -0.33 -1.07	39.52 -0.12 -1.02	41.04 0.40 -0.85	42.64 0.70 -0.86	45.75 0.40 -1.04	50.60 0.77 -1.79	57.07 1.40 -1.97	65.16 2.06 -2.64	62.53 1.69 -2.48	52.10 1.28 -1.65	45.90 0.78 -1.67	39.15 0.11 -0.72	36.82 0.76 -1.30
BENSHRST_27_KV_BENSHRST_1 355998	36.19 2.12 -0.43	31.80 1.82 -0.18	31.61 1.70 -0.17	29.85 1.42 0.00	30.80 1.66 -0.03	33.16 1.69 -0.17	43.48 2.61 -0.70	48.22 3.13 -1.02	45.59 3.30 -1.02	42.83 3.29 -1.76	40.90 3.42 -0.71	41.26 3.65 -0.79	43.32 3.67 -1.04	44.24 3.50 -0.94	45.52 3.41 -1.03	48.90 3.41 -1.18	52.34 3.36 -0.93	57.21 3.22 -0.29	64.46 3.20 -0.78	62.04 3.03 -0.64	52.34 2.70 -0.46	46.95 2.56 -0.94	41.55 2.57 -0.67	37.26 2.12 -0.38
BETHLEHEM___GRP 23843	33.44 0.10 0.30	29.79 0.12 0.12	29.80 0.18 0.12	28.62 0.20 0.00	29.27 0.17 0.02	31.37 0.19 0.12	39.80 0.12 0.49	43.58 0.22 0.72	40.76 0.21 0.71	36.70 0.15 1.23	36.20 -0.07 0.50	36.28 0.00 0.55	37.80 -0.08 0.73	38.97 -0.16 0.66	40.16 -0.21 0.72	43.31 -0.18 0.82	47.24 -0.14 0.65	53.34 -0.16 0.20	59.68 -0.24 0.55	57.68 -0.23 0.45	48.71 -0.15 0.32	42.75 -0.04 0.66	37.92 0.08 0.47	34.49 0.00 0.27
BETHLEHEM___GS1 323560	33.44 0.10 0.30	29.82 0.15 0.12	29.71 0.09 0.12	28.62 0.20 0.00	29.27 0.18 0.02	31.33 0.16 0.12	39.84 0.16 0.49	43.67 0.31 0.72	40.80 0.25 0.71	36.78 0.23 1.23	36.24 -0.04 0.50	36.24 -0.04 0.55	37.80 -0.08 0.73	38.86 -0.28 0.66	40.12 -0.25 0.72	43.27 -0.22 0.82	47.20 -0.19 0.65	53.28 -0.21 0.20	59.56 -0.36 0.55	57.62 -0.29 0.45	48.61 -0.24 0.32	42.66 -0.13 0.66	37.80 -0.04 0.47	34.45 -0.03 0.27
BETHLEHEM___GS2 323561	33.44 0.10 0.30	29.82 0.15 0.12	29.71 0.09 0.12	28.62 0.20 0.00	29.27 0.18 0.02	31.33 0.16 0.12	39.84 0.16 0.49	43.67 0.31 0.72	40.80 0.25 0.71	36.78 0.23 1.23	36.24 -0.04 0.50	36.24 -0.04 0.55	37.80 -0.08 0.73	38.86 -0.28 0.66	40.12 -0.25 0.72	43.27 -0.22 0.82	47.20 -0.19 0.65	53.28 -0.21 0.20	59.56 -0.36 0.55	57.62 -0.29 0.45	48.61 -0.24 0.32	42.66 -0.13 0.66	37.80 -0.04 0.47	34.45 -0.03 0.27
BETHLEHEM___GS3 323562	33.44 0.10 0.30	29.82 0.15 0.12	29.71 0.09 0.12	28.62 0.20 0.00	29.27 0.18 0.02	31.33 0.16 0.12	39.84 0.16 0.49	43.67 0.31 0.72	40.80 0.25 0.71	36.78 0.23 1.23	36.24 -0.04 0.50	36.24 -0.04 0.55	37.80 -0.08 0.73	38.86 -0.28 0.66	40.12 -0.25 0.72	43.27 -0.22 0.82	47.20 -0.19 0.65	53.28 -0.21 0.20	59.56 -0.36 0.55	57.62 -0.29 0.45	48.61 -0.24 0.32	42.66 -0.13 0.66	37.80 -0.04 0.47	34.45 -0.03 0.27
BETHLEHEM___STEEL 23779	34.11 0.47 0.00	30.39 0.60 0.00	30.13 0.39 0.00	28.54 0.11 0.00	29.32 0.20 0.00	31.61 0.31 0.00	40.41 -0.52 -0.77	43.83 -1.19 -0.95	40.72 -1.49 -0.94	38.00 -1.02 -1.23	37.79 -0.18 -1.20	37.24 -0.74 -1.15	39.16 -0.54 -1.09	40.90 0.20 -0.90	42.95 0.94 -0.92	45.59 0.18 -1.11	50.53 0.58 -1.91	57.31 1.50 -2.11	65.66 2.36 -2.83	62.83 1.81 -2.66	51.93 0.98 -1.77	45.81 0.56 -1.79	38.70 -0.38 -0.77	37.19 1.04 -1.39
BETHLHEM_115KV_TB1 79974	33.56 0.20 0.28	29.89 0.21 0.12	29.90 0.27 0.11	28.71 0.28 0.00	29.36 0.26 0.02	31.44 0.25 0.11	39.99 0.28 0.46	43.75 0.35 0.67	40.93 0.33 0.67	36.89 0.26 1.16	36.38 0.07 0.47	36.42 0.11 0.52	38.00 0.08 0.69	39.17 0.00 0.62	40.37 -0.04 0.68	43.54 0.00 0.77	47.43 0.00 0.61	53.51 0.00 0.19	59.89 -0.06 0.52	57.88 -0.06 0.42	48.87 0.00 0.30	42.92 0.09 0.62	38.06 0.19 0.44	34.61 0.10 0.25
BETHPAGE_CC_5 323564	35.47 1.41 -0.42	31.11 1.13 -0.18	30.56 0.65 -0.17	29.08 0.65 0.00	29.95 0.81 -0.03	32.32 0.85 -0.17	42.39 1.53 -0.70	46.50 1.41 -1.02	44.35 2.06 -1.02	42.27 2.72 -1.76	40.35 2.87 -0.71	40.79 3.17 -0.80	42.32 2.66 -1.04	43.12 2.39 -0.94	44.25 2.13 -1.03	47.52 2.04 -1.18	51.08 2.11 -0.93	55.69 1.72 -0.28	62.82 1.57 -0.78	60.46 1.46 -0.64	50.80 1.18 -0.45	45.59 1.21 -0.93	41.21 2.22 -0.67	36.91 1.77 -0.38
BIGTREE_115_KV_TB2_REV_LBMP_A 345034	34.11 0.47 0.00	30.39 0.60 0.00	30.13 0.39 0.00	28.54 0.11 0.00	29.32 0.20 0.00	31.61 0.31 0.00	40.50 -0.44 -0.77	43.92 -1.10 -0.95	40.81 -1.40 -0.94	38.04 -0.98 -1.23	37.83 -0.15 -1.20	37.31 -0.66 -1.15	39.24 -0.46 -1.10	40.98 0.28 -0.91	43.07 1.07 -0.92	45.69 0.27 -1.11	50.63 0.67 -1.92	57.37 1.56 -2.12	65.79 2.48 -2.84	62.95 1.93 -2.67	51.98 1.03 -1.77	45.86 0.61 -1.80	38.78 -0.31 -0.78	37.23 1.08 -1.40
BINGHAMTON___COGEN 23790	34.07 0.44 0.00	30.21 0.42 0.00	30.16 0.42 0.00	28.71 0.28 0.00	29.49 0.38 0.00	31.74 0.44 0.00	41.55 0.44 -0.94	45.57 0.35 -1.15	42.57 0.17 -1.14	39.39 0.11 -1.49	38.52 0.29 -1.45	38.40 0.18 -1.39	40.21 0.27 -1.32	41.33 0.44 -1.10	42.86 0.66 -1.12	46.27 0.62 -1.34	51.08 0.72 -2.32	57.29 1.02 -2.58	65.25 1.33 -3.45	62.83 1.23 -3.24	52.26 0.93 -2.16	46.29 0.65 -2.18	39.60 0.34 -0.94	37.08 0.63 -1.70



BIXINCNT_115KV_LOAD 355685	34.11 0.47 0.00	30.36 0.57 0.00	30.07 0.33 0.00	28.42 0.00 0.00	29.29 0.17 0.00	31.67 0.38 0.00	40.79 -0.16 -0.78	44.42 -0.62 -0.96	41.23 -0.99 -0.96	38.43 -0.60 -1.25	38.18 0.18 -1.22	37.70 -0.29 -1.16	39.57 -0.15 -1.11	41.27 0.56 -0.92	43.42 1.40 -0.94	46.05 0.62 -1.12	51.04 1.06 -1.94	57.72 1.88 -2.15	66.12 2.78 -2.87	63.28 2.22 -2.70	52.25 1.28 -1.80	46.14 0.87 -1.82	39.02 -0.08 -0.78	37.35 1.18 -1.41
BLACK RIVER___HYD 24047	54.09 1.18 -19.28	51.55 0.92 -20.83	34.51 0.74 -4.02	35.07 0.48 -6.16	35.54 0.55 -5.88	41.75 0.88 -9.58	59.93 1.25 -18.52	62.99 1.76 -17.15	60.18 1.28 -17.63	57.71 0.68 -19.24	42.03 0.51 -4.74	42.12 0.66 -4.63	44.81 0.93 -5.28	50.13 0.92 -9.42	53.75 0.86 -11.80	62.76 1.38 -17.07	66.70 1.68 -16.97	78.59 2.20 -22.69	84.58 3.02 -21.09	77.46 3.62 -15.48	68.28 2.65 -16.45	64.62 2.30 -18.87	59.01 1.73 -18.97	49.93 1.43 -13.75
BLACKRVR_115KV_TB2 79977	54.09 1.18 -19.28	51.55 0.92 -20.83	34.51 0.74 -4.02	35.07 0.48 -6.16	35.58 0.58 -5.88	41.72 0.85 -9.58	59.93 1.25 -18.52	62.99 1.76 -17.15	60.18 1.28 -17.63	57.74 0.72 -19.24	42.07 0.55 -4.74	42.12 0.66 -4.63	44.81 0.93 -5.28	50.13 0.92 -9.42	53.70 0.82 -11.80	62.75 1.37 -17.07	66.75 1.73 -16.97	78.59 2.20 -22.69	84.65 3.08 -21.09	77.51 3.68 -15.48	68.28 2.66 -16.45	64.62 2.30 -18.87	59.01 1.72 -18.97	49.93 1.42 -13.75
BLDWN_LI_69_KV_BK4 356085	35.81 1.75 -0.42	31.37 1.40 -0.18	30.92 1.01 -0.17	29.36 0.94 0.00	30.30 1.16 -0.03	32.66 1.19 -0.17	42.79 1.93 -0.70	46.94 1.85 -1.02	44.68 2.39 -1.02	42.46 2.91 -1.76	40.76 3.27 -0.71	41.05 3.42 -0.80	43.05 3.40 -1.04	43.64 2.90 -0.94	44.45 2.34 -1.03	47.74 2.26 -1.18	51.18 2.21 -0.93	56.02 2.04 -0.28	63.31 2.06 -0.78	60.87 1.87 -0.64	51.20 1.57 -0.45	45.90 1.52 -0.93	41.51 2.53 -0.67	37.12 1.98 -0.38
BLISS_WT_PWR 323608	34.14 0.51 0.00	30.33 0.54 0.00	29.95 0.21 0.00	28.42 0.00 0.00	29.05 -0.06 0.00	31.68 0.38 0.00	40.71 -0.24 -0.78	44.46 -0.57 -0.96	41.23 -0.99 -0.96	38.39 -0.64 -1.25	38.21 0.22 -1.22	37.92 -0.07 -1.16	39.80 0.08 -1.11	41.87 1.15 -0.92	43.08 1.07 -0.94	46.27 0.84 -1.12	50.89 0.91 -1.94	57.56 1.72 -2.15	66.12 2.78 -2.87	63.16 2.10 -2.70	52.34 1.37 -1.80	46.18 0.91 -1.82	39.44 0.34 -0.78	37.38 1.22 -1.41
BLUESTONE___WT_PWR 323821	35.25 1.61 0.00	31.17 1.37 0.00	31.17 1.43 0.00	29.59 1.17 0.00	30.45 1.34 0.00	32.89 1.60 0.00	43.10 2.13 -0.81	47.58 2.51 -0.99	44.32 2.06 -0.99	40.55 1.47 -1.29	39.43 1.40 -1.26	39.43 1.40 -1.20	41.30 1.55 -1.15	42.41 1.67 -0.95	43.70 1.65 -0.97	47.69 2.21 -1.16	52.64 2.59 -2.01	59.20 3.28 -2.22	67.56 4.11 -2.98	65.48 4.32 -2.80	54.38 3.35 -1.86	48.07 2.74 -1.89	41.23 2.11 -0.81	38.13 1.91 -1.47
BLUE_CIRC_CHEM_DRP 24182	34.13 0.64 0.15	30.30 0.57 0.06	30.34 0.65 0.06	29.05 0.63 0.00	29.68 0.58 0.01	31.86 0.63 0.06	40.64 0.72 0.25	44.46 0.75 0.36	41.40 0.50 0.36	37.54 0.38 0.63	36.63 0.11 0.25	36.69 0.15 0.28	38.35 0.12 0.37	39.54 0.08 0.34	40.80 0.08 0.37	44.11 0.22 0.42	48.05 0.34 0.33	54.19 0.59 0.10	60.91 0.73 0.28	58.83 0.70 0.23	49.65 0.64 0.16	43.77 0.65 0.33	38.72 0.65 0.24	35.14 0.52 0.14
BOC_GAS_DRP 24189	33.93 0.47 0.18	30.14 0.42 0.07	30.15 0.48 0.07	28.91 0.48 0.00	29.57 0.47 0.01	31.70 0.47 0.07	40.47 0.60 0.29	44.30 0.66 0.43	41.50 0.66 0.43	37.69 0.64 0.74	36.99 0.51 0.30	37.09 0.59 0.33	38.71 0.54 0.44	39.87 0.48 0.40	41.10 0.45 0.43	44.30 0.49 0.50	48.13 0.48 0.39	54.01 0.43 0.12	60.50 0.36 0.33	58.50 0.41 0.27	49.38 0.39 0.19	43.49 0.43 0.39	38.53 0.50 0.28	34.97 0.38 0.16
BOONVILLE_115KV_TB1 79983	45.24 0.84 -10.76	42.11 0.69 -11.63	32.49 0.51 -2.25	32.21 0.34 -3.44	32.77 0.38 -3.28	37.18 0.53 -5.35	51.05 0.80 -10.08	54.44 1.10 -9.27	51.67 0.87 -9.53	48.69 0.57 -10.34	39.47 0.44 -2.26	39.59 0.55 -2.21	41.97 0.77 -2.59	45.55 0.80 -4.96	48.11 0.74 -6.29	54.58 1.11 -9.17	58.19 1.30 -8.85	67.26 1.61 -11.95	73.34 2.06 -10.82	68.44 2.33 -7.74	59.48 1.72 -8.59	54.90 1.52 -9.93	49.79 1.15 -10.33	42.90 0.94 -7.21
BORALEX_4TH_BRANCH 23824	34.04 1.31 0.91	30.55 1.13 0.38	30.51 1.13 0.36	29.53 1.11 0.00	30.19 1.14 0.06	32.21 1.28 0.37	40.59 1.93 1.50	44.03 2.16 2.20	41.06 1.98 2.19	35.85 1.85 3.79	36.68 1.43 1.53	36.61 1.47 1.69	37.83 1.47 2.25	39.16 1.39 2.03	40.27 1.40 2.21	43.29 1.51 2.53	47.86 1.83 2.01	55.07 1.99 0.62	60.90 2.12 1.69	58.96 1.98 1.39	49.86 1.67 0.98	43.00 1.56 2.01	38.36 1.49 1.45	35.18 1.25 0.83
BOWLINE___1 23526	35.27 1.25 -0.38	31.06 1.10 -0.16	30.87 0.98 -0.15	29.33 0.91 0.00	30.16 1.02 -0.03	32.58 1.13 -0.16	42.65 1.85 -0.64	47.16 2.16 -0.93	44.46 2.27 -0.93	41.62 2.23 -1.60	39.70 2.28 -0.65	39.94 2.39 -0.72	42.00 2.43 -0.95	42.96 2.31 -0.86	44.40 2.38 -0.94	47.82 2.44 -1.07	51.34 2.45 -0.85	56.38 2.42 -0.26	63.48 2.30 -0.71	61.16 2.22 -0.59	51.46 1.87 -0.42	46.08 1.78 -0.85	40.76 1.84 -0.61	36.53 1.43 -0.35
BOWLINE___2 23595	35.27 1.25 -0.38	31.06 1.10 -0.16	30.87 0.98 -0.15	29.33 0.91 0.00	30.16 1.02 -0.03	32.58 1.13 -0.16	42.65 1.85 -0.64	47.16 2.16 -0.93	44.42 2.23 -0.93	41.62 2.23 -1.60	39.66 2.24 -0.65	39.94 2.39 -0.72	42.00 2.43 -0.95	42.92 2.27 -0.86	44.36 2.34 -0.94	47.82 2.44 -1.07	51.34 2.45 -0.85	56.32 2.36 -0.26	63.48 2.30 -0.71	61.16 2.22 -0.59	51.41 1.82 -0.42	46.04 1.74 -0.85	40.76 1.84 -0.61	36.50 1.39 -0.35
BRADY___115KV_TB2 356060	130.62 0.30 -96.68	134.52 -0.24 -104.48	50.13 0.21 -20.18	59.53 0.20 -30.91	58.84 0.23 -29.50	79.62 0.28 -48.04	127.15 0.44 -86.54	123.13 0.57 -78.49	122.60 0.45 -80.88	124.76 0.34 -86.63	51.18 0.22 -14.19	51.16 0.26 -14.08	56.57 0.23 -17.72	80.00 0.20 -40.01	93.13 0.25 -51.80	121.41 0.35 -76.74	118.37 0.48 -69.84	150.59 0.54 -96.35	143.68 0.73 -82.49	114.84 0.76 -55.72	117.72 0.59 -67.96	123.95 0.61 -79.89	127.57 0.46 -88.79	92.56 0.31 -57.49
BRANSCOMB___SOLAR 323811	34.52 1.35 0.46	30.74 1.13 0.19	30.72 1.16 0.18	29.56 1.14 0.00	30.22 1.13 0.03	32.39 1.28 0.19	41.05 1.65 0.77	44.72 1.76 1.12	41.14 0.99 1.11	36.61 0.76 1.93	36.18 0.18 0.78	36.08 0.11 0.86	37.58 0.12 1.14	38.92 0.16 1.03	40.20 0.25 1.13	43.60 0.57 1.29	48.08 1.06 1.02	55.21 1.83 0.31	61.97 2.36 0.86	60.11 2.45 0.71	50.69 2.02 0.50	44.12 1.69 1.02	39.15 1.57 0.74	35.55 1.22 0.42
BRDGHMPT_69_KV_BK1 55812	35.54 1.48 -0.42	31.17 1.19 -0.18	30.59 0.68 -0.17	29.02 0.60 0.00	29.96 0.82 -0.03	32.22 0.75 -0.17	42.19 1.33 -0.70	46.23 1.15 -1.01	44.27 1.98 -1.02	42.23 2.68 -1.76	40.68 3.20 -0.71	41.05 3.42 -0.79	43.01 3.36 -1.04	43.52 2.79 -0.94	44.17 2.05 -1.03	47.43 1.95 -1.18	50.80 1.83 -0.93	55.53 1.56 -0.28	62.82 1.57 -0.78	60.28 1.28 -0.64	50.70 1.08 -0.45	45.68 1.30 -0.93	41.59 2.61 -0.67	37.22 2.09 -0.38



BRENTWOD_69_KV_W. BRTWOOD 56703	36.11 2.05 -0.42	31.58 1.61 -0.18	31.07 1.16 -0.17	29.48 1.05 0.00	30.45 1.31 -0.03	32.82 1.35 -0.17	43.11 2.25 -0.70	47.16 2.07 -1.01	45.09 2.81 -1.02	42.91 3.36 -1.76	41.31 3.82 -0.71	41.64 4.01 -0.80	43.63 3.98 -1.04	44.16 3.42 -0.94	44.82 2.71 -1.03	48.05 2.57 -1.18	51.52 2.55 -0.93	56.29 2.31 -0.28	63.67 2.42 -0.78	61.16 2.16 -0.64	51.39 1.77 -0.45	46.12 1.74 -0.93	41.97 2.99 -0.67	37.50 2.36 -0.38
BRISTLHL_115KV_TB1 79998	35.83 -0.27 -2.46	32.22 -0.24 -2.66	29.99 -0.27 -0.51	28.93 -0.28 -0.79	29.60 -0.26 -0.75	32.27 -0.25 -1.22	44.63 -0.40 -4.87	48.78 -0.48 -5.19	46.02 -0.50 -5.25	43.62 -0.53 -6.37	40.74 -0.44 -4.41	40.54 -0.52 -4.22	42.29 -0.46 -4.14	43.51 -0.36 -4.07	45.15 -0.37 -4.43	49.61 -0.40 -5.70	55.94 -0.34 -8.23	63.19 -0.27 -9.76	72.22 -0.12 -11.87	68.85 -0.12 -10.60	56.87 -0.15 -7.84	51.37 -0.30 -8.22	42.86 -0.38 -4.93	40.82 -0.21 -6.27
BROOKHAVEN___DRP 24191	35.34 1.28 -0.42	30.93 0.95 -0.18	30.38 0.48 -0.17	28.85 0.43 0.00	29.78 0.64 -0.03	32.10 0.63 -0.17	42.07 1.20 -0.70	46.06 0.97 -1.01	44.06 1.77 -1.02	41.97 2.42 -1.76	40.39 2.91 -0.71	40.72 3.09 -0.79	42.67 3.01 -1.04	43.16 2.43 -0.94	43.80 1.68 -1.03	47.04 1.55 -1.18	50.32 1.35 -0.93	55.00 1.02 -0.28	62.16 0.91 -0.78	59.70 0.70 -0.64	50.21 0.59 -0.45	45.25 0.87 -0.93	41.25 2.26 -0.67	36.81 1.67 -0.38
BROOKLYN_NAVY_YARD 23515	35.57 1.52 -0.42	31.25 1.28 -0.18	31.04 1.13 -0.17	29.50 1.08 0.00	30.33 1.19 -0.03	32.82 1.34 -0.17	43.15 2.29 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.46 2.91 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.19 3.08 -1.03	48.59 3.10 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.73 2.34 -0.94	41.24 2.26 -0.67	36.84 1.70 -0.38
BROOKLYN___ARMY_DRP 323595	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
BROOME_2_LFGE 323671	34.11 0.47 0.00	30.21 0.42 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.74 0.44 0.00	41.55 0.44 -0.94	45.57 0.35 -1.15	42.57 0.17 -1.14	39.39 0.11 -1.49	38.56 0.33 -1.45	38.44 0.22 -1.39	40.24 0.31 -1.32	41.45 0.56 -1.10	42.82 0.62 -1.12	46.36 0.71 -1.34	51.08 0.72 -2.32	57.29 1.02 -2.58	65.31 1.39 -3.45	62.88 1.28 -3.24	52.31 0.98 -2.16	46.33 0.69 -2.18	39.72 0.46 -0.94	37.11 0.66 -1.70
BROOME___LFGE 323600	34.11 0.47 0.00	30.21 0.42 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.74 0.44 0.00	41.55 0.44 -0.94	45.57 0.35 -1.15	42.57 0.17 -1.14	39.39 0.11 -1.49	38.56 0.33 -1.45	38.44 0.22 -1.39	40.24 0.31 -1.32	41.45 0.56 -1.10	42.82 0.62 -1.12	46.36 0.71 -1.34	51.08 0.72 -2.32	57.29 1.02 -2.58	65.31 1.39 -3.45	62.88 1.28 -3.24	52.31 0.98 -2.16	46.33 0.69 -2.18	39.72 0.46 -0.94	37.11 0.66 -1.70
BROWNFLS_115KV_TB_3_5 80003	84.50 0.54 -50.32	84.59 0.42 -54.38	40.48 0.24 -10.51	44.62 0.11 -16.09	44.61 0.15 -15.35	56.55 0.25 -25.00	86.20 0.44 -45.59	86.28 0.71 -41.50	84.51 0.50 -42.75	84.03 0.30 -45.94	45.17 0.18 -8.21	45.24 0.29 -8.12	49.05 0.46 -9.98	61.68 0.44 -21.45	69.09 0.41 -27.60	85.73 0.71 -40.71	86.58 0.86 -37.67	106.43 1.07 -51.65	106.86 1.45 -44.94	90.94 1.69 -30.89	87.03 1.23 -36.63	87.43 1.13 -42.85	85.92 0.84 -46.77	66.29 0.63 -30.91
BROWNSV1_27_KV_LOAD 356125	35.91 1.85 -0.42	31.55 1.58 -0.18	31.36 1.46 -0.17	29.82 1.39 0.00	30.68 1.54 -0.03	33.13 1.66 -0.17	43.48 2.61 -0.70	48.18 3.09 -1.02	45.54 3.26 -1.02	42.76 3.21 -1.76	40.79 3.31 -0.71	41.15 3.54 -0.79	43.21 3.55 -1.04	44.16 3.42 -0.94	45.44 3.33 -1.03	48.85 3.37 -1.18	52.39 3.41 -0.93	57.37 3.38 -0.29	64.70 3.45 -0.78	62.27 3.27 -0.64	52.38 2.75 -0.46	46.99 2.61 -0.94	41.55 2.57 -0.67	37.19 2.05 -0.38
BURROWS___LYONSDAL 23803	48.61 0.84 -14.13	45.76 0.69 -15.27	33.11 0.42 -2.95	33.20 0.26 -4.52	33.72 0.29 -4.31	38.76 0.44 -7.02	54.01 0.68 -13.16	57.13 0.97 -12.08	54.44 0.74 -12.43	51.70 0.45 -13.46	39.95 0.33 -2.85	40.10 0.48 -2.80	42.68 0.77 -3.30	46.98 0.76 -6.43	49.99 0.74 -8.17	57.35 1.11 -11.94	60.79 1.30 -11.45	70.80 1.61 -15.49	76.53 2.12 -13.94	70.73 2.45 -9.91	62.06 1.77 -11.11	57.88 1.56 -12.87	52.99 1.19 -13.49	45.06 0.97 -9.33
CAITHNESS_CC_1 323624	35.24 1.18 -0.42	30.87 0.89 -0.18	30.27 0.36 -0.17	28.77 0.34 0.00	29.67 0.52 -0.03	32.00 0.53 -0.17	42.07 1.20 -0.70	46.06 0.97 -1.01	44.06 1.77 -1.02	42.04 2.49 -1.76	40.20 2.72 -0.71	40.68 3.05 -0.79	42.09 2.43 -1.04	42.88 2.15 -0.94	43.96 1.85 -1.03	47.21 1.73 -1.18	50.84 1.87 -0.93	55.26 1.29 -0.28	62.22 0.96 -0.78	59.81 0.82 -0.64	50.41 0.78 -0.45	45.38 1.00 -0.93	41.17 2.18 -0.67	36.81 1.67 -0.38
CALPINE BETH_PAGE_GT4 24209	35.74 1.68 -0.42	31.28 1.31 -0.18	30.86 0.95 -0.17	29.28 0.85 0.00	30.22 1.08 -0.03	32.57 1.10 -0.17	42.43 1.57 -0.70	46.45 1.37 -1.02	44.31 2.02 -1.02	42.15 2.61 -1.76	40.46 2.98 -0.71	40.79 3.17 -0.80	42.74 3.09 -1.04	43.28 2.55 -0.94	44.08 1.97 -1.03	47.35 1.86 -1.18	50.65 1.68 -0.93	55.37 1.40 -0.28	62.58 1.33 -0.78	60.17 1.17 -0.64	50.61 0.98 -0.45	45.42 1.04 -0.93	41.25 2.26 -0.67	36.91 1.77 -0.38
CALPINE_BETH_PAGE_GT_4 323586	35.47 1.41 -0.42	31.11 1.13 -0.18	30.59 0.68 -0.17	29.08 0.65 0.00	29.95 0.81 -0.03	32.35 0.88 -0.17	42.35 1.49 -0.70	46.50 1.41 -1.02	44.31 2.02 -1.02	42.23 2.68 -1.76	40.31 2.83 -0.71	40.75 3.13 -0.80	42.28 2.63 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.52 2.04 -1.18	51.08 2.11 -0.93	55.70 1.72 -0.28	62.82 1.57 -0.78	60.46 1.46 -0.64	50.80 1.18 -0.45	45.59 1.21 -0.93	41.21 2.22 -0.67	36.91 1.77 -0.38
CALPINE_BP_GT1 23823	35.47 1.41 -0.42	31.11 1.13 -0.18	30.59 0.68 -0.17	29.08 0.65 0.00	29.95 0.81 -0.03	32.35 0.88 -0.17	42.35 1.49 -0.70	46.50 1.41 -1.02	44.31 2.02 -1.02	42.23 2.68 -1.76	40.31 2.83 -0.71	40.75 3.13 -0.80	42.28 2.63 -1.04	43.08 2.35 -0.94	44.25 2.13 -1.03	47.52 2.04 -1.18	51.08 2.11 -0.93	55.70 1.72 -0.28	62.82 1.57 -0.78	60.46 1.46 -0.64	50.80 1.18 -0.45	45.59 1.21 -0.93	41.21 2.22 -0.67	36.91 1.77 -0.38
CALSPAN___DRP 24200	34.11 0.47 0.00	30.39 0.60 0.00	30.13 0.39 0.00	28.54 0.11 0.00	29.32 0.20 0.00	31.61 0.31 0.00	40.41 -0.52 -0.77	43.83 -1.19 -0.95	40.72 -1.49 -0.94	38.00 -1.02 -1.23	37.79 -0.18 -1.20	37.24 -0.74 -1.15	39.16 -0.54 -1.09	40.90 0.20 -0.90	42.95 0.94 -0.92	45.59 0.18 -1.11	50.53 0.58 -1.91	57.31 1.50 -2.11	65.66 2.36 -2.83	62.83 1.81 -2.66	51.93 0.98 -1.77	45.81 0.56 -1.79	38.70 -0.38 -0.77	37.19 1.04 -1.39



CALVERTON___SOLAR 323806	35.27 1.21 -0.42	30.87 0.89 -0.18	30.27 0.36 -0.17	28.77 0.34 0.00	29.67 0.52 -0.03	32.00 0.53 -0.17	42.07 1.20 -0.70	46.06 0.97 -1.01	44.06 1.77 -1.02	42.08 2.53 -1.76	40.20 2.72 -0.71	40.68 3.05 -0.79	42.13 2.47 -1.04	42.92 2.19 -0.94	43.96 1.85 -1.03	47.26 1.77 -1.18	50.94 1.97 -0.93	55.37 1.39 -0.28	62.34 1.09 -0.78	59.93 0.93 -0.64	50.51 0.89 -0.45	45.46 1.09 -0.93	41.21 2.22 -0.67	36.84 1.70 -0.38
CANDIGU_WT_PWR 323617	34.24 0.61 0.00	30.39 0.60 0.00	30.19 0.45 0.00	28.71 0.28 0.00	29.40 0.29 0.00	31.86 0.56 0.00	41.28 0.20 -0.92	45.06 -0.13 -1.12	41.85 -0.54 -1.12	38.68 -0.57 -1.46	38.13 -0.07 -1.43	37.82 -0.37 -1.36	39.68 -0.23 -1.30	41.31 0.44 -1.07	42.67 0.49 -1.10	46.02 0.40 -1.32	50.79 0.48 -2.27	57.49 1.29 -2.51	66.07 2.24 -3.36	63.50 1.99 -3.16	52.70 1.43 -2.10	46.53 0.95 -2.13	39.65 0.42 -0.92	37.45 1.04 -1.65
CARR STREET_E_SYR 24060	35.70 -0.07 -2.13	32.04 -0.06 -2.30	30.13 -0.06 -0.44	29.02 -0.09 -0.68	29.67 -0.09 -0.65	32.33 -0.03 -1.06	43.15 -0.24 -3.23	46.99 -0.40 -3.32	44.22 -0.41 -3.37	41.27 -0.49 -3.98	38.74 -0.37 -2.33	38.66 -0.40 -2.24	40.45 -0.39 -2.23	42.00 -0.20 -2.40	43.57 -0.20 -2.69	47.69 -0.18 -3.55	52.60 -0.19 -4.75	59.40 -0.05 -5.75	67.27 0.12 -6.68	64.27 0.12 -5.79	53.76 0.05 -4.53	48.16 -0.13 -4.84	41.33 -0.27 -3.28	38.27 -0.14 -3.66
CARTHAGE___PAPER 23857	57.24 0.98 -22.63	55.03 0.77 -24.46	34.97 0.51 -4.72	35.94 0.28 -7.23	36.34 0.32 -6.90	43.11 0.56 -11.24	62.38 0.88 -21.34	65.01 1.28 -19.65	62.35 0.87 -20.22	60.20 0.46 -21.96	42.02 0.29 -4.95	42.12 0.44 -4.85	44.98 0.73 -5.63	51.10 0.72 -10.59	55.12 0.66 -13.38	64.89 1.11 -19.47	68.39 1.39 -18.95	80.99 1.77 -25.52	86.28 2.54 -23.27	78.16 3.03 -16.77	69.72 2.16 -18.38	66.57 1.91 -21.21	61.63 1.46 -21.87	51.31 1.15 -15.41
CASSADAGA_WT_PWR 323784	34.75 1.11 0.00	30.87 1.07 0.00	30.30 0.56 0.00	28.74 0.31 0.00	29.37 0.26 0.00	32.24 0.94 0.00	41.51 0.56 -0.78	45.38 0.35 -0.96	41.81 -0.41 -0.95	39.03 0.00 -1.25	38.91 0.92 -1.22	38.69 0.70 -1.16	40.57 0.85 -1.11	42.66 1.95 -0.92	43.91 1.89 -0.93	47.16 1.73 -1.12	51.90 1.92 -1.94	58.84 3.01 -2.14	67.63 4.29 -2.87	64.61 3.56 -2.69	53.52 2.56 -1.79	47.13 1.87 -1.81	40.21 1.11 -0.78	38.07 1.91 -1.41
CE_DUNWOOD___DRP 24194	35.50 1.45 -0.42	31.22 1.25 -0.18	31.07 1.16 -0.17	29.53 1.11 0.00	30.36 1.22 -0.03	32.79 1.31 -0.17	42.91 2.05 -0.70	47.52 2.42 -1.02	44.88 2.60 -1.02	42.15 2.61 -1.76	40.17 2.68 -0.71	40.45 2.84 -0.78	42.51 2.86 -1.04	43.44 2.71 -0.94	44.74 2.63 -1.03	48.14 2.66 -1.17	51.62 2.64 -0.93	56.51 2.52 -0.29	63.79 2.54 -0.78	61.40 2.39 -0.64	51.65 2.02 -0.46	46.34 1.96 -0.93	40.98 1.99 -0.67	36.70 1.56 -0.38
CE_MILLWOOD___DRP 24193	35.47 1.41 -0.42	31.19 1.22 -0.18	31.04 1.13 -0.17	29.48 1.05 0.00	30.30 1.16 -0.03	32.76 1.28 -0.17	42.83 1.97 -0.70	47.38 2.29 -1.02	44.76 2.48 -1.01	42.00 2.46 -1.75	39.98 2.50 -0.71	40.30 2.69 -0.78	42.39 2.74 -1.04	43.32 2.59 -0.94	44.61 2.51 -1.02	48.01 2.53 -1.17	51.47 2.50 -0.93	56.40 2.42 -0.29	63.67 2.42 -0.78	61.28 2.28 -0.64	51.55 1.92 -0.46	46.25 1.87 -0.93	40.90 1.92 -0.67	36.63 1.49 -0.38
CE_NYC2_DRP 24202	35.82 1.75 -0.43	31.47 1.49 -0.18	31.31 1.40 -0.17	29.70 1.28 0.00	30.57 1.43 -0.03	32.94 1.47 -0.17	43.15 2.29 -0.70	47.83 2.73 -1.02	45.26 2.97 -1.02	42.53 2.99 -1.76	40.57 3.09 -0.71	40.89 3.28 -0.79	42.98 3.32 -1.04	43.84 3.10 -0.94	45.11 3.00 -1.03	48.45 2.97 -1.18	51.86 2.88 -0.93	56.67 2.68 -0.29	63.91 2.66 -0.78	61.46 2.45 -0.64	51.79 2.16 -0.46	46.52 2.13 -0.94	41.21 2.22 -0.67	36.95 1.81 -0.38
CE_NYC_DRP 24195	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.19 2.33 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.90 3.24 -1.04	43.84 3.10 -0.94	45.11 3.00 -1.03	48.50 3.01 -1.18	52.00 3.03 -0.93	56.88 2.90 -0.29	64.15 2.90 -0.78	61.75 2.74 -0.64	51.99 2.36 -0.46	46.65 2.26 -0.94	41.28 2.30 -0.67	36.95 1.81 -0.38
CHAFFEE___LFGE 323603	34.21 0.57 0.00	30.39 0.60 0.00	30.10 0.36 0.00	28.57 0.14 0.00	29.14 0.03 0.00	31.64 0.34 0.00	40.46 -0.48 -0.78	44.06 -0.97 -0.95	40.89 -1.32 -0.95	38.04 -0.98 -1.24	37.91 -0.07 -1.21	37.58 -0.40 -1.15	39.44 -0.27 -1.10	41.54 0.84 -0.91	42.71 0.70 -0.93	45.82 0.40 -1.12	50.55 0.58 -1.93	57.28 1.45 -2.13	65.80 2.48 -2.85	62.91 1.87 -2.68	52.13 1.18 -1.78	46.04 0.78 -1.81	39.13 0.04 -0.78	37.27 1.11 -1.40
CHATEAUG_35_KV_LOAD 355732	45.16 0.54 -10.98	42.17 0.51 -11.87	32.54 0.51 -2.29	32.48 0.54 -3.51	33.02 0.55 -3.35	37.35 0.59 -5.46	50.92 0.92 -9.83	54.00 1.01 -8.92	51.49 1.03 -9.19	48.69 1.06 -9.84	39.34 0.96 -1.61	39.35 0.92 -1.60	41.51 0.89 -2.01	45.25 0.92 -4.55	47.95 0.99 -5.89	54.14 1.11 -8.72	57.23 1.25 -7.94	65.99 1.34 -10.95	71.29 1.45 -9.37	65.92 1.23 -6.33	57.98 1.08 -7.72	53.53 1.00 -9.08	49.17 0.77 -10.09	41.84 0.56 -6.53
CHATEAUG_WT_PWR 323614	38.44 0.54 -4.27	34.95 0.54 -4.61	31.17 0.54 -0.89	30.36 0.57 -1.36	31.00 0.58 -1.30	34.05 0.63 -2.12	44.31 0.32 -3.82	47.67 0.13 -3.47	45.09 0.25 -3.57	42.25 0.64 -3.83	37.99 0.59 -0.63	38.00 0.55 -0.62	39.89 0.50 -0.78	42.08 0.52 -1.77	43.94 0.57 -2.29	47.92 0.22 -3.39	51.37 0.24 -3.08	58.22 0.27 -4.25	64.29 0.18 -3.64	60.88 0.06 -2.46	52.22 0.05 -3.00	47.06 0.09 -3.53	42.58 0.34 -3.92	37.88 0.59 -2.54
CHAT_HIGH_FALL_HYD 323578	45.16 0.54 -10.98	42.17 0.51 -11.87	32.54 0.51 -2.29	32.48 0.54 -3.51	33.02 0.55 -3.35	37.35 0.59 -5.46	50.92 0.92 -9.83	54.00 1.01 -8.92	51.49 1.03 -9.19	48.69 1.06 -9.84	39.34 0.96 -1.61	39.35 0.92 -1.60	41.51 0.89 -2.01	45.25 0.92 -4.55	47.95 0.99 -5.89	54.14 1.11 -8.72	57.23 1.25 -7.94	65.99 1.34 -10.95	71.29 1.45 -9.37	65.92 1.23 -6.33	57.98 1.08 -7.72	53.53 1.00 -9.08	49.17 0.77 -10.09	41.84 0.56 -6.53
CHAUTAUQUA___LFGE 323629	34.51 0.87 0.00	30.69 0.89 0.00	30.28 0.54 0.00	28.71 0.28 0.00	29.34 0.23 0.00	32.02 0.72 0.00	41.10 0.16 -0.78	44.81 -0.22 -0.95	41.43 -0.79 -0.95	38.57 -0.45 -1.24	38.46 0.48 -1.21	38.17 0.19 -1.15	40.02 0.31 -1.10	42.10 1.39 -0.91	43.37 1.35 -0.93	46.53 1.11 -1.12	51.27 1.30 -1.93	58.14 2.31 -2.13	66.77 3.44 -2.85	63.78 2.74 -2.68	52.87 1.92 -1.78	46.65 1.39 -1.81	39.74 0.65 -0.78	37.72 1.57 -1.40
CHERRYST_13_KV_LD 356241	35.81 1.75 -0.42	31.46 1.49 -0.18	31.28 1.37 -0.17	29.73 1.31 0.00	30.60 1.46 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.38 3.09 -1.02	42.65 3.10 -1.76	40.68 3.20 -0.71	41.00 3.39 -0.79	43.05 3.40 -1.04	44.00 3.26 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.40 3.14 -0.78	61.98 2.98 -0.64	52.14 2.51 -0.46	46.78 2.39 -0.94	41.40 2.41 -0.67	37.05 1.91 -0.38



CHESTROR_138KV_BK263 355645	35.13 1.14 -0.35	30.96 1.01 -0.15	30.83 0.95 -0.14	29.31 0.88 0.00	30.10 0.96 -0.02	32.51 1.06 -0.14	42.31 1.57 -0.58	46.72 1.81 -0.84	43.96 1.86 -0.84	41.05 1.81 -1.45	39.20 1.84 -0.58	39.43 1.95 -0.65	41.48 2.01 -0.86	42.44 1.87 -0.78	43.78 1.85 -0.85	47.18 1.91 -0.97	50.64 1.83 -0.77	55.76 1.83 -0.24	62.87 1.75 -0.65	60.58 1.69 -0.53	51.03 1.48 -0.38	45.61 1.39 -0.77	40.40 1.53 -0.55	36.32 1.25 -0.32
CH_MIDHUDSON___DRP 24192	35.35 1.45 -0.27	31.19 1.28 -0.11	31.04 1.19 -0.11	29.62 1.19 0.00	30.35 1.22 -0.02	32.73 1.31 -0.11	42.58 1.97 -0.45	46.98 2.25 -0.66	44.23 2.31 -0.65	41.15 2.23 -1.13	39.51 2.28 -0.46	39.73 2.39 -0.50	41.75 2.47 -0.67	42.71 2.31 -0.61	44.00 2.26 -0.66	47.41 2.35 -0.75	50.90 2.26 -0.60	56.19 2.31 -0.18	63.27 2.30 -0.50	61.05 2.28 -0.41	51.39 1.92 -0.29	45.83 1.78 -0.60	40.58 1.84 -0.43	36.50 1.49 -0.25
CH_MISC_IPPS 23765	35.63 1.68 -0.31	31.42 1.49 -0.13	31.23 1.37 -0.12	29.79 1.36 0.00	30.53 1.40 -0.02	32.93 1.50 -0.13	43.01 2.33 -0.52	47.48 2.64 -0.76	44.67 2.64 -0.76	41.59 2.49 -1.31	39.80 2.50 -0.53	39.99 2.58 -0.59	42.09 2.70 -0.78	43.04 2.55 -0.70	44.48 2.63 -0.77	47.98 2.79 -0.88	51.57 2.83 -0.70	56.86 2.95 -0.21	64.01 2.96 -0.58	61.81 2.97 -0.48	52.02 2.51 -0.34	46.41 2.26 -0.70	41.00 2.18 -0.50	36.81 1.77 -0.29
CH_RES_BVR_FALLS 23983	30.88 -0.20 2.56	26.82 -0.21 2.77	28.97 -0.24 0.53	27.32 -0.28 0.82	28.01 -0.32 0.78	29.68 -0.34 1.27	37.47 -0.40 2.29	41.60 -0.40 2.08	38.84 -0.29 2.14	35.34 -0.15 2.29	36.25 -0.15 0.38	36.34 -0.11 0.37	37.99 -0.15 0.47	38.57 -0.16 1.06	39.55 -0.16 1.37	42.10 -0.18 2.03	46.00 -0.19 1.85	50.88 -0.27 2.55	57.98 -0.30 2.18	56.54 -0.35 1.48	47.08 -0.29 1.80	41.08 -0.26 2.12	35.69 -0.27 2.35	32.95 -0.28 1.52
CH_RES_NIAGARA 23895	33.13 -0.50 0.00	29.65 -0.15 0.00	29.38 -0.36 0.00	27.88 -0.54 0.00	28.59 -0.52 0.00	30.74 -0.56 0.00	39.35 -1.57 -0.75	42.21 -2.78 -0.92	39.33 -2.85 -0.91	36.75 -2.23 -1.19	36.61 -1.32 -1.16	35.99 -1.95 -1.11	37.89 -1.78 -1.06	39.63 -1.03 -0.88	41.61 -0.37 -0.89	44.05 -1.33 -1.07	48.79 -1.10 -1.85	55.37 -0.38 -2.05	63.39 0.18 -2.74	60.65 -0.29 -2.58	50.20 -0.69 -1.72	44.36 -0.83 -1.74	37.45 -1.61 -0.75	36.83 0.73 -1.35
CH_RES_SYRACUSE 23985	35.55 0.10 -1.81	31.81 0.06 -1.96	30.18 0.06 -0.38	29.03 0.03 -0.58	29.69 0.03 -0.55	32.32 0.13 -0.90	43.66 0.04 -3.46	48.00 0.04 -3.88	45.11 0.00 -3.85	42.36 -0.11 -4.69	40.05 -0.04 -3.32	39.93 -0.07 -3.17	41.72 0.00 -3.11	42.97 0.16 -3.02	44.52 0.16 -3.28	48.77 0.27 -4.20	54.46 0.29 -6.12	60.88 0.43 -6.75	69.49 0.73 -8.29	66.44 0.70 -7.38	55.20 0.54 -5.49	49.48 0.26 -5.77	41.89 0.08 -3.51	39.32 0.17 -4.40
CLINTON_WT_PWR 323605	38.44 0.54 -4.27	34.95 0.54 -4.61	31.17 0.54 -0.89	30.36 0.57 -1.36	31.00 0.58 -1.30	34.05 0.63 -2.12	44.31 0.32 -3.82	47.67 0.13 -3.47	45.09 0.25 -3.57	42.25 0.64 -3.83	37.99 0.59 -0.63	38.00 0.55 -0.62	39.89 0.50 -0.78	42.08 0.52 -1.77	43.94 0.57 -2.29	47.92 0.22 -3.39	51.37 0.24 -3.08	58.22 0.27 -4.25	64.29 0.18 -3.64	60.88 0.06 -2.46	52.22 0.05 -3.00	47.06 0.09 -3.53	42.58 0.34 -3.92	37.88 0.59 -2.54
CLINTON___LFGE 323618	41.53 1.28 -6.61	38.10 1.16 -7.15	32.28 1.16 -1.38	31.73 1.19 -2.11	32.35 1.22 -2.02	35.90 1.31 -3.29	47.05 0.96 -5.92	50.10 0.66 -5.37	47.58 0.78 -5.53	45.03 1.32 -5.93	39.00 1.25 -0.97	38.97 1.18 -0.96	40.98 1.16 -1.21	43.72 1.19 -2.74	45.90 1.27 -3.54	50.36 0.80 -5.25	53.73 0.91 -4.78	61.26 0.97 -6.59	67.14 1.03 -5.64	62.93 0.76 -3.81	54.51 0.69 -4.65	49.52 0.61 -5.46	45.30 0.92 -6.07	40.04 1.35 -3.93
COBBLENY_34_KV_TB1 80064	34.11 0.47 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.57 0.14 0.00	29.32 0.20 0.00	31.61 0.31 0.00	40.54 -0.40 -0.78	44.01 -1.01 -0.95	40.90 -1.32 -0.95	38.12 -0.91 -1.24	37.87 -0.11 -1.21	37.36 -0.63 -1.15	39.25 -0.46 -1.10	40.98 0.28 -0.91	43.08 1.07 -0.93	45.78 0.35 -1.12	50.74 0.77 -1.93	57.49 1.66 -2.13	65.86 2.54 -2.85	63.08 2.04 -2.68	52.09 1.13 -1.78	45.95 0.70 -1.81	38.82 -0.27 -0.78	37.23 1.08 -1.40
COFFEEN___115KV_TB3 355620	53.63 1.31 -18.68	51.03 1.04 -20.19	34.50 0.86 -3.90	34.97 0.57 -5.97	35.51 0.70 -5.70	41.58 1.00 -9.28	59.67 1.49 -18.02	62.81 2.03 -16.71	59.93 1.49 -17.18	57.38 0.83 -18.76	42.14 0.66 -4.70	42.16 0.74 -4.59	44.83 1.00 -5.21	50.00 0.99 -9.21	53.55 0.94 -11.52	62.46 1.51 -16.65	66.59 1.92 -16.62	78.41 2.52 -22.19	84.62 3.45 -20.71	77.69 4.09 -15.25	68.29 3.00 -16.11	64.47 2.56 -18.46	58.69 1.92 -18.46	49.81 1.60 -13.46
COLDSPRG_115KV_BK1 355956	34.71 1.08 0.00	30.90 1.10 0.00	30.57 0.83 0.00	28.85 0.43 0.00	29.72 0.61 0.00	32.27 0.97 0.00	41.71 0.76 -0.79	45.57 0.53 -0.96	42.02 0.21 -0.96	39.19 0.15 -1.26	38.92 0.92 -1.23	38.51 0.52 -1.17	40.38 0.66 -1.12	42.07 1.35 -0.92	44.32 2.30 -0.94	46.86 1.42 -1.13	51.96 1.97 -1.95	58.86 3.01 -2.15	67.46 4.11 -2.88	64.51 3.44 -2.71	53.24 2.26 -1.80	47.06 1.78 -1.83	39.79 0.69 -0.79	37.95 1.77 -1.42
COLONIE_LFGE___ 323577	34.09 0.98 0.52	30.41 0.83 0.22	30.37 0.83 0.21	29.28 0.85 0.00	29.92 0.84 0.04	32.02 0.94 0.21	40.62 1.32 0.87	44.31 1.50 1.26	41.20 1.20 1.26	36.66 1.06 2.18	36.59 0.70 0.88	36.55 0.70 0.97	38.01 0.70 1.29	39.26 0.63 1.17	40.55 0.74 1.27	43.74 0.89 1.45	48.04 1.15 1.16	54.79 1.45 0.35	61.13 1.63 0.97	59.14 1.58 0.80	49.94 1.33 0.56	43.51 1.21 1.16	38.63 1.15 0.83	35.15 0.87 0.48
COOPERNY_115KV_TB1 80082	34.64 0.77 -0.23	30.58 0.69 -0.10	30.49 0.65 -0.09	29.05 0.63 0.00	29.80 0.67 -0.02	32.11 0.72 -0.10	41.64 1.08 -0.39	45.92 1.28 -0.56	43.11 1.28 -0.56	40.01 1.25 -0.97	38.45 1.29 -0.39	38.62 1.36 -0.43	40.58 1.39 -0.58	41.63 1.31 -0.52	42.97 1.31 -0.57	46.29 1.33 -0.65	49.86 1.30 -0.52	55.09 1.24 -0.16	62.11 1.21 -0.43	59.88 1.17 -0.36	50.46 1.03 -0.25	44.97 1.00 -0.52	39.76 1.07 -0.37	35.84 0.87 -0.21
COPENHAGEN_WT_PWR 323753	52.31 1.04 -17.63	49.65 0.80 -19.05	34.05 0.63 -3.68	34.46 0.40 -5.64	34.95 0.46 -5.38	40.81 0.75 -8.76	58.39 1.08 -17.14	61.54 1.54 -15.93	58.70 1.07 -16.36	56.26 0.57 -17.91	41.85 0.44 -4.64	41.87 0.52 -4.52	44.48 0.77 -5.10	49.43 0.80 -8.84	52.85 0.74 -11.02	61.35 1.15 -15.89	65.49 1.44 -16.00	76.88 1.88 -21.30	83.22 2.72 -20.02	76.41 3.21 -14.84	67.04 2.36 -15.51	63.17 2.00 -17.72	57.40 1.53 -17.55	48.94 1.25 -12.93
CORNELL_____ 23752	34.41 0.77 0.00	30.48 0.69 0.00	30.43 0.68 0.00	28.99 0.57 0.00	29.75 0.64 0.00	32.08 0.78 0.00	42.31 0.92 -1.22	46.55 0.97 -1.51	43.51 0.74 -1.50	40.20 0.45 -1.96	39.20 0.51 -1.91	39.02 0.37 -1.83	40.82 0.46 -1.74	41.87 0.64 -1.44	43.41 0.86 -1.47	47.14 1.06 -1.77	52.39 1.30 -3.05	58.88 1.83 -3.36	67.38 2.42 -4.50	64.98 2.39 -4.22	53.85 1.87 -2.81	47.60 1.30 -2.85	40.38 0.84 -1.23	37.97 1.01 -2.21



CORONA_69_KV_TB1 355595	35.88 1.82 -0.42	31.43 1.46 -0.18	31.04 1.13 -0.17	29.45 1.02 0.00	30.39 1.25 -0.03	32.76 1.28 -0.17	42.95 2.09 -0.70	47.16 2.07 -1.02	44.76 2.48 -1.02	42.49 2.95 -1.76	40.79 3.31 -0.71	41.05 3.42 -0.80	43.09 3.44 -1.04	43.72 2.98 -0.94	44.58 2.46 -1.03	47.88 2.39 -1.18	51.28 2.31 -0.93	56.23 2.26 -0.28	63.55 2.30 -0.78	61.16 2.16 -0.64	51.44 1.82 -0.45	46.12 1.74 -0.93	41.59 2.61 -0.67	37.19 2.05 -0.38
CORTLAND_115KV_TB3 80093	34.11 0.47 0.00	30.21 0.42 0.00	30.16 0.42 0.00	28.77 0.34 0.00	29.52 0.41 0.00	31.77 0.47 0.00	41.93 0.52 -1.24	46.07 0.48 -1.52	43.15 0.37 -1.51	39.95 0.19 -1.97	38.99 0.29 -1.92	38.85 0.18 -1.84	40.63 0.27 -1.75	41.68 0.44 -1.45	43.14 0.58 -1.48	46.75 0.66 -1.78	51.92 0.82 -3.06	58.22 1.13 -3.40	66.53 1.51 -4.55	64.09 1.46 -4.27	53.15 1.13 -2.84	47.11 0.78 -2.88	40.01 0.46 -1.24	37.65 0.66 -2.24
COXSACKIE___GT 23611	36.29 2.66 0.00	32.24 2.44 0.00	32.15 2.41 0.00	30.73 2.30 0.00	31.44 2.33 0.00	33.83 2.53 0.00	43.66 3.49 0.00	47.95 3.88 0.00	43.99 2.72 0.00	39.71 1.93 0.00	38.25 1.47 0.00	38.12 1.29 0.00	40.08 1.47 0.00	40.83 1.03 0.00	42.31 1.23 0.00	46.21 1.90 0.00	50.21 2.16 0.00	57.03 3.33 0.00	64.34 3.87 0.00	62.38 4.02 0.00	52.67 3.49 0.00	46.23 2.78 0.00	40.84 2.53 0.00	37.36 2.61 0.00
CPV_VALLEY___CC1 323721	34.79 0.84 -0.31	30.70 0.77 -0.13	30.55 0.68 -0.12	29.08 0.65 0.00	29.86 0.73 -0.02	32.21 0.78 -0.13	41.96 1.28 -0.51	46.32 1.50 -0.75	43.58 1.57 -0.75	40.63 1.55 -1.29	38.87 1.58 -0.52	39.10 1.69 -0.58	41.07 1.70 -0.77	42.08 1.59 -0.69	43.48 1.65 -0.75	46.85 1.68 -0.86	50.41 1.68 -0.68	55.52 1.61 -0.21	62.56 1.51 -0.57	60.35 1.51 -0.47	50.74 1.23 -0.33	45.35 1.21 -0.69	40.07 1.26 -0.49	36.01 0.97 -0.28
CPV_VALLEY___CC2 323722	34.79 0.84 -0.31	30.70 0.77 -0.13	30.55 0.68 -0.12	29.08 0.65 0.00	29.86 0.73 -0.02	32.21 0.78 -0.13	41.96 1.28 -0.51	46.32 1.50 -0.75	43.58 1.57 -0.75	40.63 1.55 -1.29	38.87 1.58 -0.52	39.10 1.69 -0.58	41.07 1.70 -0.77	42.08 1.59 -0.69	43.48 1.65 -0.75	46.85 1.68 -0.86	50.41 1.68 -0.68	55.52 1.61 -0.21	62.56 1.51 -0.57	60.35 1.51 -0.47	50.74 1.23 -0.33	45.35 1.21 -0.69	40.07 1.26 -0.49	36.01 0.97 -0.28
CRESCENT___HYD 24018	34.09 0.98 0.52	30.41 0.83 0.22	30.37 0.83 0.21	29.28 0.85 0.00	29.92 0.84 0.04	32.02 0.94 0.21	40.62 1.32 0.87	44.31 1.50 1.26	41.20 1.20 1.26	36.66 1.06 2.18	36.59 0.70 0.88	36.55 0.70 0.97	38.01 0.70 1.29	39.26 0.63 1.17	40.55 0.74 1.27	43.74 0.89 1.45	48.04 1.15 1.16	54.79 1.45 0.35	61.13 1.63 0.97	59.14 1.58 0.80	49.94 1.33 0.56	43.51 1.21 1.16	38.63 1.15 0.83	35.15 0.87 0.48
CRICKET___VALLEY_CC1 323756	27.87 0.71 6.48	27.69 0.60 2.70	27.69 0.51 2.56	28.96 0.54 0.00	29.26 0.58 0.43	29.26 0.63 2.66	30.60 1.17 10.73	29.80 1.41 15.68	27.21 1.57 15.63	12.32 1.55 27.02	27.40 1.51 10.88	26.39 1.62 12.06	24.20 1.62 16.03	26.79 1.47 14.48	26.78 1.48 15.78	27.78 1.51 18.04	35.23 1.54 14.35	50.70 1.39 4.39	49.64 1.21 12.03	49.70 1.23 9.89	43.15 0.98 7.01	30.09 1.00 14.36	29.06 1.07 10.32	29.59 0.73 5.89
CRICKET___VALLEY_CC2 323757	27.87 0.71 6.48	27.69 0.60 2.70	27.69 0.51 2.56	28.96 0.54 0.00	29.26 0.58 0.43	29.26 0.63 2.66	30.60 1.17 10.73	29.80 1.41 15.68	27.21 1.57 15.63	12.32 1.55 27.02	27.40 1.51 10.88	26.39 1.62 12.06	24.20 1.62 16.03	26.79 1.47 14.48	26.78 1.48 15.78	27.78 1.51 18.04	35.23 1.54 14.35	50.70 1.39 4.39	49.64 1.21 12.03	49.70 1.23 9.89	43.15 0.98 7.01	30.09 1.00 14.36	29.06 1.07 10.32	29.59 0.73 5.89
CRICKET___VALLEY_CC3 323758	27.87 0.71 6.48	27.69 0.60 2.70	27.69 0.51 2.56	28.96 0.54 0.00	29.26 0.58 0.43	29.26 0.63 2.66	30.60 1.17 10.73	29.80 1.41 15.68	27.21 1.57 15.63	12.32 1.55 27.02	27.40 1.51 10.88	26.39 1.62 12.06	24.20 1.62 16.03	26.79 1.47 14.48	26.78 1.48 15.78	27.78 1.51 18.04	35.23 1.54 14.35	50.70 1.39 4.39	49.64 1.21 12.03	49.70 1.23 9.89	43.15 0.98 7.01	30.09 1.00 14.36	29.06 1.07 10.32	29.59 0.73 5.89
CRUCIBLE_METL_DRP 24180	35.52 0.07 -1.81	31.81 0.06 -1.96	30.18 0.06 -0.38	29.03 0.03 -0.58	29.72 0.06 -0.55	32.29 0.09 -0.90	43.62 0.00 -3.46	48.00 0.04 -3.88	45.11 0.00 -3.85	42.36 -0.11 -4.69	40.05 -0.04 -3.32	39.89 -0.11 -3.17	41.68 -0.04 -3.11	42.89 0.08 -3.02	44.52 0.16 -3.28	48.73 0.22 -4.20	54.45 0.29 -6.12	60.88 0.43 -6.75	69.42 0.67 -8.29	66.38 0.64 -7.38	55.15 0.49 -5.49	49.43 0.22 -5.77	41.82 0.00 -3.51	39.32 0.17 -4.40
DAHOWA___HYDRO 323763	34.63 1.45 0.45	30.83 1.22 0.19	30.81 1.25 0.18	29.65 1.22 0.00	30.30 1.22 0.03	32.52 1.41 0.19	41.14 1.73 0.75	44.83 1.85 1.09	41.13 0.95 1.09	36.59 0.68 1.88	36.09 0.07 0.76	35.95 -0.04 0.84	37.53 0.04 1.12	38.87 0.08 1.01	40.15 0.16 1.10	43.59 0.53 1.25	48.15 1.11 1.00	55.43 2.04 0.31	62.29 2.66 0.84	60.36 2.69 0.69	50.90 2.21 0.49	44.32 1.87 1.00	39.32 1.73 0.72	35.63 1.29 0.41
DANC___LFGE 323619	45.99 0.51 -11.85	42.99 0.39 -12.81	32.48 0.27 -2.47	32.33 0.11 -3.79	32.90 0.18 -3.62	37.53 0.34 -5.89	52.97 0.52 -12.29	56.44 0.75 -11.61	53.63 0.45 -11.91	51.13 0.11 -13.23	41.12 0.07 -4.27	41.08 0.11 -4.14	43.36 0.27 -4.48	46.97 0.36 -6.82	49.67 0.29 -8.30	56.55 0.49 -11.75	61.32 0.67 -12.60	71.09 0.97 -16.42	78.19 1.45 -16.27	72.79 1.81 -12.62	62.63 1.28 -12.18	58.23 1.09 -13.69	51.68 0.81 -12.57	45.53 0.69 -10.08
DANSKAMMER___1 23586	35.63 1.68 -0.31	31.42 1.49 -0.13	31.23 1.37 -0.12	29.79 1.36 0.00	30.53 1.40 -0.02	32.93 1.50 -0.13	43.01 2.33 -0.52	47.48 2.64 -0.76	44.67 2.64 -0.76	41.59 2.49 -1.31	39.80 2.50 -0.53	39.99 2.58 -0.59	42.09 2.70 -0.78	43.04 2.55 -0.70	44.48 2.63 -0.77	47.98 2.79 -0.88	51.57 2.83 -0.70	56.86 2.95 -0.21	64.01 2.96 -0.58	61.81 2.97 -0.48	52.02 2.51 -0.34	46.41 2.26 -0.70	41.00 2.18 -0.50	36.81 1.77 -0.29
DANSKAMMER___2 23589	35.63 1.68 -0.31	31.42 1.49 -0.13	31.23 1.37 -0.12	29.79 1.36 0.00	30.53 1.40 -0.02	32.93 1.50 -0.13	43.01 2.33 -0.52	47.48 2.64 -0.76	44.67 2.64 -0.76	41.59 2.49 -1.31	39.80 2.50 -0.53	39.99 2.58 -0.59	42.09 2.70 -0.78	43.04 2.55 -0.70	44.48 2.63 -0.77	47.98 2.79 -0.88	51.57 2.83 -0.70	56.86 2.95 -0.21	64.01 2.96 -0.58	61.81 2.97 -0.48	52.02 2.51 -0.34	46.41 2.26 -0.70	41.00 2.18 -0.50	36.81 1.77 -0.29
DANSKAMMER___3 23590	35.63 1.68 -0.31	31.42 1.49 -0.13	31.23 1.37 -0.12	29.79 1.36 0.00	30.53 1.40 -0.02	32.93 1.50 -0.13	43.01 2.33 -0.52	47.48 2.64 -0.76	44.67 2.64 -0.76	41.59 2.49 -1.31	39.80 2.50 -0.53	39.99 2.58 -0.59	42.09 2.70 -0.78	43.04 2.55 -0.70	44.48 2.63 -0.77	47.98 2.79 -0.88	51.57 2.83 -0.70	56.86 2.95 -0.21	64.01 2.96 -0.58	61.81 2.97 -0.48	52.02 2.51 -0.34	46.41 2.26 -0.70	41.00 2.18 -0.50	36.81 1.77 -0.29



DANSKAMMER___4 23591	35.63 1.68 -0.31	31.42 1.49 -0.13	31.23 1.37 -0.12	29.79 1.36 0.00	30.53 1.40 -0.02	32.93 1.50 -0.13	43.01 2.33 -0.52	47.48 2.64 -0.76	44.67 2.64 -0.76	41.59 2.49 -1.31	39.80 2.50 -0.53	39.99 2.58 -0.59	42.09 2.70 -0.78	43.04 2.55 -0.70	44.48 2.63 -0.77	47.98 2.79 -0.88	51.57 2.83 -0.70	56.86 2.95 -0.21	64.01 2.96 -0.58	61.81 2.97 -0.48	52.02 2.51 -0.34	46.41 2.26 -0.70	41.00 2.18 -0.50	36.81 1.77 -0.29
DANSKAMMER___DIESEL 23592	35.63 1.68 -0.31	31.42 1.49 -0.13	31.26 1.40 -0.12	29.82 1.39 0.00	30.56 1.43 -0.02	32.96 1.53 -0.13	42.94 2.25 -0.52	47.39 2.56 -0.76	44.58 2.56 -0.76	41.52 2.42 -1.31	39.77 2.46 -0.53	39.95 2.54 -0.59	42.05 2.66 -0.78	43.00 2.51 -0.70	44.31 2.46 -0.77	47.80 2.61 -0.88	51.29 2.55 -0.70	56.60 2.68 -0.21	63.77 2.72 -0.58	61.52 2.68 -0.48	51.83 2.31 -0.34	46.23 2.09 -0.70	40.92 2.11 -0.50	36.81 1.77 -0.29
DARBY___SOLAR 323810	34.52 1.35 0.46	30.74 1.13 0.19	30.72 1.16 0.18	29.56 1.14 0.00	30.22 1.13 0.03	32.39 1.28 0.19	41.05 1.65 0.76	44.72 1.76 1.12	41.10 0.95 1.11	36.58 0.72 1.93	36.15 0.15 0.78	36.00 0.04 0.86	37.55 0.08 1.14	38.88 0.12 1.03	40.16 0.21 1.12	43.56 0.53 1.29	48.08 1.06 1.02	55.26 1.88 0.31	62.03 2.42 0.86	60.11 2.45 0.70	50.69 2.02 0.50	44.12 1.69 1.02	39.15 1.57 0.74	35.55 1.22 0.42
DASHVILLE___HYD 23610	35.55 1.72 -0.20	31.40 1.52 -0.08	31.25 1.43 -0.08	29.68 1.25 0.00	30.44 1.31 -0.01	32.94 1.56 -0.08	42.74 2.25 -0.33	47.10 2.56 -0.48	44.22 2.48 -0.47	40.95 2.34 -0.82	39.46 2.35 -0.33	39.66 2.47 -0.37	41.68 2.59 -0.49	42.66 2.43 -0.44	43.94 2.38 -0.48	47.38 2.53 -0.55	50.93 2.45 -0.44	56.41 2.58 -0.13	63.43 2.60 -0.36	61.29 2.63 -0.30	51.65 2.26 -0.21	45.88 2.00 -0.44	40.66 2.03 -0.31	36.67 1.74 -0.18
DELAWARE___LFGE 323621	34.44 0.81 0.00	30.51 0.72 0.00	30.51 0.77 0.00	29.16 0.74 0.00	29.87 0.76 0.00	32.08 0.78 0.00	41.73 1.08 -0.48	45.81 1.15 -0.59	42.84 0.99 -0.59	39.42 0.87 -0.77	38.37 0.85 -0.75	38.39 0.85 -0.71	40.22 0.93 -0.68	41.27 0.92 -0.56	42.60 0.94 -0.58	46.06 1.06 -0.69	50.44 1.20 -1.19	56.31 1.29 -1.32	63.75 1.51 -1.77	61.60 1.58 -1.67	51.56 1.28 -1.11	45.75 1.17 -1.12	39.83 1.03 -0.48	36.56 0.94 -0.87
DERFIELD_115KV_TB7 355931	35.55 0.13 -1.78	31.84 0.12 -1.92	30.23 0.12 -0.37	29.11 0.11 -0.57	29.77 0.12 -0.54	32.31 0.13 -0.88	41.96 0.20 -1.59	45.74 0.22 -1.45	42.96 0.21 -1.49	39.53 0.15 -1.60	37.18 0.15 -0.26	37.23 0.15 -0.26	39.09 0.15 -0.33	40.69 0.16 -0.74	42.20 0.16 -0.95	45.90 0.18 -1.41	49.52 0.19 -1.29	55.69 0.21 -1.77	62.23 0.24 -1.52	59.68 0.29 -1.03	50.67 0.25 -1.25	45.14 0.22 -1.47	40.14 0.19 -1.63	35.95 0.14 -1.06
DOGLEVILLE___HYD 23807	35.62 0.20 -1.78	31.87 0.15 -1.92	30.26 0.15 -0.37	29.08 0.09 -0.57	29.77 0.12 -0.54	32.34 0.16 -0.88	42.04 0.28 -1.59	45.87 0.35 -1.45	43.04 0.29 -1.49	39.61 0.23 -1.60	37.26 0.22 -0.26	37.34 0.26 -0.26	39.21 0.27 -0.33	40.73 0.20 -0.74	42.20 0.16 -0.95	46.03 0.31 -1.41	49.71 0.38 -1.29	55.74 0.27 -1.77	62.35 0.36 -1.52	59.85 0.47 -1.03	50.72 0.30 -1.25	45.23 0.30 -1.47	40.18 0.23 -1.63	35.99 0.17 -1.06
DUNKIRK___115KV_TB_200 55889	34.41 0.77 0.00	30.66 0.86 0.00	30.34 0.59 0.00	28.68 0.26 0.00	29.52 0.41 0.00	31.96 0.66 0.00	41.10 0.16 -0.78	44.67 -0.35 -0.95	41.35 -0.87 -0.95	38.57 -0.45 -1.24	38.35 0.37 -1.21	37.83 -0.15 -1.15	39.75 0.04 -1.10	41.50 0.80 -0.91	43.61 1.60 -0.93	46.36 0.93 -1.12	51.36 1.39 -1.92	58.24 2.42 -2.13	66.71 3.39 -2.85	63.84 2.80 -2.68	52.73 1.77 -1.78	46.47 1.22 -1.81	39.28 0.19 -0.78	37.62 1.46 -1.40
DUNKIRK___1 23563	34.41 0.77 0.00	30.66 0.86 0.00	30.34 0.59 0.00	28.68 0.26 0.00	29.52 0.41 0.00	31.96 0.66 0.00	41.10 0.16 -0.78	44.67 -0.35 -0.95	41.35 -0.87 -0.95	38.57 -0.45 -1.24	38.35 0.37 -1.21	37.83 -0.15 -1.15	39.75 0.04 -1.10	41.50 0.80 -0.91	43.61 1.60 -0.93	46.36 0.93 -1.12	51.36 1.39 -1.92	58.24 2.42 -2.13	66.71 3.39 -2.85	63.84 2.80 -2.68	52.73 1.77 -1.78	46.47 1.22 -1.81	39.28 0.19 -0.78	37.62 1.46 -1.40
DUNKIRK___2 23564	34.41 0.77 0.00	30.66 0.86 0.00	30.34 0.59 0.00	28.68 0.26 0.00	29.52 0.41 0.00	31.96 0.66 0.00	41.10 0.16 -0.78	44.67 -0.35 -0.95	41.35 -0.87 -0.95	38.57 -0.45 -1.24	38.35 0.37 -1.21	37.83 -0.15 -1.15	39.75 0.04 -1.10	41.50 0.80 -0.91	43.61 1.60 -0.93	46.36 0.93 -1.12	51.36 1.39 -1.92	58.24 2.42 -2.13	66.71 3.39 -2.85	63.84 2.80 -2.68	52.73 1.77 -1.78	46.47 1.22 -1.81	39.28 0.19 -0.78	37.62 1.46 -1.40
DUNKIRK___3 23565	34.21 0.57 0.00	30.51 0.72 0.00	30.22 0.48 0.00	28.57 0.14 0.00	29.40 0.29 0.00	31.77 0.47 0.00	40.82 -0.12 -0.78	44.32 -0.71 -0.95	41.06 -0.71 -0.95	38.27 -0.76 -1.24	38.06 0.07 -1.21	37.54 -0.44 -1.15	39.48 -0.23 -1.10	41.18 0.48 -0.91	43.28 1.27 -0.93	46.00 0.58 -1.12	50.93 0.96 -1.92	57.76 1.93 -2.13	66.10 2.78 -2.85	63.26 2.22 -2.68	52.28 1.33 -1.78	46.12 0.87 -1.80	38.98 -0.11 -0.78	37.37 1.22 -1.40
DUNKIRK___4 23566	34.21 0.57 0.00	30.51 0.72 0.00	30.22 0.48 0.00	28.57 0.14 0.00	29.40 0.29 0.00	31.77 0.47 0.00	40.82 -0.12 -0.78	44.32 -0.71 -0.95	41.06 -0.76 -0.95	38.27 -0.76 -1.24	38.06 0.07 -1.21	37.54 -0.44 -1.15	39.48 -0.23 -1.10	41.18 0.48 -0.91	43.28 1.27 -0.93	46.00 0.58 -1.12	50.93 0.96 -1.92	57.76 1.93 -2.13	66.10 2.78 -2.85	63.26 2.22 -2.68	52.28 1.33 -1.78	46.12 0.87 -1.80	38.98 -0.11 -0.78	37.37 1.22 -1.40
DUNWOODS_138_KV_38W08_REV_LBMP_I 345000	35.57 1.51 -0.42	31.28 1.31 -0.18	31.10 1.19 -0.17	29.56 1.14 0.00	30.39 1.25 -0.03	32.82 1.35 -0.17	42.99 2.13 -0.70	47.61 2.51 -1.02	44.97 2.68 -1.02	42.23 2.68 -1.76	40.24 2.76 -0.71	40.56 2.95 -0.79	42.63 2.97 -1.04	43.56 2.83 -0.94	44.86 2.75 -1.03	48.23 2.75 -1.18	51.72 2.74 -0.93	56.62 2.63 -0.29	63.85 2.60 -0.78	61.51 2.51 -0.64	51.75 2.11 -0.46	46.43 2.04 -0.94	41.05 2.07 -0.67	36.77 1.63 -0.38
E.WALDEN_115_KV_TR_1_REV_LBMP_G 345009	35.28 1.31 -0.33	31.13 1.19 -0.14	30.97 1.10 -0.13	29.48 1.05 0.00	30.27 1.14 -0.02	32.66 1.22 -0.14	42.52 1.81 -0.55	46.99 2.12 -0.80	44.17 2.10 -0.80	41.21 2.04 -1.38	39.43 2.10 -0.56	39.65 2.21 -0.62	41.71 2.28 -0.82	42.64 2.11 -0.74	43.98 2.10 -0.81	47.40 2.17 -0.92	50.89 2.11 -0.73	56.07 2.15 -0.22	63.20 2.12 -0.61	60.91 2.04 -0.50	51.30 1.77 -0.36	45.83 1.65 -0.73	40.60 1.76 -0.53	36.51 1.46 -0.30
E179THST_138_KV_TB4_REV_LBMP_J 345001	35.92 1.85 -0.43	31.53 1.55 -0.18	31.37 1.46 -0.17	29.76 1.34 0.00	30.65 1.51 -0.03	32.91 1.44 -0.17	42.99 2.13 -0.70	47.65 2.56 -1.02	45.09 2.81 -1.02	42.34 2.80 -1.76	40.39 2.91 -0.71	40.74 3.13 -0.79	42.78 3.13 -1.04	43.68 2.94 -0.94	44.90 2.79 -1.03	48.19 2.70 -1.18	51.62 2.64 -0.93	56.40 2.42 -0.29	63.55 2.30 -0.78	61.16 2.16 -0.64	51.55 1.92 -0.46	46.25 1.87 -0.94	41.13 2.15 -0.67	36.98 1.84 -0.38



E179THST_13_KV_LOAD 356214	36.09 2.02 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.87 1.45 0.00	30.77 1.63 -0.03	33.04 1.56 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.99 -1.76	40.57 3.09 -0.71	40.93 3.31 -0.79	42.98 3.32 -1.04	43.88 3.14 -0.94	45.15 3.04 -1.03	48.45 2.97 -1.18	51.91 2.93 -0.93	56.72 2.74 -0.29	63.91 2.66 -0.78	61.51 2.51 -0.64	51.84 2.21 -0.46	46.52 2.13 -0.94	41.32 2.34 -0.67	37.15 2.02 -0.38
EAST HAMPTON___GT 23717	35.34 1.28 -0.42	31.08 1.10 -0.18	30.44 0.54 -0.17	28.88 0.45 0.00	29.78 0.64 -0.03	32.04 0.56 -0.17	41.95 1.08 -0.70	45.97 0.88 -1.01	44.10 1.81 -1.02	42.15 2.61 -1.76	40.35 2.87 -0.71	40.90 3.28 -0.79	42.24 2.59 -1.04	43.12 2.39 -0.94	44.12 2.01 -1.03	47.48 2.00 -1.18	51.23 2.26 -0.93	55.69 1.72 -0.28	62.76 1.51 -0.78	60.28 1.28 -0.64	50.80 1.18 -0.45	45.86 1.48 -0.93	41.55 2.57 -0.67	37.40 2.26 -0.38
EAST RIVER___6 23660	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.83 2.73 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.57 3.09 -0.71	40.89 3.28 -0.79	42.90 3.24 -1.04	43.88 3.14 -0.94	45.32 3.21 -1.03	48.72 3.23 -1.18	52.34 3.36 -0.93	57.21 3.22 -0.29	64.46 3.20 -0.78	62.10 3.09 -0.64	52.28 2.65 -0.46	46.86 2.48 -0.94	41.36 2.38 -0.67	37.01 1.88 -0.38
EAST RIVER___7 23524	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.83 2.73 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.57 3.09 -0.71	40.89 3.28 -0.79	42.90 3.24 -1.04	43.88 3.14 -0.94	45.32 3.21 -1.03	48.72 3.23 -1.18	52.34 3.36 -0.93	57.21 3.22 -0.29	64.46 3.20 -0.78	62.10 3.09 -0.64	52.28 2.65 -0.46	46.86 2.48 -0.94	41.36 2.38 -0.67	37.01 1.88 -0.38
EASTVIEW_138_KV_38W32_REV_LBMP_I 345002	35.50 1.45 -0.42	31.22 1.25 -0.18	31.07 1.16 -0.17	29.53 1.11 0.00	30.36 1.22 -0.03	32.79 1.31 -0.17	42.91 2.05 -0.70	47.52 2.42 -1.02	44.88 2.60 -1.02	42.15 2.61 -1.76	40.17 2.68 -0.71	40.45 2.84 -0.78	42.51 2.86 -1.04	43.44 2.71 -0.94	44.74 2.63 -1.03	48.14 2.66 -1.17	51.62 2.64 -0.93	56.51 2.52 -0.29	63.79 2.54 -0.78	61.40 2.39 -0.64	51.65 2.02 -0.46	46.34 1.96 -0.93	40.98 1.99 -0.67	36.70 1.56 -0.38
EAST_HAMPTON___DIESEL 23722	35.27 1.21 -0.42	31.04 1.07 -0.18	30.41 0.51 -0.17	28.82 0.40 0.00	29.75 0.61 -0.03	31.97 0.50 -0.17	41.87 1.00 -0.70	45.92 0.84 -1.01	44.02 1.73 -1.02	42.08 2.53 -1.76	40.28 2.79 -0.71	40.82 3.20 -0.79	42.16 2.51 -1.04	43.04 2.31 -0.94	44.04 1.93 -1.03	47.39 1.90 -1.18	51.13 2.16 -0.93	55.59 1.61 -0.28	62.64 1.39 -0.78	60.16 1.17 -0.64	50.75 1.13 -0.45	45.77 1.39 -0.93	41.51 2.53 -0.67	37.36 2.23 -0.38
EAST_POINT___SOLAR 323840	35.69 2.29 0.24	31.61 1.91 0.10	31.64 1.99 0.09	30.30 1.88 0.00	31.08 1.98 0.02	33.46 2.25 0.10	42.70 2.93 0.39	46.32 2.82 0.58	41.84 1.15 0.58	36.94 0.15 0.99	35.56 -0.81 0.40	35.35 -1.03 0.44	37.06 -0.96 0.59	38.42 -0.84 0.53	39.76 -0.74 0.58	43.69 0.04 0.66	48.62 1.11 0.53	56.54 3.01 0.16	64.68 4.66 0.44	63.07 5.07 0.36	53.09 4.18 0.26	46.40 3.48 0.53	40.84 2.91 0.38	36.87 2.33 0.22
EAST_PULASKI___ESR 323781	39.85 0.03 -6.18	36.48 0.00 -6.68	30.97 -0.06 -1.29	30.29 -0.11 -1.98	30.88 -0.12 -1.89	34.37 0.00 -3.07	47.95 -0.04 -7.83	51.88 0.04 -7.76	49.10 -0.08 -7.91	46.64 -0.26 -9.12	40.91 -0.26 -4.39	40.80 -0.26 -4.22	42.72 -0.19 -4.31	44.90 -0.08 -5.18	46.99 -0.08 -5.99	52.30 -0.13 -8.13	57.97 -0.10 -10.02	66.16 0.00 -12.46	74.47 0.30 -13.69	70.30 0.46 -11.48	59.03 0.25 -9.61	54.02 0.13 -10.44	46.40 0.12 -7.98	42.71 0.14 -7.82
EAST_RIVER___1 323558	35.67 1.61 -0.42	31.34 1.37 -0.18	31.13 1.22 -0.17	29.62 1.19 0.00	30.45 1.31 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.92 2.82 -1.02	45.34 3.05 -1.02	42.57 3.02 -1.76	40.57 3.09 -0.71	40.85 3.24 -0.79	42.90 3.24 -1.04	43.84 3.11 -0.94	45.27 3.16 -1.03	48.72 3.23 -1.18	52.29 3.31 -0.93	57.21 3.22 -0.29	64.46 3.20 -0.78	62.04 3.03 -0.64	52.19 2.56 -0.46	46.82 2.43 -0.94	41.32 2.34 -0.67	36.94 1.81 -0.38
EAST_RIVER___2 323559	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.83 2.73 -1.02	45.30 3.01 -1.02	42.53 2.98 -1.76	40.57 3.09 -0.71	40.89 3.28 -0.79	42.90 3.24 -1.04	43.88 3.14 -0.94	45.32 3.21 -1.03	48.72 3.23 -1.18	52.34 3.36 -0.93	57.21 3.22 -0.29	64.46 3.20 -0.78	62.10 3.09 -0.64	52.28 2.65 -0.46	46.86 2.48 -0.94	41.36 2.38 -0.67	37.01 1.88 -0.38
EAST___DELAWARE_HYD 23607	35.76 1.88 -0.24	31.59 1.70 -0.10	31.44 1.60 -0.09	30.02 1.59 0.00	30.70 1.57 -0.02	33.12 1.72 -0.10	43.13 2.57 -0.39	47.60 2.95 -0.57	44.56 2.72 -0.57	41.23 2.45 -0.99	39.60 2.43 -0.40	39.74 2.47 -0.44	41.48 2.28 -0.59	42.47 2.15 -0.53	43.92 2.26 -0.58	47.49 2.52 -0.66	51.11 2.54 -0.53	56.60 2.74 -0.16	63.75 2.84 -0.44	61.64 2.92 -0.36	51.89 2.46 -0.26	46.11 2.13 -0.53	40.76 2.07 -0.38	36.67 1.70 -0.22
EIGHT_POINT___WT_PWR 323820	34.58 0.94 0.00	30.66 0.86 0.00	30.48 0.74 0.00	28.96 0.54 0.00	29.69 0.58 0.00	32.27 0.97 0.00	41.87 0.72 -0.98	45.63 0.35 -1.20	42.34 -0.12 -1.20	39.05 -0.30 -1.57	38.52 0.22 -1.53	38.18 -0.11 -1.46	40.04 0.04 -1.39	41.82 0.87 -1.15	43.20 0.95 -1.17	46.65 0.93 -1.41	51.58 1.11 -2.43	58.53 2.15 -2.68	67.44 3.38 -3.59	64.83 3.09 -3.37	53.78 2.36 -2.24	47.33 1.61 -2.27	40.13 0.84 -0.98	38.05 1.53 -1.77
ELBRIDGE_115KV_TB2 80188	35.25 0.00 -1.61	31.54 0.00 -1.74	30.08 0.00 -0.34	28.88 -0.06 -0.52	29.58 -0.03 -0.49	32.10 0.00 -0.80	43.39 -0.12 -3.35	47.61 -0.18 -3.72	44.77 -0.21 -3.71	42.02 -0.30 -4.53	39.87 -0.18 -3.28	39.68 -0.29 -3.14	41.45 -0.23 -3.07	42.66 -0.08 -2.95	44.27 0.00 -3.18	48.42 0.04 -4.06	54.13 0.10 -6.00	60.80 0.32 -6.78	69.38 0.54 -8.37	66.38 0.53 -7.50	55.07 0.39 -5.50	49.34 0.13 -5.76	41.59 -0.11 -3.39	39.26 0.10 -4.40
ELEC_TRO_TEK 24086	35.64 1.58 -0.42	31.22 1.25 -0.18	30.83 0.92 -0.17	29.28 0.85 0.00	30.19 1.05 -0.03	32.57 1.10 -0.17	42.67 1.81 -0.70	46.90 1.81 -1.02	44.60 2.31 -1.02	42.34 2.80 -1.76	40.61 3.13 -0.71	40.87 3.24 -0.80	42.86 3.20 -1.04	43.48 2.75 -0.94	44.37 2.26 -1.03	47.66 2.17 -1.18	51.04 2.07 -0.93	55.80 1.83 -0.28	63.07 1.81 -0.78	60.63 1.63 -0.64	51.00 1.38 -0.45	45.77 1.39 -0.93	41.28 2.30 -0.67	36.95 1.81 -0.38
ELLENBURG_WT_PWR 323604	38.44 0.54 -4.27	34.95 0.54 -4.61	31.17 0.54 -0.89	30.36 0.57 -1.36	31.00 0.58 -1.30	34.05 0.63 -2.12	44.31 0.32 -3.82	47.67 0.13 -3.47	45.09 0.25 -3.57	42.25 0.64 -3.83	37.99 0.59 -0.63	38.00 0.55 -0.62	39.89 0.50 -0.78	42.08 0.52 -1.77	43.94 0.57 -2.29	47.92 0.22 -3.39	51.37 0.24 -3.08	58.22 0.27 -4.25	64.29 0.18 -3.64	60.88 0.06 -2.46	52.22 0.05 -3.00	47.06 0.09 -3.53	42.58 0.34 -3.92	37.88 0.59 -2.54



ELM_ST_23_KV_LD_REV_LBMP_A 345012	33.97 0.34 0.00	30.30 0.51 0.00	30.04 0.30 0.00	28.45 0.03 0.00	29.23 0.12 0.00	31.49 0.19 0.00	40.25 -0.68 -0.76	43.60 -1.41 -0.94	40.51 -1.69 -0.94	37.80 -1.21 -1.22	37.60 -0.37 -1.19	37.04 -0.92 -1.14	38.96 -0.73 -1.08	40.69 0.00 -0.90	42.78 0.78 -0.91	45.36 -0.04 -1.10	50.28 0.34 -1.90	56.98 1.18 -2.10	65.27 2.00 -2.81	62.46 1.46 -2.64	51.62 0.69 -1.76	45.58 0.35 -1.78	38.50 -0.57 -0.77	37.07 0.94 -1.38
EMPIRE_CC_1 323656	33.53 0.44 0.55	30.02 0.45 0.23	29.88 0.36 0.22	28.88 0.45 0.00	29.48 0.41 0.04	31.51 0.44 0.22	39.90 0.64 0.91	43.54 0.79 1.32	40.69 0.74 1.32	36.22 0.72 2.28	36.30 0.44 0.92	36.22 0.41 1.02	37.64 0.39 1.35	38.81 0.24 1.22	40.08 0.33 1.33	43.10 0.31 1.52	47.22 0.38 1.21	53.60 0.27 0.37	59.64 0.18 1.01	57.76 0.23 0.83	48.78 0.20 0.59	42.55 0.31 1.21	37.82 0.38 0.87	34.53 0.28 0.50
EMPIRE_CC_2 323658	33.53 0.44 0.55	30.02 0.45 0.23	29.88 0.36 0.22	28.88 0.45 0.00	29.48 0.41 0.04	31.51 0.44 0.22	39.90 0.64 0.91	43.54 0.79 1.32	40.69 0.74 1.32	36.22 0.72 2.28	36.30 0.44 0.92	36.22 0.41 1.02	37.64 0.39 1.35	38.81 0.24 1.22	40.08 0.33 1.33	43.10 0.31 1.52	47.22 0.38 1.21	53.60 0.27 0.37	59.64 0.18 1.01	57.76 0.23 0.83	48.78 0.20 0.59	42.55 0.31 1.21	37.82 0.38 0.87	34.53 0.28 0.50
ENORWICH_115KV_TB1 80156	35.69 2.05 0.00	31.56 1.76 0.00	31.53 1.78 0.00	29.90 1.48 0.00	30.83 1.72 0.00	33.40 2.10 0.00	43.92 2.81 -0.94	48.58 3.35 -1.16	45.10 2.68 -1.15	41.11 1.81 -1.51	39.90 1.65 -1.47	39.81 1.58 -1.40	41.72 1.78 -1.34	42.77 1.87 -1.11	44.22 2.01 -1.13	48.41 2.75 -1.36	53.75 3.36 -2.34	60.58 4.30 -2.59	69.31 5.38 -3.46	67.39 5.78 -3.25	55.67 4.33 -2.16	49.21 3.56 -2.19	41.86 2.61 -0.95	38.93 2.47 -1.70
ERIE_ST__34_KV_TB1-2 80199	34.04 0.40 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.45 0.03 0.00	29.26 0.15 0.00	31.58 0.28 0.00	40.46 -0.48 -0.77	43.96 -1.06 -0.95	40.77 -1.44 -0.94	38.00 -1.02 -1.23	37.79 -0.18 -1.20	37.31 -0.66 -1.15	39.20 -0.50 -1.09	40.94 0.24 -0.91	43.03 1.03 -0.92	45.68 0.27 -1.11	50.63 0.67 -1.91	57.37 1.56 -2.12	65.72 2.42 -2.83	62.89 1.87 -2.66	51.93 0.98 -1.77	45.77 0.52 -1.79	38.70 -0.38 -0.77	37.09 0.94 -1.40
ERIE_WT_PWR 323693	34.21 0.57 0.00	30.39 0.60 0.00	30.10 0.36 0.00	28.57 0.14 0.00	29.14 0.03 0.00	31.64 0.34 0.00	40.37 -0.56 -0.77	43.92 -1.10 -0.95	40.76 -1.45 -0.94	37.96 -1.06 -1.23	37.83 -0.15 -1.20	37.49 -0.48 -1.15	39.35 -0.35 -1.09	41.45 0.75 -0.90	42.66 0.66 -0.92	45.68 0.27 -1.11	50.39 0.43 -1.91	57.10 1.29 -2.11	65.60 2.30 -2.83	62.71 1.69 -2.66	51.98 1.03 -1.77	45.93 0.69 -1.79	39.09 0.00 -0.77	37.23 1.08 -1.39
ESPRGFLD_115KV_TB1 80157	35.10 1.61 0.15	31.11 1.37 0.06	31.14 1.46 0.06	29.76 1.34 0.00	30.50 1.40 0.01	32.83 1.60 0.06	42.26 2.13 0.04	46.22 2.25 0.10	42.69 1.53 0.10	38.56 1.06 0.29	37.62 0.77 -0.08	37.56 0.70 -0.04	39.31 0.77 0.07	40.50 0.80 0.09	41.87 0.90 0.11	45.53 1.33 0.11	50.06 1.83 -0.19	56.86 2.68 -0.48	64.48 3.51 -0.50	62.54 3.68 -0.50	52.45 2.95 -0.33	46.09 2.48 -0.16	40.32 2.03 0.03	36.77 1.77 -0.25
ETNA_115_KV_TB1_REV_LBMP_C 345029	34.34 0.71 0.00	30.42 0.63 0.00	30.40 0.65 0.00	28.94 0.51 0.00	29.72 0.61 0.00	32.02 0.72 0.00	42.29 0.88 -1.24	46.52 0.93 -1.52	43.45 0.66 -1.52	40.15 0.38 -1.99	39.15 0.44 -1.94	39.01 0.33 -1.85	40.80 0.42 -1.76	41.85 0.60 -1.46	43.39 0.82 -1.49	47.07 0.97 -1.79	52.33 1.20 -3.08	58.81 1.72 -3.40	67.25 2.24 -4.55	64.85 2.22 -4.27	53.74 1.72 -2.84	47.55 1.22 -2.88	40.32 0.77 -1.24	37.93 0.94 -2.24
ETNA____115KV_TB2 80207	34.34 0.71 0.00	30.42 0.63 0.00	30.40 0.65 0.00	28.94 0.51 0.00	29.72 0.61 0.00	32.02 0.72 0.00	42.29 0.88 -1.24	46.52 0.93 -1.52	43.45 0.66 -1.52	40.15 0.38 -1.99	39.15 0.44 -1.94	39.01 0.33 -1.85	40.80 0.42 -1.76	41.85 0.60 -1.46	43.39 0.82 -1.49	47.07 0.97 -1.79	52.33 1.20 -3.08	58.81 1.72 -3.40	67.25 2.24 -4.55	64.85 2.22 -4.27	53.74 1.72 -2.84	47.55 1.22 -2.88	40.32 0.77 -1.24	37.93 0.94 -2.24
EUCLID____115KV_TB2 356179	35.53 -0.27 -2.16	31.90 -0.24 -2.34	29.95 -0.24 -0.45	28.86 -0.26 -0.69	29.51 -0.26 -0.66	32.12 -0.25 -1.08	42.83 -0.44 -3.11	46.59 -0.57 -3.09	43.86 -0.58 -3.17	40.92 -0.57 -3.70	38.35 -0.44 -2.01	38.25 -0.52 -1.93	40.05 -0.50 -1.94	41.62 -0.36 -2.18	43.27 -0.29 -2.48	47.26 -0.35 -3.31	51.99 -0.34 -4.28	58.88 -0.21 -5.40	66.49 -0.12 -6.14	63.53 -0.12 -5.28	53.23 -0.15 -4.20	47.65 -0.30 -4.51	41.05 -0.42 -3.16	37.95 -0.21 -3.40
E_CANADA_CAP_HY 24051	35.40 1.98 0.22	31.37 1.67 0.09	31.41 1.75 0.09	30.07 1.65 0.00	30.81 1.72 0.01	33.18 1.97 0.09	42.38 2.57 0.36	46.15 2.60 0.52	42.19 1.44 0.52	37.64 0.76 0.90	36.56 0.15 0.36	36.42 0.00 0.40	38.15 0.08 0.54	39.47 0.16 0.48	40.84 0.29 0.53	44.64 0.93 0.60	49.24 1.68 0.48	56.61 3.06 0.15	64.36 4.29 0.40	62.46 4.43 0.33	52.53 3.59 0.23	46.01 3.04 0.48	40.53 2.57 0.34	36.61 2.05 0.20
E_CANADA_MHWK_HY 24050	35.62 0.20 -1.78	31.87 0.15 -1.92	30.26 0.15 -0.37	29.08 0.09 -0.57	29.77 0.12 -0.54	32.34 0.16 -0.88	42.04 0.28 -1.59	45.91 0.40 -1.45	43.08 0.33 -1.49	39.61 0.23 -1.60	37.26 0.22 -0.26	37.35 0.26 -0.26	39.21 0.27 -0.33	40.73 0.20 -0.74	42.20 0.16 -0.95	46.03 0.31 -1.41	49.71 0.38 -1.29	55.80 0.32 -1.77	62.41 0.43 -1.52	59.85 0.46 -1.03	50.72 0.30 -1.25	45.23 0.31 -1.47	40.22 0.27 -1.63	35.99 0.17 -1.06
E_FISHKILL__LBMP 23776	35.28 1.21 -0.43	31.05 1.07 -0.18	30.89 0.98 -0.17	29.36 0.94 0.00	30.16 1.02 -0.03	32.57 1.10 -0.18	42.56 1.69 -0.71	47.05 1.94 -1.04	44.36 2.06 -1.03	41.65 2.08 -1.78	39.63 2.13 -0.72	39.91 2.28 -0.80	41.95 2.28 -1.06	42.90 2.15 -0.96	44.18 2.05 -1.04	47.58 2.08 -1.19	51.01 2.02 -0.95	55.92 1.93 -0.29	63.20 1.93 -0.79	60.82 1.81 -0.65	51.21 1.57 -0.46	45.92 1.52 -0.95	40.64 1.65 -0.68	36.43 1.29 -0.39
FALCON__SEABRD_CC1 323796	40.56 1.28 -5.65	37.06 1.16 -6.10	32.11 1.19 -1.18	31.42 1.19 -1.81	32.06 1.22 -1.72	35.42 1.31 -2.81	45.90 0.68 -5.05	48.97 0.31 -4.58	46.45 0.45 -4.72	44.02 1.17 -5.06	38.70 1.10 -0.83	38.68 1.03 -0.82	40.65 1.00 -1.04	43.16 1.03 -2.34	45.22 1.11 -3.03	49.24 0.44 -4.48	52.60 0.48 -4.08	59.81 0.48 -5.63	65.71 0.43 -4.82	61.85 0.23 -3.25	53.39 0.25 -3.97	48.33 0.22 -4.67	44.22 0.73 -5.19	39.47 1.35 -3.36
FALCON__SEABRD_CC2 323797	40.56 1.28 -5.65	37.06 1.16 -6.10	32.11 1.19 -1.18	31.42 1.19 -1.81	32.06 1.22 -1.72	35.42 1.31 -2.81	45.90 0.68 -5.05	48.97 0.31 -4.58	46.45 0.45 -4.72	44.02 1.17 -5.06	38.70 1.10 -0.83	38.68 1.03 -0.82	40.65 1.00 -1.04	43.16 1.03 -2.34	45.22 1.11 -3.03	49.24 0.44 -4.48	52.60 0.48 -4.08	59.81 0.48 -5.63	65.71 0.43 -4.82	61.85 0.23 -3.25	53.39 0.25 -3.97	48.33 0.22 -4.67	44.22 0.73 -5.19	39.47 1.35 -3.36



FAR ROCKAWAY___4 23548	36.38 2.32 -0.42	31.85 1.88 -0.18	31.39 1.49 -0.17	29.79 1.36 0.00	30.74 1.60 -0.03	33.13 1.66 -0.17	43.52 2.65 -0.70	47.82 2.73 -1.02	44.93 2.64 -1.02	42.76 3.21 -1.76	41.12 3.64 -0.71	41.46 3.83 -0.80	43.48 3.82 -1.04	44.12 3.38 -0.94	44.90 2.79 -1.03	48.23 2.75 -1.18	51.71 2.74 -0.93	57.31 3.33 -0.28	64.76 3.51 -0.78	62.27 3.27 -0.64	52.33 2.70 -0.45	46.90 2.52 -0.93	42.24 3.26 -0.67	37.74 2.61 -0.38
FARRAGUT_138_KV_32071_REV_LBMP_J 345003	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.26 2.97 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.94 3.28 -1.04	43.84 3.10 -0.94	45.15 3.04 -1.03	48.50 3.01 -1.18	52.00 3.03 -0.93	56.88 2.90 -0.29	64.15 2.90 -0.78	61.75 2.74 -0.64	51.99 2.36 -0.46	46.65 2.26 -0.94	41.28 2.30 -0.67	36.95 1.81 -0.38
FARRAGUT_138_KV_38B01_REV_LBMP_J 345016	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.26 2.97 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.94 3.28 -1.04	43.84 3.10 -0.94	45.15 3.04 -1.03	48.50 3.01 -1.18	52.00 3.03 -0.93	56.94 2.95 -0.29	64.22 2.96 -0.78	61.81 2.80 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.28 2.30 -0.67	36.98 1.84 -0.38
FARRAGUT_138_KV_38M12_REV_LBMP_J 345017	35.67 1.61 -0.42	31.34 1.37 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.48 1.34 -0.03	32.94 1.47 -0.17	43.19 2.33 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.85 3.24 -0.79	42.90 3.24 -1.04	43.84 3.10 -0.94	45.11 3.00 -1.03	48.50 3.01 -1.18	51.96 2.98 -0.93	56.88 2.90 -0.29	64.15 2.90 -0.78	61.75 2.74 -0.64	51.94 2.31 -0.46	46.65 2.26 -0.94	41.24 2.26 -0.67	36.95 1.81 -0.38
FARRAGUT___LBMP 323566	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.15 2.29 -0.70	47.78 2.69 -1.02	45.17 2.89 -1.02	42.46 2.91 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.07 2.96 -1.03	48.45 2.97 -1.18	51.91 2.93 -0.93	56.83 2.85 -0.29	64.09 2.84 -0.78	61.69 2.68 -0.64	51.89 2.26 -0.46	46.60 2.22 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
FENNER___WINDPWR 24204	39.19 0.94 -4.61	35.55 0.77 -4.98	31.45 0.74 -0.96	30.52 0.62 -1.47	31.22 0.70 -1.41	34.46 0.88 -2.29	46.15 1.20 -4.78	50.10 1.50 -4.53	47.19 1.28 -4.64	43.81 0.87 -5.15	39.22 0.77 -1.67	39.26 0.81 -1.62	41.33 0.97 -1.75	43.45 1.00 -2.66	45.26 0.95 -3.24	50.22 1.33 -4.58	54.50 1.54 -4.92	61.92 1.83 -6.39	69.10 2.30 -6.34	65.84 2.56 -4.92	55.83 1.92 -4.74	50.39 1.61 -5.33	44.43 1.23 -4.89	39.72 1.04 -3.92
FIBERTEK___ENERGY 23856	35.52 0.07 -1.81	31.81 0.06 -1.96	30.18 0.06 -0.38	29.03 0.03 -0.58	29.72 0.06 -0.55	32.29 0.09 -0.90	43.62 0.00 -3.46	48.00 0.04 -3.88	45.11 0.00 -3.85	42.36 -0.11 -4.69	40.05 -0.04 -3.32	39.89 -0.11 -3.17	41.68 -0.04 -3.11	42.89 0.08 -3.02	44.52 0.16 -3.28	48.73 0.22 -4.20	54.45 0.29 -6.12	60.88 0.43 -6.75	69.42 0.67 -8.29	66.38 0.64 -7.38	55.15 0.49 -5.49	49.43 0.22 -5.77	41.82 0.00 -3.51	39.32 0.17 -4.40
FITZPATRICK___ 23598	32.90 -0.74 0.00	29.14 -0.66 0.00	29.09 -0.65 0.00	27.80 -0.63 0.00	28.44 -0.67 0.00	30.64 -0.66 0.00	29.40 -0.96 9.80	31.17 -1.10 11.80	28.47 -1.03 11.77	21.40 -1.02 15.37	20.87 -0.92 14.99	21.57 -0.96 14.30	24.00 -0.96 13.65	27.63 -0.88 11.29	28.67 -0.90 11.51	29.50 -0.98 13.83	23.17 -1.01 23.87	25.80 -1.02 26.88	23.46 -1.03 35.98	23.55 -0.99 33.81	25.80 -0.88 22.49	19.80 -0.87 22.78	27.60 -0.88 9.83	16.35 -0.69 17.71
FORGEBRK_115_KV_TR1_2_REV_LBMP_G 345010	35.71 1.75 -0.32	31.48 1.55 -0.13	31.36 1.49 -0.13	29.87 1.45 0.00	30.62 1.48 -0.02	33.03 1.60 -0.13	43.03 2.33 -0.53	47.54 2.69 -0.78	44.68 2.64 -0.78	41.62 2.49 -1.34	39.89 2.57 -0.54	40.41 2.98 -0.60	42.57 3.17 -0.80	43.50 2.98 -0.72	44.78 2.92 -0.79	48.35 3.15 -0.90	51.40 2.64 -0.71	56.71 2.79 -0.22	63.91 2.84 -0.60	61.65 2.80 -0.49	51.93 2.41 -0.35	46.34 2.17 -0.71	41.01 2.18 -0.51	36.89 1.84 -0.29
FORT ORANGE___ 23900	33.69 0.37 0.32	30.02 0.36 0.13	29.94 0.33 0.13	28.82 0.40 0.00	29.47 0.38 0.02	31.57 0.41 0.13	40.12 0.48 0.52	43.97 0.66 0.77	41.00 0.50 0.76	36.88 0.42 1.32	36.39 0.15 0.53	36.39 0.15 0.59	37.94 0.12 0.78	38.97 -0.12 0.71	40.23 -0.08 0.77	43.43 0.00 0.88	47.44 0.10 0.70	53.70 0.22 0.21	60.06 0.18 0.59	58.05 0.18 0.48	49.03 0.20 0.34	42.97 0.22 0.70	38.04 0.23 0.50	34.71 0.24 0.29
FORT_DRUM_COGEN 23780	54.68 1.14 -19.90	52.20 0.89 -21.51	34.61 0.71 -4.16	35.24 0.45 -6.36	35.71 0.52 -6.07	42.00 0.81 -9.89	60.42 1.20 -19.05	63.41 1.72 -17.62	60.62 1.24 -18.12	58.21 0.68 -19.75	42.07 0.51 -4.78	42.13 0.63 -4.67	44.84 0.89 -5.34	50.31 0.88 -9.64	54.00 0.82 -12.10	63.16 1.33 -17.52	67.07 1.68 -17.34	79.07 2.15 -23.22	84.93 2.96 -21.50	77.64 3.56 -15.72	68.55 2.56 -16.81	64.97 2.22 -19.31	59.47 1.65 -19.51	50.20 1.39 -14.06
FOX_HILLS___ESR 323835	36.09 2.02 -0.43	31.74 1.76 -0.18	31.55 1.64 -0.17	29.65 1.22 0.00	19.13 1.54 11.52	24.44 1.53 8.39	26.66 2.41 15.91	27.08 2.91 19.91	27.01 3.09 17.35	27.02 3.10 13.87	27.64 3.20 12.34	27.71 3.42 12.54	28.02 3.47 14.07	28.00 3.30 15.10	27.60 3.20 16.69	27.83 3.19 19.67	30.50 3.12 20.67	36.29 2.90 20.31	36.58 2.84 26.73	27.82 2.68 33.22	28.07 2.46 23.57	27.99 2.35 17.81	27.58 2.38 13.11	26.71 1.95 9.99
FPL_FAR_ROCK_GT1 24212	36.31 2.25 -0.42	31.79 1.82 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.04 1.56 -0.17	43.47 2.61 -0.70	47.82 2.73 -1.02	44.97 2.68 -1.02	42.83 3.29 -1.76	40.98 3.50 -0.71	41.42 3.79 -0.80	43.01 3.36 -1.04	43.92 3.18 -0.94	45.07 2.96 -1.03	48.41 2.92 -1.18	52.09 3.12 -0.93	57.58 3.60 -0.28	65.06 3.81 -0.78	62.56 3.56 -0.64	52.52 2.90 -0.45	47.07 2.69 -0.93	42.20 3.22 -0.67	37.75 2.61 -0.38
FPL_FAR_ROCK_GT2 23815	36.31 2.25 -0.42	31.79 1.82 -0.18	31.28 1.37 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.04 1.56 -0.17	43.47 2.61 -0.70	47.82 2.73 -1.02	44.97 2.68 -1.02	42.83 3.29 -1.76	40.98 3.50 -0.71	41.42 3.79 -0.80	43.01 3.36 -1.04	43.92 3.18 -0.94	45.07 2.96 -1.03	48.41 2.92 -1.18	52.09 3.12 -0.93	57.58 3.60 -0.28	65.06 3.81 -0.78	62.56 3.56 -0.64	52.52 2.90 -0.45	47.07 2.69 -0.93	42.20 3.22 -0.67	37.75 2.61 -0.38
FRANKLIN_FALL_HYD 24054	61.46 0.87 -26.95	59.73 0.80 -29.12	36.14 0.77 -5.63	37.84 0.80 -8.62	38.15 0.82 -8.22	45.60 0.91 -13.39	65.61 1.33 -24.12	67.45 1.50 -21.88	65.30 1.49 -22.55	63.41 1.47 -24.15	42.09 1.36 -3.96	42.04 1.29 -3.92	44.83 1.27 -4.94	52.26 1.31 -11.15	56.92 1.40 -14.44	67.25 1.55 -21.39	69.24 1.73 -19.47	82.44 1.88 -26.86	85.52 2.06 -22.99	75.70 1.81 -15.53	69.69 1.57 -18.94	67.15 1.43 -22.27	64.21 1.15 -24.75	51.68 0.90 -16.02



FREEPORT_EQUS_GT1 23764	35.67 1.61 -0.42	31.25 1.28 -0.18	30.77 0.86 -0.17	29.25 0.82 0.00	30.13 0.99 -0.03	32.54 1.06 -0.17	42.75 1.89 -0.70	46.94 1.85 -1.02	44.68 2.39 -1.02	42.53 2.98 -1.76	40.65 3.16 -0.71	41.05 3.43 -0.80	42.63 2.97 -1.04	43.48 2.74 -0.94	44.62 2.51 -1.03	47.96 2.48 -1.18	51.61 2.64 -0.93	56.34 2.36 -0.28	63.55 2.30 -0.78	61.16 2.16 -0.64	51.39 1.77 -0.45	46.07 1.69 -0.93	41.47 2.49 -0.67	37.12 1.98 -0.38
FREEPORT___CT2 23818	35.67 1.61 -0.42	31.25 1.28 -0.18	30.77 0.86 -0.17	29.25 0.82 0.00	30.13 0.99 -0.03	32.54 1.06 -0.17	42.75 1.89 -0.70	46.94 1.85 -1.02	44.68 2.39 -1.02	42.53 2.98 -1.76	40.65 3.16 -0.71	41.05 3.43 -0.80	42.63 2.97 -1.04	43.48 2.74 -0.94	44.62 2.51 -1.03	47.96 2.48 -1.18	51.61 2.64 -0.93	56.34 2.36 -0.28	63.55 2.30 -0.78	61.16 2.16 -0.64	51.39 1.77 -0.45	46.07 1.69 -0.93	41.47 2.49 -0.67	37.12 1.98 -0.38
FRESHKLS_33_KV_LOAD 356253	36.32 2.25 -0.43	31.98 2.00 -0.18	31.79 1.87 -0.17	29.70 1.28 0.00	19.22 1.63 11.52	24.57 1.66 8.39	26.82 2.57 15.91	27.25 3.09 19.91	27.21 3.30 17.35	27.21 3.29 13.87	27.82 3.38 12.34	27.90 3.61 12.54	28.17 3.63 14.07	28.19 3.50 15.10	27.80 3.41 16.69	28.05 3.41 19.67	30.74 3.36 20.67	36.56 3.17 20.31	36.94 3.20 26.73	28.12 2.98 33.22	28.31 2.70 23.57	28.20 2.56 17.81	27.77 2.57 13.11	26.85 2.09 9.99
FULTON COGEN____ 23766	35.83 -0.27 -2.46	32.22 -0.24 -2.66	29.99 -0.27 -0.51	28.93 -0.28 -0.79	29.60 -0.26 -0.75	32.27 -0.25 -1.22	44.63 -0.40 -4.87	48.78 -0.48 -5.19	46.02 -0.50 -5.25	43.62 -0.53 -6.37	40.74 -0.44 -4.41	40.54 -0.52 -4.22	42.29 -0.46 -4.14	43.51 -0.36 -4.07	45.15 -0.37 -4.43	49.61 -0.40 -5.70	55.94 -0.34 -8.23	63.19 -0.27 -9.76	72.22 -0.12 -11.87	68.85 -0.12 -10.60	56.87 -0.15 -7.84	51.37 -0.30 -8.22	42.86 -0.38 -4.93	40.82 -0.21 -6.27
FULTON___LFGE 323630	35.31 1.92 0.24	31.30 1.61 0.10	31.34 1.69 0.10	30.02 1.59 0.00	30.75 1.66 0.02	33.11 1.91 0.10	42.25 2.49 0.40	45.90 2.42 0.59	41.88 1.20 0.59	37.26 0.49 1.02	36.14 -0.22 0.41	35.93 -0.44 0.45	37.55 -0.46 0.60	38.89 -0.36 0.55	40.32 -0.16 0.59	44.12 0.49 0.68	48.85 1.34 0.54	56.38 2.84 0.17	64.13 4.11 0.45	62.19 4.20 0.37	52.35 3.44 0.26	45.82 2.91 0.54	40.41 2.49 0.39	36.48 1.95 0.22
G.F.CEMENT___DRP 24184	34.75 1.55 0.43	30.87 1.25 0.18	31.00 1.43 0.17	29.70 1.28 0.00	30.36 1.28 0.03	32.62 1.50 0.18	41.22 1.77 0.72	44.83 1.81 1.05	40.84 0.62 1.04	36.40 0.42 1.80	35.79 -0.26 0.73	35.69 -0.33 0.80	37.19 -0.35 1.07	38.63 -0.20 0.97	39.82 -0.21 1.05	43.37 0.27 1.20	47.95 0.86 0.96	55.50 2.09 0.29	62.51 2.84 0.80	60.50 2.80 0.66	50.97 2.26 0.47	44.36 1.87 0.96	39.42 1.80 0.69	35.72 1.36 0.39
GARDENVILLE___LBMP 24039	34.04 0.40 0.00	30.33 0.54 0.00	30.07 0.33 0.00	28.48 0.06 0.00	29.26 0.15 0.00	31.55 0.25 0.00	40.37 -0.56 -0.77	43.74 -1.28 -0.95	40.64 -1.57 -0.94	37.89 -1.13 -1.23	37.68 -0.29 -1.20	37.13 -0.85 -1.15	39.05 -0.66 -1.09	40.78 0.08 -0.91	42.87 0.86 -0.92	45.51 0.09 -1.11	50.39 0.43 -1.91	57.16 1.34 -2.12	65.48 2.18 -2.83	62.66 1.63 -2.66	51.78 0.84 -1.77	45.68 0.43 -1.79	38.63 -0.46 -0.77	37.12 0.97 -1.39
GARDNVLA_35_KV_LD 355827	34.14 0.50 0.00	30.42 0.63 0.00	30.19 0.45 0.00	28.57 0.14 0.00	29.35 0.23 0.00	31.64 0.34 0.00	40.49 -0.44 -0.77	43.92 -1.10 -0.94	40.80 -1.40 -0.94	38.07 -0.94 -1.23	37.86 -0.11 -1.20	37.31 -0.66 -1.14	39.24 -0.46 -1.09	40.97 0.28 -0.90	43.07 1.07 -0.92	45.68 0.27 -1.11	50.63 0.67 -1.91	57.42 1.61 -2.11	65.78 2.48 -2.83	63.00 1.98 -2.66	52.02 1.08 -1.77	45.89 0.65 -1.79	38.78 -0.31 -0.77	37.26 1.11 -1.39
GELCKHM___115KV_LOAD 80723	35.55 -0.10 -2.01	31.88 -0.09 -2.17	30.07 -0.09 -0.42	28.93 -0.14 -0.64	29.61 -0.12 -0.61	32.21 -0.09 -1.00	43.18 -0.24 -3.26	48.21 0.09 -4.05	45.15 0.04 -3.85	42.40 -0.08 -4.69	40.09 0.00 -3.32	39.93 -0.07 -3.17	41.72 0.00 -3.11	42.97 0.16 -3.02	44.56 0.21 -3.28	48.77 0.27 -4.20	54.50 0.34 -6.12	59.52 0.11 -5.71	67.84 0.30 -7.06	64.84 0.29 -6.19	54.08 0.15 -4.76	48.46 -0.04 -5.05	41.43 -0.19 -3.31	38.55 -0.03 -3.83
GENERAL___MILLS 23808	34.11 0.47 0.00	30.39 0.60 0.00	30.13 0.39 0.00	28.54 0.11 0.00	29.32 0.20 0.00	31.61 0.31 0.00	40.41 -0.52 -0.77	43.83 -1.19 -0.95	40.72 -1.49 -0.94	38.00 -1.02 -1.23	37.79 -0.18 -1.20	37.24 -0.74 -1.15	39.16 -0.54 -1.09	40.90 0.20 -0.90	42.95 0.94 -0.92	45.59 0.18 -1.11	50.53 0.58 -1.91	57.31 1.50 -2.11	65.66 2.36 -2.83	62.83 1.81 -2.66	51.93 0.98 -1.77	45.81 0.56 -1.79	38.70 -0.38 -0.77	37.19 1.04 -1.39
GE_PLASTICS___DRP 24183	33.92 0.50 0.22	30.15 0.45 0.09	30.16 0.51 0.09	28.91 0.48 0.00	29.56 0.47 0.01	31.71 0.50 0.09	40.40 0.60 0.37	44.20 0.66 0.53	41.35 0.62 0.53	37.43 0.57 0.92	36.81 0.40 0.37	36.86 0.44 0.41	38.49 0.42 0.55	39.66 0.36 0.49	40.87 0.33 0.54	44.09 0.40 0.61	47.94 0.38 0.49	53.98 0.43 0.15	60.48 0.42 0.41	58.43 0.41 0.34	49.33 0.39 0.24	43.40 0.43 0.49	38.46 0.50 0.35	34.94 0.38 0.20
GILBOA___1 23756	34.21 0.57 0.00	30.30 0.51 0.00	30.57 0.83 0.00	29.22 0.79 0.00	29.93 0.81 0.00	31.83 0.53 0.00	40.93 0.76 0.00	44.91 0.84 0.00	42.05 0.78 0.00	38.50 0.72 0.00	37.47 0.70 0.00	37.53 0.70 0.00	39.34 0.73 0.00	40.47 0.68 0.00	41.78 0.70 0.00	45.06 0.75 0.00	48.72 0.67 0.00	54.18 0.48 0.00	60.89 0.43 0.00	58.77 0.41 0.00	49.77 0.59 0.00	44.14 0.69 0.00	38.96 0.65 0.00	35.31 0.55 0.00
GILBOA___2 23757	34.21 0.57 0.00	30.30 0.51 0.00	30.57 0.83 0.00	29.22 0.79 0.00	29.93 0.81 0.00	31.83 0.53 0.00	40.93 0.76 0.00	44.91 0.84 0.00	42.05 0.78 0.00	38.50 0.72 0.00	37.47 0.70 0.00	37.53 0.70 0.00	39.34 0.73 0.00	40.47 0.68 0.00	41.78 0.70 0.00	45.06 0.75 0.00	48.72 0.67 0.00	54.18 0.48 0.00	60.89 0.43 0.00	58.77 0.41 0.00	49.77 0.59 0.00	44.14 0.69 0.00	38.96 0.65 0.00	35.31 0.55 0.00
GILBOA___3 23758	34.21 0.57 0.00	30.30 0.51 0.00	30.57 0.83 0.00	29.22 0.79 0.00	29.93 0.81 0.00	31.83 0.53 0.00	40.93 0.76 0.00	44.91 0.84 0.00	42.05 0.78 0.00	38.50 0.72 0.00	37.47 0.70 0.00	37.53 0.70 0.00	39.34 0.73 0.00	40.47 0.68 0.00	41.78 0.70 0.00	45.06 0.75 0.00	48.72 0.67 0.00	54.18 0.48 0.00	60.89 0.43 0.00	58.77 0.41 0.00	49.77 0.59 0.00	44.14 0.69 0.00	38.96 0.65 0.00	35.31 0.55 0.00
GILBOA___4 23759	34.21 0.57 0.00	30.30 0.51 0.00	30.57 0.83 0.00	29.22 0.79 0.00	29.93 0.81 0.00	31.83 0.53 0.00	40.93 0.76 0.00	44.91 0.84 0.00	42.05 0.78 0.00	38.50 0.72 0.00	37.47 0.70 0.00	37.53 0.70 0.00	39.34 0.73 0.00	40.47 0.68 0.00	41.78 0.70 0.00	45.06 0.75 0.00	48.72 0.67 0.00	54.18 0.48 0.00	60.89 0.43 0.00	58.77 0.41 0.00	49.77 0.59 0.00	44.14 0.69 0.00	38.96 0.65 0.00	35.31 0.55 0.00



GILBOA____ 23599	34.21 0.57 0.00	30.30 0.51 0.00	30.43 0.68 0.00	29.22 0.80 0.00	29.78 0.67 0.00	31.83 0.53 0.00	40.89 0.72 0.00	44.87 0.79 0.00	42.01 0.74 0.00	38.47 0.68 0.00	37.44 0.66 0.00	37.53 0.70 0.00	39.31 0.69 0.00	40.47 0.68 0.00	41.78 0.70 0.00	45.02 0.71 0.00	48.67 0.62 0.00	54.07 0.38 0.00	60.77 0.30 0.00	58.65 0.29 0.00	49.67 0.49 0.00	44.10 0.65 0.00	38.96 0.65 0.00	35.31 0.56 0.00
GINNA____ 23603	32.32 -1.31 0.00	28.70 -1.10 0.00	28.49 -1.25 0.00	27.29 -1.14 0.00	27.77 -1.34 0.00	30.08 -1.22 0.00	39.03 -1.85 -0.71	42.66 -2.29 -0.88	39.91 -2.23 -0.88	36.74 -2.19 -1.14	36.16 -1.73 -1.12	36.02 -1.88 -1.07	37.81 -1.81 -1.02	39.36 -1.27 -0.84	40.50 -1.44 -0.86	43.70 -1.64 -1.03	48.19 -1.63 -1.78	54.37 -1.29 -1.96	62.12 -0.97 -2.62	59.54 -1.28 -2.46	49.73 -1.08 -1.64	43.85 -1.26 -1.66	37.49 -1.53 -0.72	35.04 -1.01 -1.29
GLEN PARK____ 23778	53.75 1.28 -18.84	51.17 1.01 -20.36	34.51 0.83 -3.93	35.01 0.57 -6.02	35.50 0.64 -5.75	41.63 0.97 -9.36	59.72 1.41 -18.15	62.84 1.94 -16.83	59.97 1.40 -17.30	57.47 0.79 -18.88	42.11 0.62 -4.71	42.17 0.74 -4.60	44.84 1.00 -5.23	50.05 1.00 -9.27	53.62 0.95 -11.59	62.53 1.46 -16.76	66.58 1.83 -16.72	78.38 2.36 -22.32	84.60 3.32 -20.81	77.58 3.91 -15.31	68.28 2.90 -16.20	64.49 2.48 -18.56	58.78 1.88 -18.60	49.85 1.57 -13.53
GLENDALE_27_KV_LOAD 356172	35.95 1.88 -0.43	31.59 1.61 -0.18	31.40 1.49 -0.17	29.79 1.36 0.00	30.68 1.54 -0.03	33.07 1.60 -0.17	43.35 2.49 -0.70	48.09 3.00 -1.02	45.46 3.18 -1.02	42.72 3.17 -1.76	40.76 3.27 -0.71	41.07 3.46 -0.79	43.17 3.51 -1.04	44.08 3.34 -0.94	45.36 3.25 -1.03	48.67 3.19 -1.18	52.15 3.17 -0.93	57.04 3.06 -0.29	64.28 3.02 -0.78	61.81 2.80 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GLENWOOD_IC_1_G5 23712	35.74 1.68 -0.42	31.37 1.40 -0.18	31.07 1.16 -0.17	29.50 1.08 0.00	30.39 1.25 -0.03	32.79 1.31 -0.17	42.95 2.09 -0.70	47.34 2.25 -1.02	44.93 2.64 -1.02	42.49 2.95 -1.76	40.68 3.20 -0.71	40.98 3.35 -0.80	43.01 3.36 -1.04	43.76 3.02 -0.94	44.82 2.71 -1.03	48.14 2.66 -1.18	51.23 2.26 -0.93	56.02 2.04 -0.28	63.31 2.06 -0.78	60.87 1.87 -0.64	51.20 1.57 -0.45	46.25 1.87 -0.93	41.36 2.38 -0.67	37.02 1.88 -0.38
GLENWOOD_IC_2_G1 23688	35.57 1.52 -0.42	31.25 1.28 -0.18	30.95 1.04 -0.17	29.42 0.99 0.00	30.25 1.11 -0.03	32.69 1.22 -0.17	42.91 2.05 -0.70	47.39 2.29 -1.02	44.89 2.60 -1.02	42.34 2.80 -1.76	40.39 2.90 -0.71	40.71 3.09 -0.79	42.59 2.93 -1.04	43.48 2.74 -0.94	44.82 2.71 -1.03	48.23 2.75 -1.18	51.76 2.79 -0.93	56.61 2.63 -0.29	63.85 2.60 -0.78	61.46 2.45 -0.64	51.65 2.02 -0.46	46.39 2.00 -0.94	41.21 2.22 -0.67	36.88 1.74 -0.38
GLENWOOD_IC_3_G1 23689	35.57 1.52 -0.42	31.25 1.28 -0.18	30.95 1.04 -0.17	29.42 0.99 0.00	30.25 1.11 -0.03	32.69 1.22 -0.17	42.91 2.05 -0.70	47.39 2.29 -1.02	44.89 2.60 -1.02	42.34 2.80 -1.76	40.39 2.90 -0.71	40.71 3.09 -0.79	42.59 2.93 -1.04	43.48 2.74 -0.94	44.82 2.71 -1.03	48.23 2.75 -1.18	51.76 2.79 -0.93	56.61 2.63 -0.29	63.85 2.60 -0.78	61.46 2.45 -0.64	51.65 2.02 -0.46	46.39 2.00 -0.94	41.21 2.22 -0.67	36.88 1.74 -0.38
GLENWOOD____4 23550	35.74 1.68 -0.42	31.37 1.40 -0.18	31.07 1.16 -0.17	29.50 1.08 0.00	30.39 1.25 -0.03	32.79 1.31 -0.17	42.95 2.09 -0.70	47.34 2.25 -1.02	44.93 2.64 -1.02	42.49 2.95 -1.76	40.68 3.20 -0.71	40.98 3.35 -0.80	43.01 3.36 -1.04	43.76 3.02 -0.94	44.82 2.71 -1.03	48.14 2.66 -1.18	51.33 2.35 -0.93	56.18 2.20 -0.28	63.43 2.18 -0.78	61.04 2.04 -0.64	51.35 1.72 -0.45	46.25 1.87 -0.93	41.36 2.38 -0.67	37.02 1.88 -0.38
GLENWOOD____5 23614	35.74 1.68 -0.42	31.37 1.40 -0.18	31.07 1.16 -0.17	29.50 1.08 0.00	30.39 1.25 -0.03	32.79 1.31 -0.17	42.95 2.09 -0.70	47.34 2.25 -1.02	44.93 2.64 -1.02	42.49 2.95 -1.76	40.68 3.20 -0.71	40.98 3.35 -0.80	43.01 3.36 -1.04	43.76 3.02 -0.94	44.82 2.71 -1.03	48.14 2.66 -1.18	51.33 2.35 -0.93	56.18 2.20 -0.28	63.43 2.18 -0.78	61.04 2.04 -0.64	51.35 1.72 -0.45	46.25 1.87 -0.93	41.36 2.38 -0.67	37.02 1.88 -0.38
GLOBAL GREEN_PORT_GT1 23814	35.50 1.45 -0.42	31.20 1.22 -0.18	30.53 0.63 -0.17	28.99 0.57 0.00	29.90 0.76 -0.03	32.19 0.72 -0.17	42.23 1.37 -0.70	46.28 1.19 -1.01	44.35 2.06 -1.02	42.38 2.84 -1.76	40.61 3.12 -0.71	41.12 3.50 -0.79	42.51 2.86 -1.04	43.36 2.63 -0.94	44.41 2.30 -1.03	47.74 2.26 -1.18	51.56 2.59 -0.93	56.02 2.04 -0.28	63.19 1.93 -0.78	60.69 1.69 -0.64	51.10 1.47 -0.45	46.03 1.65 -0.93	41.71 2.72 -0.67	37.43 2.29 -0.38
GLOBE____DSASP 323697	33.07 -0.57 0.00	29.59 -0.21 0.00	29.32 -0.42 0.00	27.83 -0.60 0.00	28.53 -0.58 0.00	30.67 -0.63 0.00	39.27 -1.65 -0.75	42.12 -2.86 -0.92	39.25 -2.93 -0.91	36.64 -2.34 -1.19	36.50 -1.43 -1.16	35.87 -2.06 -1.11	37.78 -1.89 -1.06	39.51 -1.15 -0.88	41.48 -0.49 -0.89	43.92 -1.46 -1.07	48.65 -1.25 -1.85	55.21 -0.54 -2.05	63.21 0.00 -2.74	60.41 -0.53 -2.58	50.05 -0.84 -1.71	44.27 -0.91 -1.74	37.38 -1.69 -0.75	36.80 0.70 -1.35
GOETHSLN____LBMP 323567	35.51 1.45 -0.42	31.17 1.19 -0.18	31.01 1.10 -0.17	29.45 1.02 0.00	18.75 1.16 11.53	24.15 1.25 8.40	26.29 2.05 15.92	26.63 2.47 19.91	26.59 2.68 17.36	26.63 2.72 13.87	27.22 2.79 12.35	27.30 3.02 12.55	27.55 3.01 14.07	27.55 2.87 15.11	27.10 2.71 16.70	27.33 2.70 19.68	30.01 2.64 20.67	35.90 2.52 20.32	36.21 2.48 26.74	27.47 2.33 33.23	27.57 1.97 23.58	27.59 1.96 17.82	27.11 2.03 13.23	26.23 1.56 10.08
GOLAH____69_KV_TB 1_2 80279	34.11 0.47 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.65 0.23 0.00	29.37 0.26 0.00	31.71 0.41 0.00	40.86 -0.04 -0.74	44.50 -0.48 -0.91	41.55 -0.62 -0.90	38.36 -0.60 -1.18	37.85 -0.07 -1.15	37.45 -0.48 -1.10	39.39 -0.27 -1.05	40.94 0.28 -0.87	42.58 0.62 -0.88	45.64 0.27 -1.06	50.50 0.62 -1.83	57.01 1.29 -2.02	65.23 2.06 -2.70	62.59 1.69 -2.54	52.09 1.23 -1.69	45.90 0.74 -1.71	39.13 0.08 -0.74	36.99 0.90 -1.33
GOODYEAR_LAKE_HYD 323669	34.78 1.14 0.00	30.78 0.98 0.00	30.78 1.04 0.00	29.36 0.94 0.00	30.10 0.99 0.00	32.39 1.10 0.00	42.08 1.53 -0.39	46.18 1.63 -0.48	43.10 1.36 -0.48	39.51 1.10 -0.62	38.41 1.03 -0.61	38.44 1.03 -0.58	40.24 1.08 -0.55	41.32 1.07 -0.46	42.66 1.11 -0.47	46.24 1.37 -0.56	50.64 1.63 -0.97	56.70 1.93 -1.07	64.26 2.36 -1.44	62.16 2.45 -1.35	52.04 1.97 -0.90	46.10 1.74 -0.91	40.12 1.42 -0.39	36.75 1.29 -0.71
GOUDEY_115_KV_TB6_REV_LBMP_C 345031	34.07 0.44 0.00	30.24 0.45 0.00	30.16 0.42 0.00	28.71 0.28 0.00	29.49 0.38 0.00	31.74 0.44 0.00	41.55 0.44 -0.94	45.53 0.31 -1.15	42.53 0.12 -1.14	39.39 0.11 -1.49	38.52 0.29 -1.46	38.36 0.15 -1.39	40.17 0.23 -1.33	41.33 0.44 -1.10	42.90 0.70 -1.12	46.27 0.62 -1.34	51.08 0.72 -2.32	57.35 1.07 -2.58	65.31 1.39 -3.45	62.89 1.28 -3.24	52.26 0.93 -2.16	46.29 0.65 -2.18	39.56 0.31 -0.94	37.11 0.66 -1.70



GOUDEY___7 23579	34.07 0.44 0.00	30.24 0.45 0.00	30.16 0.42 0.00	28.71 0.28 0.00	29.49 0.38 0.00	31.74 0.44 0.00	41.55 0.44 -0.94	45.53 0.31 -1.15	42.53 0.12 -1.14	39.39 0.11 -1.49	38.52 0.29 -1.46	38.36 0.15 -1.39	40.17 0.23 -1.33	41.33 0.44 -1.10	42.90 0.70 -1.12	46.27 0.62 -1.34	51.08 0.72 -2.32	57.35 1.07 -2.58	65.31 1.39 -3.45	62.89 1.28 -3.24	52.26 0.93 -2.16	46.29 0.65 -2.18	39.56 0.31 -0.94	37.11 0.66 -1.70
GOUDEY___8 23580	34.07 0.44 0.00	30.24 0.45 0.00	30.16 0.42 0.00	28.71 0.28 0.00	29.49 0.38 0.00	31.74 0.44 0.00	41.55 0.44 -0.94	45.53 0.31 -1.15	42.53 0.12 -1.14	39.39 0.11 -1.49	38.52 0.29 -1.46	38.36 0.15 -1.39	40.17 0.23 -1.33	41.33 0.44 -1.10	42.90 0.70 -1.12	46.27 0.62 -1.34	51.08 0.72 -2.32	57.35 1.07 -2.58	65.31 1.39 -3.45	62.89 1.28 -3.24	52.26 0.93 -2.16	46.29 0.65 -2.18	39.56 0.31 -0.94	37.11 0.66 -1.70
GOWANUS_GT1_1 24077	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT1_2 24078	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT1_3 24079	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT1_4 24080	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT1_5 24084	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT1_6 24111	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT1_7 24112	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT1_8 24113	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT2_1 24114	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT2_2 24115	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT2_3 24116	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT2_4 24117	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT2_5 24118	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38



GOWANUS_GT2_6 24119	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT2_7 24120	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT2_8 24121	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_1 24122	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_2 24123	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_3 24124	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_4 24125	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_5 24126	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_6 24127	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_7 24128	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT3_8 24129	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
GOWANUS_GT4_1 24130	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT4_2 24131	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT4_3 24132	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT4_4 24133	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38



GOWANUS_GT4_5 24134	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT4_6 24135	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT4_7 24136	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GOWANUS_GT4_8 24137	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GREATVRV_69_KV_BK1 356245	36.25 2.19 -0.42	31.70 1.73 -0.18	31.13 1.22 -0.17	29.56 1.14 0.00	30.54 1.40 -0.03	32.91 1.44 -0.17	43.27 2.41 -0.70	47.33 2.25 -1.01	45.26 2.97 -1.02	43.10 3.55 -1.76	41.53 4.05 -0.71	41.86 4.24 -0.80	43.82 4.17 -1.04	44.36 3.62 -0.94	45.11 3.00 -1.03	48.36 2.88 -1.18	51.85 2.88 -0.93	56.66 2.68 -0.28	64.09 2.84 -0.78	61.56 2.57 -0.64	51.74 2.11 -0.45	46.42 2.04 -0.93	42.20 3.22 -0.67	37.68 2.54 -0.38
GREENBSH_115KV_TB3 55895	33.59 0.27 0.32	29.93 0.27 0.13	29.94 0.33 0.13	28.77 0.34 0.00	29.38 0.29 0.02	31.48 0.31 0.13	40.00 0.36 0.52	43.75 0.44 0.77	40.91 0.41 0.76	36.80 0.34 1.32	36.35 0.11 0.53	36.38 0.15 0.59	37.94 0.12 0.78	39.12 0.04 0.71	40.31 0.00 0.77	43.47 0.04 0.88	47.44 0.10 0.70	53.59 0.11 0.21	59.94 0.06 0.59	57.93 0.06 0.48	48.93 0.10 0.34	42.92 0.17 0.70	38.08 0.27 0.50	34.60 0.14 0.29
GREENDGE_115KV_TB5 80291	34.68 1.04 0.00	30.75 0.95 0.00	30.66 0.92 0.00	29.14 0.71 0.00	30.01 0.90 0.00	32.43 1.13 0.00	42.64 1.29 -1.19	46.78 1.23 -1.47	43.56 0.83 -1.47	40.19 0.49 -1.91	39.30 0.66 -1.87	39.01 0.41 -1.78	40.85 0.54 -1.70	42.15 0.96 -1.41	43.91 1.40 -1.43	47.54 1.51 -1.72	52.89 1.87 -2.97	59.69 2.74 -3.25	68.45 3.63 -4.35	65.95 3.50 -4.09	54.55 2.66 -2.72	47.99 1.78 -2.76	40.50 1.00 -1.19	38.39 1.49 -2.14
GREENIDGE___3 23582	34.68 1.04 0.00	30.75 0.95 0.00	30.66 0.92 0.00	29.14 0.71 0.00	30.01 0.90 0.00	32.43 1.13 0.00	42.64 1.29 -1.19	46.78 1.23 -1.47	43.56 0.83 -1.47	40.19 0.49 -1.91	39.30 0.66 -1.87	39.01 0.41 -1.78	40.85 0.54 -1.70	42.15 0.96 -1.41	43.91 1.40 -1.43	47.54 1.51 -1.72	52.89 1.87 -2.97	59.69 2.74 -3.25	68.45 3.63 -4.35	65.95 3.50 -4.09	54.55 2.66 -2.72	47.99 1.78 -2.76	40.50 1.00 -1.19	38.39 1.49 -2.14
GREENIDGE___4 23583	34.71 1.08 0.00	30.75 0.95 0.00	30.66 0.92 0.00	29.16 0.74 0.00	29.96 0.84 0.00	32.42 1.13 0.00	42.64 1.28 -1.19	46.78 1.23 -1.47	43.56 0.82 -1.47	40.16 0.46 -1.91	39.34 0.70 -1.87	39.09 0.48 -1.78	40.93 0.62 -1.70	42.35 1.15 -1.41	43.83 1.31 -1.43	47.58 1.55 -1.72	52.84 1.83 -2.97	59.63 2.68 -3.25	68.45 3.63 -4.35	65.89 3.44 -4.09	54.65 2.75 -2.72	48.03 1.82 -2.76	40.73 1.23 -1.19	38.39 1.49 -2.14
GREENLWN_69_KV_BK 3 55738	35.34 1.28 -0.42	30.93 0.95 -0.18	30.47 0.57 -0.17	28.94 0.51 0.00	29.87 0.73 -0.03	32.19 0.72 -0.17	42.23 1.37 -0.70	45.92 0.84 -1.01	44.06 1.77 -1.02	42.04 2.49 -1.76	40.39 2.91 -0.71	40.64 3.02 -0.80	42.40 2.74 -1.04	42.81 2.07 -0.94	43.51 1.40 -1.03	46.73 1.24 -1.18	50.03 1.06 -0.93	54.67 0.70 -0.28	61.74 0.48 -0.78	59.41 0.41 -0.64	49.97 0.34 -0.45	44.86 0.48 -0.93	40.94 1.95 -0.67	36.67 1.53 -0.38
GREENWD_138_KV_38B11_REV_LBMP_J 345004	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38
GRISSOM___SOLAR 323813	35.20 1.82 0.25	31.21 1.52 0.10	31.22 1.58 0.10	29.93 1.51 0.00	30.67 1.57 0.02	32.98 1.78 0.10	42.08 2.33 0.41	45.72 2.25 0.60	41.74 1.07 0.60	37.13 0.38 1.04	35.99 -0.37 0.42	35.77 -0.59 0.46	37.37 -0.62 0.62	38.68 -0.56 0.56	40.11 -0.37 0.61	43.88 0.27 0.69	48.64 1.15 0.55	56.11 2.58 0.17	63.82 3.81 0.46	61.83 3.85 0.38	52.05 3.15 0.27	45.59 2.69 0.55	40.21 2.30 0.40	36.33 1.81 0.23
GROVEVILLE___HYD 323602	35.71 1.75 -0.32	31.48 1.55 -0.13	31.36 1.49 -0.13	29.87 1.45 0.00	30.62 1.48 -0.02	33.03 1.60 -0.13	43.03 2.33 -0.53	47.54 2.69 -0.78	44.68 2.64 -0.78	41.62 2.49 -1.34	39.89 2.57 -0.54	40.41 2.98 -0.60	42.57 3.17 -0.80	43.50 2.98 -0.72	44.78 2.92 -0.79	48.35 3.15 -0.90	51.40 2.64 -0.71	56.71 2.79 -0.22	63.91 2.84 -0.60	61.65 2.80 -0.49	51.93 2.41 -0.35	46.34 2.17 -0.71	41.01 2.18 -0.51	36.89 1.84 -0.29
GRS_LOCK_115KV_LINE_2_SOLVAY 80269	35.52 0.07 -1.81	31.81 0.06 -1.96	30.18 0.06 -0.38	29.03 0.03 -0.58	29.72 0.06 -0.55	32.29 0.09 -0.90	43.62 0.00 -3.46	48.00 0.04 -3.88	45.11 0.00 -3.85	42.36 -0.11 -4.69	40.05 -0.04 -3.32	39.89 -0.11 -3.17	41.68 -0.04 -3.11	42.89 0.08 -3.02	44.52 0.16 -3.28	48.73 0.22 -4.20	54.45 0.29 -6.12	60.88 0.43 -6.75	69.42 0.67 -8.29	66.38 0.64 -7.38	55.15 0.49 -5.49	49.43 0.22 -5.77	41.82 0.00 -3.51	39.32 0.17 -4.40
HAMLTNNY_34_KV_TB 80303	35.47 0.27 -1.57	31.73 0.24 -1.69	30.31 0.24 -0.33	29.10 0.17 -0.50	29.79 0.20 -0.48	32.36 0.28 -0.78	43.61 0.24 -3.20	47.79 0.18 -3.54	44.93 0.12 -3.54	42.07 -0.04 -4.32	39.99 0.11 -3.11	39.80 0.00 -2.97	41.59 0.08 -2.90	42.87 0.28 -2.80	44.52 0.41 -3.03	48.67 0.49 -3.87	54.36 0.62 -5.69	61.11 0.97 -6.45	69.74 1.33 -7.94	66.69 1.23 -7.11	55.34 0.93 -5.23	49.49 0.56 -5.47	41.78 0.23 -3.24	39.39 0.45 -4.18



HAMPSHIRE___PAPER_HYD 323593	84.50 0.54 -50.32	84.59 0.42 -54.38	40.48 0.24 -10.51	44.62 0.11 -16.09	44.61 0.15 -15.35	56.55 0.25 -25.00	86.12 0.36 -45.59	86.15 0.57 -41.50	84.38 0.37 -42.75	83.96 0.23 -45.94	45.10 0.11 -8.21	45.17 0.22 -8.12	48.98 0.39 -9.98	61.64 0.40 -21.45	69.05 0.37 -27.60	85.59 0.57 -40.71	86.44 0.72 -37.67	106.26 0.91 -51.65	106.68 1.27 -44.94	90.77 1.51 -30.89	86.93 1.13 -36.63	87.34 1.04 -42.85	85.88 0.81 -46.77	66.29 0.63 -30.91
HARDSCRABBLE_WT_PWR 323673	35.62 0.20 -1.78	31.90 0.18 -1.92	30.29 0.18 -0.37	29.11 0.11 -0.57	29.80 0.15 -0.54	32.37 0.19 -0.88	42.08 0.32 -1.59	45.91 0.40 -1.45	43.08 0.33 -1.49	39.65 0.27 -1.60	37.29 0.26 -0.26	37.38 0.29 -0.26	39.24 0.31 -0.33	40.77 0.24 -0.74	42.24 0.21 -0.95	46.08 0.35 -1.41	49.76 0.43 -1.29	55.85 0.38 -1.77	62.41 0.43 -1.52	59.91 0.52 -1.03	50.77 0.35 -1.25	45.27 0.35 -1.47	40.22 0.27 -1.63	35.99 0.17 -1.06
HARRIMAN_69_KV_BK771_REV_LBMP_G 345025	35.44 1.45 -0.36	31.23 1.28 -0.15	31.07 1.19 -0.14	29.59 1.17 0.00	30.36 1.22 -0.02	32.79 1.35 -0.15	42.76 2.01 -0.59	47.23 2.29 -0.86	44.40 2.27 -0.86	41.50 2.23 -1.49	39.65 2.28 -0.60	39.92 2.43 -0.66	42.00 2.51 -0.88	42.94 2.35 -0.80	44.29 2.34 -0.87	47.74 2.44 -0.99	51.19 2.35 -0.79	56.36 2.42 -0.24	63.55 2.42 -0.66	61.24 2.33 -0.54	51.58 2.02 -0.39	46.07 1.82 -0.79	40.83 1.95 -0.57	36.71 1.63 -0.32
HARSNRAD_115KV_TB1 81005	33.97 0.34 0.00	30.33 0.54 0.00	30.07 0.33 0.00	28.51 0.09 0.00	29.26 0.15 0.00	31.52 0.22 0.00	39.83 -1.08 -0.75	43.10 -1.90 -0.92	40.08 -2.10 -0.92	37.36 -1.62 -1.20	37.21 -0.74 -1.17	36.62 -1.33 -1.12	38.56 -1.12 -1.07	40.32 -0.36 -0.88	42.35 0.37 -0.90	44.86 -0.53 -1.08	49.67 -0.24 -1.87	56.40 0.64 -2.06	64.62 1.39 -2.76	61.83 0.88 -2.59	51.15 0.25 -1.73	45.15 -0.04 -1.75	38.19 -0.88 -0.75	36.81 0.70 -1.36
HARZA MOOSE___RIVER 24016	48.61 0.84 -14.13	45.76 0.69 -15.27	33.11 0.42 -2.95	33.20 0.26 -4.52	33.72 0.29 -4.31	38.76 0.44 -7.02	54.01 0.68 -13.16	57.13 0.97 -12.08	54.44 0.74 -12.43	51.70 0.45 -13.46	39.95 0.33 -2.85	40.10 0.48 -2.80	42.68 0.77 -3.30	46.98 0.76 -6.43	49.99 0.74 -8.17	57.35 1.11 -11.94	60.79 1.30 -11.45	70.80 1.61 -15.49	76.53 2.12 -13.94	70.73 2.45 -9.91	62.06 1.77 -11.11	57.88 1.56 -12.87	52.99 1.19 -13.49	45.06 0.97 -9.33
HDSNBRDG_115KV_BRDG_TB1 355580	35.62 -0.10 -2.08	31.99 -0.06 -2.25	30.09 -0.09 -0.43	28.98 -0.11 -0.67	29.66 -0.09 -0.64	32.24 -0.09 -1.03	43.07 -0.28 -3.19	47.00 -0.35 -3.28	44.22 -0.37 -3.33	41.31 -0.42 -3.94	38.81 -0.29 -2.33	38.69 -0.37 -2.23	40.52 -0.31 -2.22	41.98 -0.12 -2.38	43.63 -0.13 -2.67	47.70 -0.13 -3.52	52.67 -0.10 -4.72	59.46 0.05 -5.71	67.35 0.24 -6.64	64.37 0.23 -5.77	53.83 0.15 -4.50	48.16 -0.09 -4.80	41.29 -0.27 -3.24	38.32 -0.07 -3.63
HELLGATE_13_KV_LD 55870	35.98 1.92 -0.43	31.62 1.64 -0.18	31.43 1.52 -0.17	29.82 1.39 0.00	30.71 1.57 -0.03	33.07 1.60 -0.17	43.31 2.45 -0.70	48.05 2.95 -1.02	45.46 3.18 -1.02	42.68 3.14 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.63 3.15 -1.18	52.10 3.12 -0.93	56.94 2.95 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.36 2.38 -0.67	37.12 1.98 -0.38
HELLGT_W_13_KV_BRUCKNER_REV_LBMP_J 345018	35.98 1.92 -0.43	31.62 1.64 -0.18	31.43 1.52 -0.17	29.82 1.39 0.00	30.71 1.57 -0.03	33.07 1.60 -0.17	43.31 2.45 -0.70	48.05 2.95 -1.02	45.46 3.18 -1.02	42.68 3.14 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.63 3.15 -1.18	52.10 3.12 -0.93	56.94 2.95 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.36 2.38 -0.67	37.12 1.98 -0.38
HEMPSTEAD____ 23647	35.47 1.41 -0.42	31.11 1.13 -0.18	30.65 0.74 -0.17	29.14 0.71 0.00	30.01 0.87 -0.03	32.41 0.94 -0.17	42.59 1.73 -0.70	46.85 1.76 -1.02	44.55 2.27 -1.02	42.34 2.80 -1.76	40.43 2.94 -0.71	40.83 3.20 -0.80	42.47 2.82 -1.04	43.32 2.59 -0.94	44.49 2.38 -1.03	47.83 2.35 -1.18	51.33 2.35 -0.93	56.02 2.04 -0.28	63.19 1.93 -0.78	60.81 1.81 -0.64	51.10 1.47 -0.45	45.90 1.52 -0.93	41.21 2.22 -0.67	36.84 1.70 -0.38
HICKLING___1 23621	34.31 0.67 0.00	30.48 0.69 0.00	30.34 0.59 0.00	28.79 0.37 0.00	29.67 0.55 0.00	31.99 0.69 0.00	41.76 0.60 -0.99	45.60 0.31 -1.22	42.48 0.00 -1.21	39.30 -0.08 -1.59	38.61 0.29 -1.55	38.27 -0.04 -1.48	40.13 0.12 -1.41	41.47 0.52 -1.16	43.30 1.03 -1.19	46.62 0.89 -1.43	51.56 1.06 -2.46	58.19 1.77 -2.72	66.53 2.42 -3.64	64.00 2.22 -3.42	53.07 1.62 -2.28	46.76 1.00 -2.31	39.69 0.38 -1.00	37.62 1.08 -1.79
HICKLING___2 23622	34.31 0.67 0.00	30.48 0.69 0.00	30.34 0.59 0.00	28.79 0.37 0.00	29.67 0.55 0.00	31.99 0.69 0.00	41.76 0.60 -0.99	45.60 0.31 -1.22	42.48 0.00 -1.21	39.30 -0.08 -1.59	38.61 0.29 -1.55	38.27 -0.04 -1.48	40.13 0.12 -1.41	41.47 0.52 -1.16	43.30 1.03 -1.19	46.62 0.89 -1.43	51.56 1.06 -2.46	58.19 1.77 -2.72	66.53 2.42 -3.64	64.00 2.22 -3.42	53.07 1.62 -2.28	46.76 1.00 -2.31	39.69 0.38 -1.00	37.62 1.08 -1.79
HIGH FALLS___HY 23754	35.80 1.95 -0.21	31.61 1.73 -0.09	31.46 1.64 -0.08	30.07 1.65 0.00	30.79 1.66 -0.01	33.17 1.78 -0.09	43.13 2.61 -0.35	47.54 2.95 -0.52	44.59 2.81 -0.52	41.29 2.61 -0.89	39.78 2.65 -0.36	39.95 2.73 -0.40	41.92 2.78 -0.53	42.90 2.63 -0.48	44.23 2.63 -0.52	47.78 2.88 -0.60	51.30 2.79 -0.47	56.80 2.95 -0.15	63.89 3.02 -0.40	61.78 3.09 -0.33	52.01 2.61 -0.23	46.23 2.30 -0.47	40.99 2.34 -0.34	36.93 1.98 -0.19
HIGH_RIVER___SOLAR 323847	34.55 1.18 0.27	30.67 0.98 0.11	30.68 1.04 0.11	29.42 0.99 0.00	30.11 1.02 0.02	32.31 1.13 0.11	41.21 1.49 0.44	44.93 1.50 0.65	41.49 0.87 0.64	37.13 0.46 1.11	36.29 -0.04 0.45	36.18 -0.15 0.50	37.80 -0.15 0.66	39.00 -0.20 0.60	40.35 -0.08 0.65	43.88 0.31 0.74	48.27 0.82 0.59	55.07 1.56 0.18	62.21 2.24 0.50	60.23 2.27 0.41	50.75 1.87 0.29	44.51 1.65 0.59	39.34 1.46 0.43	35.62 1.11 0.24
HILLBURN___GT 23639	35.35 1.35 -0.37	31.14 1.19 -0.15	30.96 1.07 -0.15	29.42 0.99 0.00	30.24 1.11 -0.02	32.67 1.22 -0.15	42.74 1.97 -0.61	47.25 2.29 -0.89	44.50 2.35 -0.89	41.63 2.31 -1.53	39.75 2.36 -0.62	40.02 2.51 -0.68	42.07 2.55 -0.91	43.04 2.43 -0.82	44.48 2.51 -0.90	47.90 2.57 -1.02	51.45 2.59 -0.81	56.52 2.58 -0.25	63.69 2.54 -0.68	61.37 2.45 -0.56	51.59 2.02 -0.40	46.13 1.87 -0.82	40.89 1.99 -0.59	36.62 1.53 -0.33
HILLSIDE_115KV_TB1 80332	33.87 0.24 0.00	30.12 0.33 0.00	29.98 0.24 0.00	28.45 0.03 0.00	29.32 0.20 0.00	31.61 0.31 0.00	41.28 0.12 -0.99	45.11 -0.18 -1.21	42.02 -0.45 -1.21	38.91 -0.45 -1.58	38.20 -0.11 -1.54	37.93 -0.37 -1.47	39.78 -0.23 -1.40	41.03 0.08 -1.16	42.80 0.53 -1.18	46.04 0.31 -1.42	50.93 0.43 -2.45	57.38 0.97 -2.72	65.55 1.45 -3.64	63.00 1.23 -3.42	52.23 0.79 -2.27	46.14 0.39 -2.30	39.23 -0.08 -0.99	37.13 0.59 -1.79



HISHELDN_WT_PWR 323625	34.07 0.44 0.00	30.27 0.48 0.00	30.01 0.27 0.00	28.51 0.09 0.00	29.11 0.00 0.00	31.58 0.28 0.00	40.46 -0.52 -0.81	43.97 -1.10 -1.00	40.82 -1.45 -1.00	37.91 -1.17 -1.30	37.67 -0.37 -1.27	37.34 -0.70 -1.21	39.19 -0.58 -1.15	41.15 0.40 -0.95	42.38 0.33 -0.97	45.48 0.00 -1.17	50.16 0.10 -2.02	56.90 0.97 -2.23	65.45 1.99 -2.99	62.63 1.46 -2.81	51.97 0.93 -1.87	45.91 0.56 -1.89	39.09 -0.04 -0.82	37.20 0.97 -1.47
HOLTSVILLE_IC_1 23690	35.37 1.31 -0.42	30.99 1.01 -0.18	30.41 0.51 -0.17	28.91 0.48 0.00	29.81 0.67 -0.03	32.13 0.66 -0.17	42.23 1.37 -0.70	46.23 1.14 -1.01	44.22 1.94 -1.02	42.19 2.64 -1.76	40.35 2.87 -0.71	40.82 3.20 -0.79	42.24 2.59 -1.04	43.04 2.31 -0.94	44.08 1.97 -1.03	47.35 1.86 -1.18	51.04 2.06 -0.93	55.48 1.50 -0.28	62.46 1.21 -0.78	59.99 0.99 -0.64	50.61 0.98 -0.45	45.51 1.13 -0.93	41.32 2.34 -0.67	36.91 1.77 -0.38
HOLTSVILLE_IC_10 23699	35.57 1.52 -0.42	31.13 1.16 -0.18	30.53 0.63 -0.17	28.99 0.57 0.00	29.93 0.79 -0.03	32.29 0.81 -0.17	42.47 1.61 -0.70	46.45 1.37 -1.01	44.47 2.19 -1.02	42.46 2.91 -1.76	40.61 3.12 -0.71	41.08 3.46 -0.79	42.51 2.86 -1.04	43.32 2.59 -0.94	44.37 2.26 -1.03	47.70 2.21 -1.18	51.37 2.40 -0.93	55.91 1.93 -0.28	62.89 1.63 -0.78	60.40 1.40 -0.64	50.95 1.33 -0.45	45.81 1.43 -0.93	41.55 2.57 -0.67	37.12 1.98 -0.38
HOLTSVILLE_IC_2 23691	35.37 1.31 -0.42	30.99 1.01 -0.18	30.41 0.51 -0.17	28.91 0.48 0.00	29.81 0.67 -0.03	32.13 0.66 -0.17	42.23 1.37 -0.70	46.23 1.14 -1.01	44.22 1.94 -1.02	42.19 2.64 -1.76	40.35 2.87 -0.71	40.82 3.20 -0.79	42.24 2.59 -1.04	43.04 2.31 -0.94	44.08 1.97 -1.03	47.35 1.86 -1.18	51.04 2.06 -0.93	55.48 1.50 -0.28	62.46 1.21 -0.78	59.99 0.99 -0.64	50.61 0.98 -0.45	45.51 1.13 -0.93	41.32 2.34 -0.67	36.91 1.77 -0.38
HOLTSVILLE_IC_3 23692	35.37 1.31 -0.42	30.99 1.01 -0.18	30.41 0.51 -0.17	28.91 0.48 0.00	29.81 0.67 -0.03	32.13 0.66 -0.17	42.23 1.37 -0.70	46.23 1.14 -1.01	44.22 1.94 -1.02	42.19 2.64 -1.76	40.35 2.87 -0.71	40.82 3.20 -0.79	42.24 2.59 -1.04	43.04 2.31 -0.94	44.08 1.97 -1.03	47.35 1.86 -1.18	51.04 2.06 -0.93	55.48 1.50 -0.28	62.46 1.21 -0.78	59.99 0.99 -0.64	50.61 0.98 -0.45	45.51 1.13 -0.93	41.32 2.34 -0.67	36.91 1.77 -0.38
HOLTSVILLE_IC_4 23693	35.37 1.31 -0.42	30.99 1.01 -0.18	30.41 0.51 -0.17	28.91 0.48 0.00	29.81 0.67 -0.03	32.13 0.66 -0.17	42.23 1.37 -0.70	46.23 1.14 -1.01	44.22 1.94 -1.02	42.19 2.64 -1.76	40.35 2.87 -0.71	40.82 3.20 -0.79	42.24 2.59 -1.04	43.04 2.31 -0.94	44.08 1.97 -1.03	47.35 1.86 -1.18	51.04 2.06 -0.93	55.48 1.50 -0.28	62.46 1.21 -0.78	59.99 0.99 -0.64	50.61 0.98 -0.45	45.51 1.13 -0.93	41.32 2.34 -0.67	36.91 1.77 -0.38
HOLTSVILLE_IC_5 23694	35.37 1.31 -0.42	30.99 1.01 -0.18	30.41 0.51 -0.17	28.91 0.48 0.00	29.81 0.67 -0.03	32.13 0.66 -0.17	42.23 1.37 -0.70	46.23 1.14 -1.01	44.22 1.94 -1.02	42.19 2.64 -1.76	40.35 2.87 -0.71	40.82 3.20 -0.79	42.24 2.59 -1.04	43.04 2.31 -0.94	44.08 1.97 -1.03	47.35 1.86 -1.18	51.04 2.06 -0.93	55.48 1.50 -0.28	62.46 1.21 -0.78	59.99 0.99 -0.64	50.61 0.98 -0.45	45.51 1.13 -0.93	41.32 2.34 -0.67	36.91 1.77 -0.38
HOLTSVILLE_IC_6 23695	35.57 1.52 -0.42	31.13 1.16 -0.18	30.53 0.63 -0.17	28.99 0.57 0.00	29.93 0.79 -0.03	32.29 0.81 -0.17	42.47 1.61 -0.70	46.45 1.37 -1.01	44.47 2.19 -1.02	42.46 2.91 -1.76	40.61 3.12 -0.71	41.08 3.46 -0.79	42.51 2.86 -1.04	43.32 2.59 -0.94	44.37 2.26 -1.03	47.70 2.21 -1.18	51.37 2.40 -0.93	55.91 1.93 -0.28	62.89 1.63 -0.78	60.40 1.40 -0.64	50.95 1.33 -0.45	45.81 1.43 -0.93	41.55 2.57 -0.67	37.12 1.98 -0.38
HOLTSVILLE_IC_7 23696	35.57 1.52 -0.42	31.13 1.16 -0.18	30.53 0.63 -0.17	28.99 0.57 0.00	29.93 0.79 -0.03	32.29 0.81 -0.17	42.47 1.61 -0.70	46.45 1.37 -1.01	44.47 2.19 -1.02	42.46 2.91 -1.76	40.61 3.12 -0.71	41.08 3.46 -0.79	42.51 2.86 -1.04	43.32 2.59 -0.94	44.37 2.26 -1.03	47.70 2.21 -1.18	51.37 2.40 -0.93	55.91 1.93 -0.28	62.89 1.63 -0.78	60.40 1.40 -0.64	50.95 1.33 -0.45	45.81 1.43 -0.93	41.55 2.57 -0.67	37.12 1.98 -0.38
HOLTSVILLE_IC_8 23697	35.57 1.52 -0.42	31.13 1.16 -0.18	30.53 0.63 -0.17	28.99 0.57 0.00	29.93 0.79 -0.03	32.29 0.81 -0.17	42.47 1.61 -0.70	46.45 1.37 -1.01	44.47 2.19 -1.02	42.46 2.91 -1.76	40.61 3.12 -0.71	41.08 3.46 -0.79	42.51 2.86 -1.04	43.32 2.59 -0.94	44.37 2.26 -1.03	47.70 2.21 -1.18	51.37 2.40 -0.93	55.91 1.93 -0.28	62.89 1.63 -0.78	60.40 1.40 -0.64	50.95 1.33 -0.45	45.81 1.43 -0.93	41.55 2.57 -0.67	37.12 1.98 -0.38
HOLTSVILLE_IC_9 23698	35.57 1.52 -0.42	31.13 1.16 -0.18	30.53 0.63 -0.17	28.99 0.57 0.00	29.93 0.79 -0.03	32.29 0.81 -0.17	42.47 1.61 -0.70	46.45 1.37 -1.01	44.47 2.19 -1.02	42.46 2.91 -1.76	40.61 3.12 -0.71	41.08 3.46 -0.79	42.51 2.86 -1.04	43.32 2.59 -0.94	44.37 2.26 -1.03	47.70 2.21 -1.18	51.37 2.40 -0.93	55.91 1.93 -0.28	62.89 1.63 -0.78	60.40 1.40 -0.64	50.95 1.33 -0.45	45.81 1.43 -0.93	41.55 2.57 -0.67	37.12 1.98 -0.38
HOMER_HL_115KV_TB2 355744	33.84 0.20 0.00	30.15 0.36 0.00	29.89 0.15 0.00	28.20 -0.23 0.00	29.11 0.00 0.00	31.49 0.19 0.00	40.71 -0.24 -0.79	44.29 -0.75 -0.97	40.91 -1.32 -0.97	38.07 -0.98 -1.26	37.75 -0.26 -1.23	37.30 -0.70 -1.17	39.19 -0.54 -1.12	40.76 0.04 -0.93	42.89 0.86 -0.95	45.27 -0.18 -1.14	50.05 0.05 -1.96	56.62 0.75 -2.17	64.76 1.39 -2.90	61.90 0.82 -2.73	51.18 0.20 -1.81	45.50 0.22 -1.84	38.57 -0.54 -0.79	36.84 0.66 -1.43
HOWARD_WT_PWR 323690	34.61 0.98 0.00	30.69 0.89 0.00	30.51 0.77 0.00	28.99 0.57 0.00	29.75 0.64 0.00	32.30 1.00 0.00	41.92 0.76 -0.99	45.73 0.44 -1.22	42.44 -0.04 -1.21	39.15 -0.23 -1.59	38.61 0.29 -1.55	38.23 -0.07 -1.48	40.10 0.08 -1.41	41.87 0.92 -1.16	43.30 1.03 -1.19	46.76 1.02 -1.43	51.71 1.20 -2.46	58.67 2.25 -2.71	67.61 3.51 -3.63	64.92 3.15 -3.41	53.85 2.41 -2.27	47.40 1.65 -2.30	40.19 0.88 -0.99	38.11 1.57 -1.79
HQ_GEN_CEDARS 23644	137.10 0.03 -103.43	141.60 0.03 -111.77	51.36 0.03 -21.59	61.54 0.06 -33.06	60.70 0.03 -31.55	82.72 0.03 -51.39	132.82 0.08 -92.58	128.17 0.13 -83.96	127.95 0.17 -86.52	130.65 0.19 -92.68	52.10 0.15 -15.18	52.03 0.15 -15.06	57.69 0.12 -18.96	82.67 0.08 -42.80	96.58 0.08 -55.42	126.54 0.13 -82.10	122.90 0.14 -74.71	156.88 0.11 -103.08	148.77 0.06 -88.24	118.03 0.06 -59.61	121.92 0.05 -72.70	129.04 0.13 -85.46	133.42 0.11 -94.99	96.29 0.03 -61.50
HQ_GEN_CEDARS_PROXY 323590	137.10 0.03 -103.43	141.60 0.03 -111.77	51.36 0.03 -21.59	61.54 0.06 -33.06	60.70 0.03 -31.55	82.72 0.03 -51.39	132.74 0.00 -92.58	128.04 0.00 -83.96	127.83 0.04 -86.52	130.58 0.11 -92.68	52.03 0.07 -15.18	51.92 0.04 -15.06	57.57 0.00 -18.96	82.59 0.00 -42.80	96.50 0.00 -55.42	126.41 0.00 -82.10	122.76 0.00 -74.71	156.72 -0.05 -103.08	148.59 -0.12 -88.24	117.85 -0.12 -59.61	121.77 -0.10 -72.70	128.91 0.00 -85.46	133.34 0.04 -94.99	96.29 0.03 -61.50



HQ_GEN_IMPORT 323601	29.52 -0.23 3.89	25.39 -0.21 4.20	28.72 -0.21 0.81	27.01 -0.17 1.24	27.75 -0.17 1.19	29.15 -0.22 1.93	36.41 -0.28 3.48	40.56 -0.35 3.15	37.73 -0.29 3.25	34.08 -0.23 3.48	35.98 -0.22 0.57	36.04 -0.22 0.57	37.63 -0.27 0.71	37.91 -0.28 1.61	38.71 -0.29 2.08	40.87 -0.36 3.08	44.85 -0.39 2.81	49.39 -0.43 3.87	56.61 -0.55 3.32	55.59 -0.53 2.24	46.00 -0.44 2.73	39.89 -0.35 3.21	34.48 -0.27 3.57	32.20 -0.24 2.31
HQ_GEN_WHEEL 23651	29.52 -0.23 3.89	25.39 -0.21 4.20	28.72 -0.21 0.81	27.01 -0.17 1.24	27.75 -0.17 1.19	29.15 -0.22 1.93	36.41 -0.28 3.48	40.56 -0.35 3.15	37.73 -0.29 3.25	34.08 -0.23 3.48	35.98 -0.22 0.57	36.04 -0.22 0.57	37.63 -0.27 0.71	37.91 -0.28 1.61	38.71 -0.29 2.08	40.87 -0.36 3.08	44.85 -0.39 2.81	49.39 -0.43 3.87	56.61 -0.55 3.32	55.59 -0.53 2.24	46.00 -0.44 2.73	39.89 -0.35 3.21	34.48 -0.27 3.57	32.20 -0.24 2.31
HUDSON AVE_GT_3 23810	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.26 2.97 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.89 3.28 -0.79	42.94 3.28 -1.04	43.88 3.14 -0.94	45.15 3.04 -1.03	48.54 3.06 -1.18	52.00 3.03 -0.93	56.94 2.95 -0.29	64.22 2.96 -0.78	61.81 2.80 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.28 2.30 -0.67	36.95 1.81 -0.38
HUDSON AVE_GT_4 23540	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.26 2.97 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.89 3.28 -0.79	42.94 3.28 -1.04	43.88 3.14 -0.94	45.15 3.04 -1.03	48.54 3.06 -1.18	52.00 3.03 -0.93	56.94 2.95 -0.29	64.22 2.96 -0.78	61.81 2.80 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.28 2.30 -0.67	36.95 1.81 -0.38
HUDSON AVE_GT_5 23657	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.26 2.97 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.89 3.28 -0.79	42.94 3.28 -1.04	43.88 3.14 -0.94	45.15 3.04 -1.03	48.54 3.06 -1.18	52.00 3.03 -0.93	56.94 2.95 -0.29	64.22 2.96 -0.78	61.81 2.80 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.28 2.30 -0.67	36.95 1.81 -0.38
HUDSON_AVE_10 24168	35.57 1.51 -0.42	31.25 1.28 -0.18	31.07 1.16 -0.17	29.53 1.11 0.00	30.39 1.25 -0.03	32.85 1.38 -0.17	43.07 2.21 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.82 3.17 -1.04	43.72 2.98 -0.94	45.03 2.92 -1.03	48.36 2.88 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.21 2.22 -0.67	36.84 1.70 -0.38
HUDSON___115KV_TB 4 355613	33.93 0.61 0.32	30.20 0.54 0.13	30.24 0.62 0.13	29.02 0.60 0.00	29.67 0.58 0.02	31.79 0.63 0.13	40.40 0.76 0.52	44.14 0.84 0.77	41.08 0.58 0.76	36.92 0.45 1.32	36.39 0.15 0.53	36.42 0.18 0.59	37.94 0.12 0.78	39.16 0.08 0.71	40.39 0.08 0.77	43.65 0.22 0.88	47.73 0.38 0.70	54.18 0.70 0.21	60.79 0.91 0.59	58.75 0.88 0.48	49.57 0.74 0.34	43.44 0.70 0.70	38.50 0.69 0.50	34.95 0.49 0.29
HUNTER MOUNT___DRP 323613	35.55 1.92 0.00	31.53 1.73 0.00	31.56 1.81 0.00	30.04 1.62 0.00	30.63 1.51 0.00	33.15 1.85 0.00	42.62 2.45 0.00	46.72 2.64 0.00	43.16 1.90 0.00	39.18 1.40 0.00	37.77 0.99 0.00	37.75 0.92 0.00	39.65 1.04 0.00	40.79 0.99 0.00	42.15 1.07 0.00	45.86 1.55 0.00	49.82 1.78 0.00	56.33 2.63 0.00	63.49 3.02 0.00	61.51 3.15 0.00	51.88 2.70 0.00	45.71 2.26 0.00	40.38 2.07 0.00	36.60 1.84 0.00
HUNTINGTON_RES_REC 323705	35.37 1.31 -0.42	30.96 0.98 -0.18	30.38 0.47 -0.17	28.88 0.45 0.00	29.78 0.64 -0.03	32.13 0.66 -0.17	42.31 1.44 -0.70	46.10 1.01 -1.01	44.18 1.90 -1.02	42.27 2.72 -1.76	40.31 2.83 -0.71	40.72 3.09 -0.79	42.05 2.39 -1.04	42.84 2.11 -0.94	43.96 1.85 -1.03	47.21 1.73 -1.18	50.84 1.87 -0.93	55.37 1.39 -0.28	62.34 1.09 -0.78	59.93 0.93 -0.64	50.51 0.89 -0.45	45.33 0.95 -0.93	41.13 2.14 -0.67	36.84 1.70 -0.38
HUNTLEY___63 23557	33.97 0.34 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.51 0.09 0.00	29.23 0.12 0.00	31.49 0.19 0.00	40.16 -0.76 -0.76	43.37 -1.63 -0.93	40.37 -1.82 -0.92	37.63 -1.36 -1.21	37.51 -0.44 -1.18	36.92 -1.03 -1.12	38.83 -0.85 -1.07	40.64 -0.04 -0.89	42.69 0.70 -0.90	45.26 -0.13 -1.09	50.16 0.24 -1.87	56.90 1.13 -2.07	65.18 1.93 -2.78	62.37 1.40 -2.61	51.55 0.64 -1.73	45.51 0.30 -1.76	38.42 -0.65 -0.76	37.27 1.15 -1.37
HUNTLEY___64 23558	33.97 0.34 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.51 0.09 0.00	29.23 0.12 0.00	31.49 0.19 0.00	40.16 -0.76 -0.76	43.37 -1.63 -0.93	40.37 -1.82 -0.92	37.63 -1.36 -1.21	37.51 -0.44 -1.18	36.92 -1.03 -1.12	38.83 -0.85 -1.07	40.64 -0.04 -0.89	42.69 0.70 -0.90	45.26 -0.13 -1.09	50.16 0.24 -1.87	56.90 1.13 -2.07	65.18 1.93 -2.78	62.37 1.40 -2.61	51.55 0.64 -1.73	45.51 0.30 -1.76	38.42 -0.65 -0.76	37.27 1.15 -1.37
HUNTLEY___65 23559	33.97 0.34 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.51 0.09 0.00	29.23 0.12 0.00	31.49 0.19 0.00	40.16 -0.76 -0.76	43.37 -1.63 -0.93	40.37 -1.82 -0.92	37.63 -1.36 -1.21	37.51 -0.44 -1.18	36.92 -1.03 -1.12	38.83 -0.85 -1.07	40.64 -0.04 -0.89	42.69 0.70 -0.90	45.26 -0.13 -1.09	50.16 0.24 -1.87	56.90 1.13 -2.07	65.18 1.93 -2.78	62.37 1.40 -2.61	51.55 0.64 -1.73	45.51 0.30 -1.76	38.42 -0.65 -0.76	37.27 1.15 -1.37
HUNTLEY___66 23560	33.97 0.34 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.51 0.09 0.00	29.23 0.12 0.00	31.49 0.19 0.00	40.16 -0.76 -0.76	43.37 -1.63 -0.93	40.37 -1.82 -0.92	37.63 -1.36 -1.21	37.51 -0.44 -1.18	36.92 -1.03 -1.12	38.83 -0.85 -1.07	40.64 -0.04 -0.89	42.69 0.70 -0.90	45.26 -0.13 -1.09	50.16 0.24 -1.87	56.90 1.13 -2.07	65.18 1.93 -2.78	62.37 1.40 -2.61	51.55 0.64 -1.73	45.51 0.30 -1.76	38.42 -0.65 -0.76	37.27 1.15 -1.37
HUNTLEY___67 23561	33.81 0.17 0.00	30.15 0.36 0.00	29.89 0.15 0.00	28.34 -0.09 0.00	29.08 -0.03 0.00	31.33 0.03 0.00	40.00 -0.92 -0.76	43.28 -1.72 -0.93	40.25 -1.94 -0.93	37.56 -1.44 -1.21	37.37 -0.59 -1.18	36.81 -1.14 -1.13	38.72 -0.97 -1.08	40.44 -0.24 -0.89	42.48 0.49 -0.91	45.05 -0.35 -1.09	49.88 -0.05 -1.88	56.58 0.81 -2.08	64.83 1.57 -2.79	62.03 1.05 -2.62	51.31 0.39 -1.74	45.30 0.09 -1.76	38.27 -0.80 -0.76	36.89 0.76 -1.37
HUNTLEY___68 23562	33.81 0.17 0.00	30.15 0.36 0.00	29.89 0.15 0.00	28.34 -0.09 0.00	29.08 -0.03 0.00	31.33 0.03 0.00	40.00 -0.92 -0.76	43.28 -1.72 -0.93	40.25 -1.94 -0.93	37.56 -1.44 -1.21	37.37 -0.59 -1.18	36.81 -1.14 -1.13	38.72 -0.97 -1.08	40.44 -0.24 -0.89	42.48 0.49 -0.91	45.05 -0.35 -1.09	49.88 -0.05 -1.88	56.58 0.81 -2.08	64.83 1.57 -2.79	62.03 1.05 -2.62	51.31 0.39 -1.74	45.30 0.09 -1.76	38.27 -0.80 -0.76	36.89 0.76 -1.37



HYLAND___LFGE 323620	35.52 1.88 0.00	31.55 1.76 0.00	31.26 1.52 0.00	29.90 1.48 0.00	30.45 1.34 0.00	33.18 1.88 0.00	43.03 2.01 -0.86	46.90 1.76 -1.06	43.27 0.95 -1.06	39.40 0.23 -1.38	38.60 0.48 -1.35	38.15 0.04 -1.29	39.99 0.16 -1.23	41.88 1.07 -1.01	43.31 1.19 -1.03	47.06 1.51 -1.24	52.49 2.31 -2.15	59.98 3.92 -2.36	69.62 5.99 -3.17	66.76 5.43 -2.98	55.63 4.47 -1.98	48.80 3.35 -2.00	41.40 2.22 -0.87	38.92 2.61 -1.56
INDECK___CORINTH 23802	34.36 1.14 0.42	30.51 0.89 0.18	30.55 0.98 0.17	29.39 0.97 0.00	30.02 0.93 0.03	32.25 1.13 0.17	40.71 1.25 0.70	44.33 1.28 1.02	40.33 0.08 1.02	35.95 -0.08 1.76	35.33 -0.74 0.71	35.20 -0.85 0.79	36.72 -0.85 1.04	38.05 -0.80 0.94	39.36 -0.70 1.03	42.87 -0.26 1.18	47.45 0.34 0.94	54.91 1.50 0.29	61.80 2.12 0.78	59.81 2.10 0.64	50.39 1.67 0.46	43.86 1.35 0.94	38.94 1.30 0.67	35.31 0.94 0.38
INDECK___ILION 23567	35.62 0.20 -1.78	31.90 0.18 -1.92	30.29 0.18 -0.37	29.14 0.14 -0.57	29.80 0.15 -0.54	32.37 0.19 -0.88	42.04 0.28 -1.59	45.87 0.35 -1.45	43.04 0.29 -1.49	39.65 0.26 -1.60	37.26 0.22 -0.26	37.34 0.26 -0.26	39.21 0.27 -0.33	40.77 0.24 -0.74	42.24 0.21 -0.95	46.03 0.31 -1.41	49.67 0.34 -1.29	55.85 0.38 -1.77	62.41 0.42 -1.52	59.85 0.47 -1.03	50.77 0.34 -1.25	45.27 0.35 -1.47	40.22 0.27 -1.63	36.02 0.21 -1.06
INDECK___OLEAN 23982	33.94 0.30 0.00	30.16 0.36 0.00	29.83 0.09 0.00	28.20 -0.23 0.00	28.94 -0.17 0.00	31.49 0.19 0.00	40.63 -0.32 -0.79	44.29 -0.75 -0.97	40.87 -1.36 -0.97	37.99 -1.06 -1.26	37.75 -0.26 -1.23	37.45 -0.55 -1.17	39.31 -0.42 -1.12	41.20 0.48 -0.93	42.60 0.57 -0.95	45.76 0.31 -1.14	49.91 -0.10 -1.96	56.46 0.59 -2.17	64.70 1.33 -2.90	61.79 0.70 -2.73	51.28 0.30 -1.81	45.20 -0.09 -1.84	38.99 -0.11 -0.79	36.88 0.69 -1.43
INDECK___OSWEGO 23783	36.31 -0.47 -3.14	32.78 -0.42 -3.40	29.95 -0.45 -0.66	29.00 -0.43 -1.00	29.60 -0.47 -0.96	32.42 -0.44 -1.56	45.63 -0.60 -6.07	49.90 -0.66 -6.48	47.15 -0.66 -6.55	45.00 -0.72 -7.93	41.57 -0.66 -5.45	41.39 -0.66 -5.22	43.08 -0.66 -5.12	44.29 -0.56 -5.06	46.02 -0.58 -5.52	50.48 -0.93 -7.10	57.25 -1.01 -10.22	64.73 -1.02 -12.06	74.08 -1.03 -14.64	70.47 -0.94 -13.05	58.02 -0.84 -9.68	52.79 -0.83 -10.17	43.93 -0.54 -6.15	42.09 -0.42 -7.75
INDECK___YERKES 23781	34.11 0.47 0.00	30.36 0.56 0.00	30.04 0.30 0.00	28.68 0.26 0.00	29.05 -0.06 0.00	31.52 0.22 0.00	40.12 -0.80 -0.76	43.46 -1.54 -0.93	40.42 -1.77 -0.92	37.63 -1.36 -1.21	37.58 -0.37 -1.18	37.21 -0.74 -1.12	39.10 -0.58 -1.07	41.24 0.56 -0.89	42.36 0.37 -0.90	45.31 -0.09 -1.09	50.01 0.10 -1.87	56.74 0.97 -2.07	65.18 1.93 -2.78	62.25 1.28 -2.61	51.60 0.69 -1.73	45.64 0.43 -1.76	38.76 -0.31 -0.76	37.30 1.18 -1.37
INDIAN POINT_GT_1 24139	35.47 1.41 -0.42	31.16 1.19 -0.18	31.04 1.13 -0.17	29.48 1.05 0.00	30.30 1.16 -0.03	32.72 1.25 -0.17	42.83 1.97 -0.70	47.38 2.29 -1.02	44.76 2.48 -1.01	42.00 2.46 -1.75	39.98 2.50 -0.71	40.30 2.69 -0.78	42.39 2.74 -1.04	43.32 2.59 -0.94	44.61 2.51 -1.02	48.05 2.57 -1.17	51.52 2.55 -0.93	56.45 2.47 -0.29	63.67 2.42 -0.78	61.34 2.33 -0.64	51.60 1.97 -0.46	46.25 1.87 -0.93	40.86 1.88 -0.67	36.63 1.49 -0.38
INDIAN POINT_GT_2 23659	35.47 1.41 -0.42	31.16 1.19 -0.18	31.04 1.13 -0.17	29.48 1.05 0.00	30.30 1.16 -0.03	32.72 1.25 -0.17	42.83 1.97 -0.70	47.38 2.29 -1.02	44.76 2.48 -1.01	42.00 2.46 -1.75	39.98 2.50 -0.71	40.30 2.69 -0.78	42.39 2.74 -1.04	43.32 2.59 -0.94	44.61 2.51 -1.02	48.05 2.57 -1.17	51.52 2.55 -0.93	56.45 2.47 -0.29	63.67 2.42 -0.78	61.34 2.33 -0.64	51.60 1.97 -0.46	46.25 1.87 -0.93	40.86 1.88 -0.67	36.63 1.49 -0.38
INDIAN POINT_GT_3 24019	35.47 1.41 -0.42	31.16 1.19 -0.18	31.04 1.13 -0.17	29.48 1.05 0.00	30.30 1.16 -0.03	32.72 1.25 -0.17	42.83 1.97 -0.70	47.38 2.29 -1.02	44.76 2.48 -1.01	42.00 2.46 -1.75	39.98 2.50 -0.71	40.30 2.69 -0.78	42.39 2.74 -1.04	43.32 2.59 -0.94	44.61 2.51 -1.02	48.05 2.57 -1.17	51.52 2.55 -0.93	56.45 2.47 -0.29	63.67 2.42 -0.78	61.34 2.33 -0.64	51.60 1.97 -0.46	46.25 1.87 -0.93	40.86 1.88 -0.67	36.63 1.49 -0.38
INDIAN POINT___2 23530	35.50 1.45 -0.42	31.22 1.25 -0.18	31.04 1.13 -0.17	29.50 1.08 0.00	30.31 1.17 -0.03	32.76 1.28 -0.17	42.99 2.13 -0.70	47.56 2.47 -1.02	44.96 2.68 -1.02	42.23 2.72 -1.76	40.20 2.87 -0.71	40.49 2.87 -0.79	42.55 2.90 -1.04	43.48 2.74 -0.94	44.91 2.80 -1.03	48.32 2.84 -1.18	51.91 2.93 -0.93	56.83 2.84 -0.29	64.04 2.78 -0.78	61.69 2.69 -0.64	51.85 2.21 -0.46	46.51 2.13 -0.94	40.86 1.88 -0.67	36.60 1.46 -0.38
INDIAN POINT___3 23531	35.36 1.31 -0.41	31.13 1.16 -0.17	30.97 1.07 -0.16	29.42 0.99 0.00	30.25 1.11 -0.03	32.69 1.22 -0.17	42.73 1.89 -0.68	47.27 2.20 -0.99	44.56 2.31 -0.99	41.80 2.30 -1.70	39.81 2.35 -0.69	40.13 2.54 -0.76	42.17 2.55 -1.01	43.13 2.43 -0.91	44.42 2.34 -1.00	47.84 2.39 -1.14	51.25 2.31 -0.91	56.23 2.26 -0.28	63.46 2.24 -0.76	61.08 2.10 -0.62	51.39 1.77 -0.44	46.05 1.69 -0.91	40.80 1.84 -0.65	36.59 1.46 -0.37
INGHAM_C_115KV_TB7 356103	35.62 0.20 -1.78	31.87 0.15 -1.92	30.26 0.15 -0.37	29.08 0.09 -0.57	29.77 0.12 -0.54	32.34 0.16 -0.88	42.04 0.28 -1.59	45.87 0.35 -1.45	43.04 0.29 -1.49	39.61 0.23 -1.60	37.26 0.22 -0.26	37.34 0.26 -0.26	39.21 0.27 -0.33	40.73 0.20 -0.74	42.20 0.16 -0.95	46.03 0.31 -1.41	49.71 0.38 -1.29	55.74 0.27 -1.77	62.35 0.36 -1.52	59.85 0.47 -1.03	50.72 0.30 -1.25	45.23 0.30 -1.47	40.18 0.23 -1.63	35.99 0.17 -1.06
IP CORINTH___1 23988	34.56 1.35 0.42	30.69 1.07 0.18	30.82 1.25 0.17	29.53 1.11 0.00	30.19 1.11 0.03	32.44 1.31 0.17	40.95 1.49 0.70	44.55 1.50 1.02	40.54 0.29 1.02	36.14 0.11 1.76	35.55 -0.51 0.71	35.41 -0.63 0.79	36.91 -0.66 1.04	38.33 -0.52 0.94	39.52 -0.53 1.03	43.04 -0.09 1.18	47.64 0.53 0.94	55.13 1.72 0.29	62.04 2.36 0.78	60.11 2.39 0.64	50.64 1.92 0.46	44.03 1.52 0.94	39.17 1.53 0.67	35.48 1.11 0.38
IP___TICONDEROGA 23804	35.90 2.69 0.43	31.82 2.20 0.18	32.07 2.50 0.17	30.67 2.25 0.00	31.35 2.27 0.03	33.75 2.63 0.18	42.55 3.09 0.71	46.17 3.13 1.04	41.51 1.28 1.03	36.91 0.91 1.79	36.05 0.00 0.72	35.92 -0.11 0.80	37.47 -0.08 1.06	39.07 0.24 0.96	40.33 0.29 1.04	44.14 1.02 1.19	49.16 2.07 0.95	57.54 4.13 0.29	65.18 5.50 0.80	63.08 5.37 0.65	53.09 4.38 0.46	46.06 3.56 0.95	40.85 3.22 0.68	36.87 2.50 0.39
ISLIP_RES_REC 323679	35.74 1.68 -0.42	31.25 1.28 -0.18	30.65 0.74 -0.17	29.14 0.71 0.00	30.04 0.90 -0.03	32.41 0.94 -0.17	42.67 1.81 -0.70	46.72 1.63 -1.01	44.72 2.43 -1.02	42.68 3.38 -0.71	40.86 3.72 -0.79	41.34 3.13 -1.04	42.78 3.13 -1.04	43.64 2.90 -0.94	44.70 2.59 -1.03	48.01 2.52 -1.18	51.76 2.79 -0.93	56.28 2.31 -0.28	63.31 2.06 -0.78	60.81 1.81 -0.64	51.24 1.62 -0.45	46.07 1.69 -0.93	41.74 2.76 -0.67	37.29 2.16 -0.38



JAMAICA__27_KV_LOAD 355505	35.64 1.58 -0.42	31.28 1.31 -0.18	31.10 1.19 -0.17	29.53 1.11 0.00	30.39 1.25 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.96 2.86 -1.02	45.26 2.97 -1.02	42.57 3.02 -1.76	40.68 3.20 -0.71	41.00 3.39 -0.79	42.90 3.24 -1.04	43.84 3.10 -0.94	45.19 3.08 -1.03	48.54 3.06 -1.18	52.10 3.12 -0.93	57.10 3.11 -0.29	64.34 3.08 -0.78	61.98 2.98 -0.64	52.14 2.51 -0.46	46.78 2.39 -0.94	41.44 2.45 -0.67	36.98 1.84 -0.38
JANIS__SOLAR 323808	35.08 1.45 0.00	31.02 1.22 0.00	30.99 1.25 0.00	29.45 1.02 0.00	30.28 1.17 0.00	32.77 1.47 0.00	43.13 1.89 -1.08	47.55 2.16 -1.32	44.19 1.61 -1.32	40.41 0.91 -1.72	39.26 0.81 -1.68	39.13 0.70 -1.60	40.91 0.77 -1.53	42.09 1.03 -1.26	43.48 1.11 -1.29	47.54 1.68 -1.55	52.88 2.16 -2.67	59.65 3.01 -2.95	68.41 3.99 -3.95	66.22 4.14 -3.71	54.89 3.24 -2.47	48.47 2.52 -2.50	41.23 1.84 -1.08	38.47 1.77 -1.94
JARVIS____ 23743	35.55 0.14 -1.78	31.84 0.12 -1.92	30.23 0.12 -0.37	29.11 0.11 -0.57	29.77 0.12 -0.54	32.31 0.13 -0.88	41.96 0.20 -1.59	45.78 0.27 -1.45	42.96 0.21 -1.49	39.57 0.19 -1.60	37.18 0.15 -0.26	37.27 0.19 -0.26	39.13 0.19 -0.33	40.69 0.16 -0.74	42.20 0.16 -0.95	45.95 0.22 -1.41	49.57 0.24 -1.29	55.74 0.27 -1.77	62.29 0.30 -1.52	59.74 0.35 -1.03	50.67 0.25 -1.25	45.18 0.26 -1.47	40.14 0.19 -1.63	35.95 0.14 -1.06
JENNISON____1 23625	35.12 1.48 0.00	31.08 1.28 0.00	31.05 1.31 0.00	29.50 1.08 0.00	30.33 1.22 0.00	32.77 1.47 0.00	42.94 1.97 -0.81	47.36 2.29 -0.99	44.11 1.86 -0.99	40.40 1.32 -1.29	39.28 1.25 -1.26	39.21 1.18 -1.20	41.11 1.35 -1.15	42.17 1.43 -0.95	43.61 1.56 -0.97	47.47 1.99 -1.16	52.40 2.35 -2.01	58.93 3.01 -2.22	67.20 3.75 -2.98	65.07 3.91 -2.80	54.04 3.00 -1.86	47.81 2.48 -1.89	40.96 1.84 -0.81	37.99 1.77 -1.47
JENNISON____2 23626	35.12 1.48 0.00	31.08 1.28 0.00	31.05 1.31 0.00	29.50 1.08 0.00	30.33 1.22 0.00	32.77 1.47 0.00	42.94 1.97 -0.81	47.36 2.29 -0.99	44.11 1.86 -0.99	40.40 1.32 -1.29	39.28 1.25 -1.26	39.21 1.18 -1.20	41.11 1.35 -1.15	42.17 1.43 -0.95	43.61 1.56 -0.97	47.47 1.99 -1.16	52.40 2.35 -2.01	58.93 3.01 -2.22	67.20 3.75 -2.98	65.07 3.91 -2.80	54.04 3.00 -1.86	47.81 2.48 -1.89	40.96 1.84 -0.81	37.99 1.77 -1.47
JERICOHO_RISE_WT_PWR 323719	45.17 0.44 -11.10	42.21 0.42 -12.00	32.51 0.45 -2.32	32.46 0.48 -3.55	32.99 0.49 -3.39	37.31 0.50 -5.52	50.34 0.24 -9.94	53.17 0.09 -9.01	50.76 0.21 -9.29	48.30 0.57 -9.95	38.92 0.51 -1.63	38.92 0.48 -1.62	41.07 0.43 -2.04	44.82 0.44 -4.59	47.53 0.49 -5.95	53.30 0.18 -8.81	56.26 0.19 -8.02	64.98 0.22 -11.06	70.06 0.12 -9.47	64.76 0.00 -6.40	56.98 0.00 -7.80	52.67 0.04 -9.17	48.78 0.27 -10.20	41.84 0.49 -6.60
KATONAH__115KV_46KV_TB4 355592	35.60 1.55 -0.42	31.28 1.31 -0.17	31.18 1.28 -0.16	29.62 1.19 0.00	30.45 1.31 -0.03	32.88 1.41 -0.17	42.98 2.13 -0.69	47.55 2.47 -1.01	44.95 2.68 -1.01	42.13 2.61 -1.74	40.12 2.65 -0.70	40.40 2.80 -0.78	42.58 2.93 -1.03	43.51 2.79 -0.93	44.81 2.71 -1.02	48.31 2.84 -1.16	51.71 2.74 -0.92	56.72 2.74 -0.28	64.02 2.78 -0.77	61.68 2.68 -0.64	51.89 2.26 -0.45	46.50 2.13 -0.92	41.05 2.07 -0.66	36.80 1.67 -0.38
KCE_NY_1 323755	34.66 1.45 0.42	30.82 1.19 0.17	30.82 1.25 0.17	29.65 1.22 0.00	30.28 1.19 0.03	32.50 1.38 0.17	41.20 1.73 0.69	44.91 1.85 1.02	41.33 1.07 1.01	36.91 0.87 1.75	36.44 0.37 0.70	36.34 0.29 0.78	37.88 0.31 1.04	39.25 0.40 0.94	40.56 0.49 1.02	43.94 0.80 1.17	48.41 1.30 0.93	55.56 2.15 0.28	62.35 2.66 0.78	60.35 2.63 0.64	50.88 2.16 0.45	44.39 1.87 0.93	39.37 1.73 0.67	35.69 1.32 0.38
KCE_NY_6_ESR 323823	34.21 0.57 0.00	30.39 0.60 0.00	30.10 0.36 0.00	28.57 0.14 0.00	29.14 0.03 0.00	31.64 0.34 0.00	40.37 -0.56 -0.77	43.92 -1.10 -0.95	40.76 -1.45 -0.94	37.96 -1.06 -1.23	37.83 -0.15 -1.20	37.49 -0.48 -1.15	39.35 -0.35 -1.09	41.45 0.75 -0.90	42.66 0.66 -0.92	45.68 0.27 -1.11	50.39 0.43 -1.91	57.10 1.29 -2.11	65.60 2.30 -2.83	62.71 1.69 -2.66	51.98 1.03 -1.77	45.93 0.69 -1.79	39.09 0.00 -0.77	37.23 1.08 -1.39
KEDC_PORT_JEFF_GT2 24210	35.50 1.45 -0.42	31.08 1.10 -0.18	30.47 0.56 -0.17	28.96 0.54 0.00	29.87 0.73 -0.03	32.22 0.75 -0.17	42.39 1.53 -0.70	46.37 1.28 -1.01	44.39 2.10 -1.02	42.38 2.84 -1.76	40.50 3.02 -0.71	40.97 3.35 -0.79	42.40 2.74 -1.04	43.20 2.47 -0.94	44.29 2.18 -1.03	47.57 2.08 -1.18	51.23 2.26 -0.93	55.75 1.77 -0.28	62.34 1.09 -0.78	59.93 0.93 -0.64	50.80 1.18 -0.45	45.73 1.35 -0.93	41.47 2.49 -0.67	37.05 1.91 -0.38
KEDC_PORT_JEFF_GT3 24211	35.50 1.45 -0.42	31.08 1.10 -0.18	30.47 0.56 -0.17	28.96 0.54 0.00	29.87 0.73 -0.03	32.22 0.75 -0.17	42.39 1.53 -0.70	46.37 1.28 -1.01	44.39 2.10 -1.02	42.38 2.84 -1.76	40.50 3.02 -0.71	40.97 3.35 -0.79	42.40 2.74 -1.04	43.20 2.47 -0.94	44.29 2.18 -1.03	47.57 2.08 -1.18	51.23 2.26 -0.93	55.75 1.77 -0.28	62.34 1.09 -0.78	59.93 0.93 -0.64	50.80 1.18 -0.45	45.73 1.35 -0.93	41.47 2.49 -0.67	37.05 1.91 -0.38
KEDC_GLWD_GT4 24219	35.67 1.61 -0.42	31.32 1.34 -0.18	30.95 1.04 -0.17	29.42 0.99 0.00	30.27 1.13 -0.03	32.73 1.25 -0.17	42.99 2.13 -0.70	47.38 2.29 -1.02	44.97 2.68 -1.02	42.57 3.02 -1.76	40.61 3.12 -0.71	40.98 3.35 -0.80	42.78 3.13 -1.04	43.68 2.94 -0.94	44.94 2.83 -1.03	48.32 2.84 -1.18	51.57 2.59 -0.93	56.34 2.36 -0.28	63.55 2.30 -0.78	61.16 2.16 -0.64	51.39 1.77 -0.45	46.42 2.04 -0.93	41.36 2.38 -0.67	37.01 1.88 -0.38
KEDC_GLWD_GT5 24220	35.67 1.61 -0.42	31.32 1.34 -0.18	30.95 1.04 -0.17	29.42 0.99 0.00	30.27 1.13 -0.03	32.73 1.25 -0.17	42.99 2.13 -0.70	47.38 2.29 -1.02	44.97 2.68 -1.02	42.57 3.02 -1.76	40.61 3.12 -0.71	40.98 3.35 -0.80	42.78 3.13 -1.04	43.68 2.94 -0.94	44.94 2.83 -1.03	48.32 2.84 -1.18	51.57 2.59 -0.93	56.34 2.36 -0.28	63.55 2.30 -0.78	61.16 2.16 -0.64	51.39 1.77 -0.45	46.42 2.04 -0.93	41.36 2.38 -0.67	37.01 1.88 -0.38
KENSICO____ 23655	35.50 1.45 -0.42	31.22 1.25 -0.18	31.07 1.16 -0.17	29.53 1.11 0.00	30.36 1.22 -0.03	32.79 1.31 -0.17	42.91 2.05 -0.70	47.52 2.42 -1.02	44.88 2.60 -1.02	42.15 2.61 -1.76	40.17 2.68 -0.71	40.45 2.84 -0.78	42.51 2.86 -1.04	43.44 2.71 -0.94	44.74 2.63 -1.03	48.14 2.66 -1.17	51.62 2.64 -0.93	56.51 2.52 -0.29	63.79 2.54 -0.78	61.40 2.39 -0.64	51.65 2.02 -0.46	46.34 1.96 -0.93	40.98 1.99 -0.67	36.70 1.56 -0.38
KERHONKS_69_KV_TR1_REV_LBMP_G 345021	35.85 1.98 -0.23	31.65 1.76 -0.10	31.50 1.67 -0.09	30.07 1.65 0.00	30.79 1.66 -0.02	33.21 1.82 -0.09	43.20 2.65 -0.38	47.63 3.00 -0.56	44.59 2.76 -0.56	41.28 2.53 -0.96	39.66 2.50 -0.39	39.83 2.58 -0.43	41.81 2.63 -0.57	42.81 2.51 -0.51	44.15 2.51 -0.56	47.70 2.75 -0.64	51.24 2.69 -0.51	56.81 2.95 -0.16	63.92 3.02 -0.43	61.80 3.09 -0.35	52.08 2.66 -0.25	46.31 2.35 -0.51	41.02 2.34 -0.37	36.94 1.98 -0.21



KIAC_JFK_GT1 23816	35.44 1.38 -0.42	31.11 1.13 -0.18	30.92 1.01 -0.17	29.39 0.97 0.00	30.25 1.11 -0.03	32.76 1.28 -0.17	42.83 1.97 -0.70	47.52 2.42 -1.02	44.88 2.60 -1.02	42.23 2.68 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.55 2.90 -1.04	43.48 2.75 -0.94	44.74 2.63 -1.03	48.10 2.61 -1.18	51.62 2.64 -0.93	56.51 2.52 -0.29	63.67 2.42 -0.78	61.34 2.33 -0.64	51.60 1.97 -0.46	46.34 1.96 -0.94	41.17 2.18 -0.67	36.77 1.63 -0.38
KIAC_JFK_GT2 23817	35.44 1.38 -0.42	31.11 1.13 -0.18	30.92 1.01 -0.17	29.39 0.97 0.00	30.25 1.11 -0.03	32.76 1.28 -0.17	42.83 1.97 -0.70	47.52 2.42 -1.02	44.88 2.60 -1.02	42.23 2.68 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.55 2.90 -1.04	43.48 2.75 -0.94	44.74 2.63 -1.03	48.10 2.61 -1.18	51.62 2.64 -0.93	56.51 2.52 -0.29	63.67 2.42 -0.78	61.34 2.33 -0.64	51.60 1.97 -0.46	46.34 1.96 -0.94	41.17 2.18 -0.67	36.77 1.63 -0.38
KIAC_JFK____ 323774	35.41 1.35 -0.42	31.11 1.13 -0.18	30.89 0.98 -0.17	29.36 0.94 0.00	30.19 1.05 -0.03	32.73 1.25 -0.17	42.87 2.01 -0.70	47.56 2.47 -1.02	44.97 2.68 -1.02	42.23 2.68 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.55 2.90 -1.04	43.48 2.74 -0.94	44.91 2.80 -1.03	48.32 2.84 -1.18	51.91 2.93 -0.93	56.83 2.84 -0.29	63.98 2.72 -0.78	61.63 2.63 -0.64	51.79 2.16 -0.46	46.51 2.13 -0.94	41.21 2.22 -0.67	36.74 1.60 -0.38
KINTIGH__24_KV_GSU 356498	33.74 0.10 0.00	30.01 0.21 0.00	29.71 -0.03 0.00	28.34 -0.09 0.00	28.82 -0.29 0.00	31.24 -0.06 0.00	39.88 -1.00 -0.71	43.23 -1.72 -0.87	40.28 -1.86 -0.87	37.41 -1.51 -1.14	37.26 -0.63 -1.11	36.89 -0.99 -1.06	38.77 -0.85 -1.01	40.71 0.08 -0.84	41.89 -0.04 -0.85	44.80 -0.53 -1.02	49.38 -0.43 -1.77	56.03 0.38 -1.95	64.17 1.09 -2.62	61.34 0.52 -2.46	51.01 0.20 -1.64	45.15 0.04 -1.66	38.45 -0.57 -0.71	36.63 0.59 -1.29
KINTIGH____ 23543	33.67 0.03 0.00	30.01 0.21 0.00	29.74 0.00 0.00	28.25 -0.17 0.00	29.00 -0.12 0.00	31.21 -0.09 0.00	39.91 -0.96 -0.71	43.18 -1.76 -0.87	40.28 -1.86 -0.87	37.49 -1.44 -1.14	37.22 -0.66 -1.11	36.67 -1.22 -1.06	38.62 -1.00 -1.01	40.27 -0.36 -0.84	42.18 0.25 -0.85	44.80 -0.53 -1.02	49.57 -0.24 -1.77	56.19 0.54 -1.95	64.23 1.15 -2.62	61.52 0.70 -2.46	51.01 0.20 -1.64	45.06 -0.04 -1.66	38.18 -0.84 -0.71	36.60 0.56 -1.29
KNTFSRNC_46_KV_46KV_LOAD 80397	41.49 1.24 -6.61	38.10 1.16 -7.15	32.28 1.16 -1.38	31.73 1.19 -2.11	32.35 1.22 -2.02	35.93 1.35 -3.29	47.97 1.89 -5.92	51.51 2.07 -5.37	48.86 2.06 -5.53	45.75 2.04 -5.93	39.66 1.91 -0.97	39.63 1.84 -0.96	41.71 1.91 -1.21	44.44 2.05 -2.74	46.68 2.22 -3.54	51.77 2.22 -5.25	55.32 2.50 -4.78	63.08 2.79 -6.59	69.13 3.02 -5.64	64.86 2.68 -3.81	56.08 2.26 -4.65	50.91 2.00 -5.46	46.03 1.65 -6.07	40.04 1.36 -3.93
LACHUTE____HYDRO 323717	35.90 2.69 0.43	31.85 2.24 0.18	31.89 2.32 0.17	30.67 2.25 0.00	31.33 2.24 0.03	33.72 2.60 0.18	42.55 3.09 0.71	46.21 3.18 1.04	41.55 1.32 1.03	36.90 0.91 1.79	36.05 0.00 0.72	35.88 -0.15 0.80	37.51 -0.04 1.06	39.08 0.24 0.96	40.41 0.37 1.04	44.22 1.11 1.19	49.26 2.16 0.95	57.65 4.24 0.29	65.23 5.56 0.80	63.19 5.48 0.65	53.19 4.47 0.46	46.15 3.65 0.95	40.88 3.25 0.68	36.87 2.50 0.39
LAWRNCV_115KV_TB1 80681	115.10 0.20 -81.26	117.76 0.15 -87.82	46.80 0.09 -16.96	54.49 0.09 -25.98	53.99 0.09 -24.79	71.80 0.13 -40.38	113.44 0.28 -73.00	110.70 0.35 -66.28	109.89 0.33 -68.29	111.31 0.30 -73.22	49.31 0.22 -12.32	49.26 0.22 -12.21	54.10 0.23 -15.26	73.91 0.20 -33.92	85.13 0.21 -43.84	109.49 0.31 -64.87	107.76 0.38 -59.33	135.78 0.38 -81.70	131.24 0.48 -70.29	106.56 0.47 -47.73	107.28 0.39 -57.72	111.64 0.43 -67.75	113.51 0.31 -74.89	83.72 0.17 -48.79
LEDERLE____ 23769	35.53 1.51 -0.38	31.30 1.34 -0.16	31.11 1.22 -0.15	29.59 1.17 0.00	30.42 1.28 -0.03	32.83 1.38 -0.16	42.88 2.09 -0.63	47.46 2.47 -0.92	44.66 2.48 -0.92	41.83 2.46 -1.59	39.95 2.54 -0.64	40.22 2.69 -0.71	42.29 2.74 -0.94	43.23 2.59 -0.85	44.56 2.55 -0.93	48.03 2.66 -1.06	51.43 2.55 -0.84	56.53 2.58 -0.26	63.78 2.60 -0.71	61.39 2.45 -0.58	51.65 2.07 -0.41	46.21 1.91 -0.84	40.99 2.07 -0.61	36.80 1.70 -0.35
LIGHTHSE_115KV_TB6 355974	41.11 0.13 -7.33	37.81 0.09 -7.93	31.30 0.03 -1.53	30.71 -0.06 -2.34	31.32 -0.03 -2.24	35.04 0.09 -3.64	48.74 0.08 -8.49	52.50 0.18 -8.25	49.74 0.04 -8.43	47.17 -0.19 -9.57	40.62 -0.15 -3.99	40.49 -0.18 -3.85	42.53 -0.08 -4.00	45.02 0.00 -5.23	47.17 -0.08 -6.17	52.83 0.00 -8.52	58.13 0.14 -9.94	66.58 0.27 -12.61	74.41 0.60 -13.34	70.06 0.82 -10.88	59.25 0.49 -9.58	54.38 0.39 -10.54	47.21 0.23 -8.67	42.88 0.28 -7.84
LINDEN COGEN____ 23786	35.44 1.38 -0.42	31.13 1.16 -0.18	30.92 1.01 -0.17	19.77 0.99 9.65	18.69 1.11 11.53	24.12 1.22 8.40	26.37 2.13 15.92	26.67 2.51 19.91	26.67 2.77 17.36	26.67 2.76 13.87	27.26 2.83 12.35	27.26 2.98 12.55	27.51 2.97 14.07	27.51 2.83 15.11	27.26 2.87 16.70	27.51 2.88 19.68	30.30 2.93 20.67	36.17 2.79 20.32	36.45 2.72 26.74	27.76 2.63 33.23	27.76 2.16 23.58	27.76 2.13 17.82	27.26 2.07 13.12	26.32 1.57 10.00
LINDHRST_69_KV_BK1 356055	36.01 1.95 -0.42	31.49 1.52 -0.18	31.01 1.10 -0.17	29.42 0.99 0.00	30.39 1.25 -0.03	32.76 1.28 -0.17	42.99 2.13 -0.70	47.07 1.98 -1.01	44.93 2.64 -1.02	42.76 3.21 -1.76	41.12 3.64 -0.71	41.45 3.83 -0.80	43.44 3.78 -1.04	44.00 3.26 -0.94	44.74 2.63 -1.03	47.97 2.48 -1.18	51.37 2.40 -0.93	56.18 2.20 -0.28	63.49 2.24 -0.78	61.04 2.04 -0.64	51.30 1.67 -0.45	46.07 1.69 -0.93	41.82 2.84 -0.67	37.36 2.22 -0.38
LIPA_MISC_IPP 23656	35.34 1.28 -0.42	30.93 0.95 -0.18	30.38 0.48 -0.17	28.85 0.43 0.00	29.78 0.64 -0.03	32.10 0.63 -0.17	42.07 1.20 -0.70	46.06 0.97 -1.01	44.06 1.77 -1.02	41.97 2.42 -1.76	40.39 2.91 -0.71	40.72 3.09 -0.79	42.67 3.01 -1.04	43.16 2.43 -0.94	43.80 1.68 -1.03	47.04 1.55 -1.18	50.32 1.35 -0.93	55.00 1.02 -0.28	62.16 0.91 -0.78	59.70 0.70 -0.64	50.21 0.59 -0.45	45.25 0.87 -0.93	41.25 2.26 -0.67	36.81 1.67 -0.38
LISF____SOLAR 323691	35.27 1.21 -0.42	30.87 0.89 -0.18	30.27 0.36 -0.17	28.77 0.34 0.00	29.69 0.55 -0.03	32.00 0.53 -0.17	42.11 1.25 -0.70	46.10 1.01 -1.01	44.10 1.81 -1.02	42.08 2.53 -1.76	40.24 2.76 -0.71	40.72 3.09 -0.79	42.13 2.47 -1.04	42.96 2.23 -0.94	44.00 1.89 -1.03	47.30 1.82 -1.18	50.99 2.02 -0.93	55.43 1.45 -0.28	62.40 1.15 -0.78	59.93 0.93 -0.64	50.51 0.89 -0.45	45.46 1.09 -0.93	41.24 2.26 -0.67	36.84 1.70 -0.38
LITTLE FALLS____HYD 24013	35.62 0.20 -1.78	31.87 0.15 -1.92	30.26 0.15 -0.37	29.08 0.09 -0.57	29.77 0.12 -0.54	32.34 0.16 -0.88	42.04 0.28 -1.59	45.87 0.35 -1.45	43.04 0.29 -1.49	39.61 0.23 -1.60	37.26 0.22 -0.26	37.34 0.26 -0.26	39.21 0.27 -0.33	40.73 0.20 -0.74	42.20 0.16 -0.95	46.03 0.31 -1.41	49.71 0.38 -1.29	55.74 0.27 -1.77	62.35 0.36 -1.52	59.85 0.47 -1.03	50.72 0.30 -1.25	45.23 0.30 -1.47	40.18 0.23 -1.63	35.99 0.17 -1.06



LITTLRIV_115KV_TB1 356100	111.74 0.47 -77.63	114.04 0.36 -83.89	46.24 0.30 -16.21	53.50 0.26 -24.81	53.09 0.29 -23.68	70.28 0.41 -38.57	110.57 0.64 -69.76	108.26 0.84 -63.35	107.20 0.66 -65.27	108.31 0.53 -69.99	48.95 0.37 -11.81	48.94 0.41 -11.70	53.65 0.42 -14.61	72.63 0.40 -32.44	83.41 0.41 -41.92	106.94 0.62 -62.01	105.56 0.77 -56.75	132.68 0.86 -78.13	128.81 1.09 -67.25	105.28 1.23 -45.70	105.31 0.93 -55.20	109.15 0.91 -64.79	110.57 0.69 -71.57	81.90 0.49 -46.66
LI_NEWBRDGE___DRP 323616	35.47 1.41 -0.42	31.08 1.10 -0.18	30.65 0.74 -0.17	29.11 0.68 0.00	30.01 0.87 -0.03	32.38 0.91 -0.17	42.43 1.57 -0.70	46.54 1.45 -1.01	44.35 2.06 -1.02	42.15 2.61 -1.76	40.46 2.98 -0.71	40.71 3.09 -0.79	42.67 3.01 -1.04	43.24 2.51 -0.94	44.04 1.93 -1.03	47.30 1.82 -1.18	50.60 1.63 -0.93	55.37 1.40 -0.28	62.58 1.33 -0.78	60.16 1.17 -0.64	50.61 0.98 -0.45	45.42 1.04 -0.93	41.17 2.18 -0.67	36.81 1.67 -0.38
LOCKPORT_115KV_TB60_63_64 80432	34.04 0.40 0.00	30.39 0.60 0.00	30.10 0.36 0.00	28.54 0.11 0.00	29.29 0.17 0.00	31.55 0.25 0.00	39.83 -1.08 -0.75	43.06 -1.94 -0.92	40.08 -2.10 -0.92	37.36 -1.62 -1.20	37.17 -0.77 -1.17	36.58 -1.36 -1.12	38.52 -1.16 -1.07	40.32 -0.36 -0.88	42.31 0.33 -0.90	44.86 -0.53 -1.08	49.67 -0.24 -1.86	56.35 0.59 -2.06	64.62 1.39 -2.76	61.83 0.88 -2.59	51.09 0.20 -1.72	45.15 -0.04 -1.75	38.15 -0.92 -0.75	36.77 0.66 -1.36
LOCKPORT___CC1 323769	34.04 0.41 0.00	30.33 0.54 0.00	30.01 0.27 0.00	28.37 -0.06 0.00	29.05 -0.06 0.00	31.52 0.22 0.00	39.79 -1.12 -0.75	43.10 -1.89 -0.92	40.12 -2.06 -0.92	37.33 -1.66 -1.20	37.25 -0.70 -1.17	36.88 -1.07 -1.12	38.75 -0.93 -1.07	40.84 0.16 -0.88	41.98 0.00 -0.90	44.86 -0.53 -1.08	49.52 -0.39 -1.87	56.19 0.43 -2.06	64.56 1.33 -2.76	61.66 0.70 -2.59	51.15 0.25 -1.73	45.24 0.04 -1.75	38.49 -0.57 -0.75	36.84 0.73 -1.36
LOCKPORT___CC2 323770	34.04 0.41 0.00	30.33 0.54 0.00	30.01 0.27 0.00	28.37 -0.06 0.00	29.05 -0.06 0.00	31.52 0.22 0.00	39.79 -1.12 -0.75	43.10 -1.89 -0.92	40.12 -2.06 -0.92	37.33 -1.66 -1.20	37.25 -0.70 -1.17	36.88 -1.07 -1.12	38.75 -0.93 -1.07	40.84 0.16 -0.88	41.98 0.00 -0.90	44.86 -0.53 -1.08	49.52 -0.39 -1.87	56.19 0.43 -2.06	64.56 1.33 -2.76	61.66 0.70 -2.59	51.15 0.25 -1.73	45.24 0.04 -1.75	38.49 -0.57 -0.75	36.84 0.73 -1.36
LOCKPORT___CC3 323771	34.04 0.41 0.00	30.33 0.54 0.00	30.01 0.27 0.00	28.37 -0.06 0.00	29.05 -0.06 0.00	31.52 0.22 0.00	39.79 -1.12 -0.75	43.10 -1.89 -0.92	40.12 -2.06 -0.92	37.33 -1.66 -1.20	37.25 -0.70 -1.17	36.88 -1.07 -1.12	38.75 -0.93 -1.07	40.84 0.16 -0.88	41.98 0.00 -0.90	44.86 -0.53 -1.08	49.52 -0.39 -1.87	56.19 0.43 -2.06	64.56 1.33 -2.76	61.66 0.70 -2.59	51.15 0.25 -1.73	45.24 0.04 -1.75	38.49 -0.57 -0.75	36.84 0.73 -1.36
LOCUSVLY_69_KV_BK2 55797	35.77 1.72 -0.42	31.34 1.37 -0.18	30.98 1.07 -0.17	29.42 0.99 0.00	30.33 1.19 -0.03	32.69 1.22 -0.17	42.87 2.01 -0.70	47.07 1.98 -1.02	44.84 2.56 -1.02	42.53 2.99 -1.76	40.79 3.31 -0.71	41.09 3.46 -0.80	43.09 3.44 -1.04	43.72 2.98 -0.94	44.66 2.55 -1.03	47.92 2.44 -1.18	51.23 2.26 -0.93	56.02 2.04 -0.28	63.31 2.06 -0.78	60.87 1.87 -0.64	51.20 1.57 -0.45	46.03 1.65 -0.93	41.44 2.45 -0.67	37.08 1.95 -0.38
LONG_LAKE_PHOENIX 24014	35.83 -0.27 -2.46	32.22 -0.24 -2.66	29.99 -0.27 -0.51	28.93 -0.28 -0.79	29.60 -0.26 -0.75	32.27 -0.25 -1.22	44.63 -0.40 -4.87	48.78 -0.48 -5.19	46.02 -0.50 -5.25	43.62 -0.53 -6.37	40.74 -0.44 -4.41	40.54 -0.52 -4.22	42.29 -0.46 -4.14	43.51 -0.36 -4.07	45.15 -0.37 -4.43	49.61 -0.40 -5.70	55.94 -0.34 -8.23	63.19 -0.27 -9.76	72.22 -0.12 -11.87	68.85 -0.12 -10.60	56.87 -0.15 -7.84	51.37 -0.30 -8.22	42.86 -0.38 -4.93	40.82 -0.21 -6.27
LOVETT___3 23632	35.34 1.31 -0.39	31.12 1.16 -0.16	30.94 1.04 -0.15	29.42 0.99 0.00	30.24 1.11 -0.03	32.65 1.19 -0.16	42.66 1.85 -0.64	47.17 2.16 -0.94	44.47 2.27 -0.94	41.67 2.27 -1.62	39.78 2.35 -0.65	40.05 2.50 -0.72	42.12 2.55 -0.96	43.05 2.39 -0.87	44.37 2.34 -0.95	47.74 2.35 -1.08	51.21 2.31 -0.86	56.16 2.20 -0.26	63.37 2.18 -0.72	61.00 2.04 -0.59	51.36 1.77 -0.42	46.01 1.69 -0.86	40.77 1.84 -0.62	36.57 1.46 -0.35
LOVETT___4 23642	35.34 1.31 -0.39	31.12 1.16 -0.16	30.94 1.04 -0.15	29.42 0.99 0.00	30.24 1.11 -0.03	32.65 1.19 -0.16	42.66 1.85 -0.64	47.17 2.16 -0.94	44.47 2.27 -0.94	41.67 2.27 -1.62	39.78 2.35 -0.65	40.05 2.50 -0.72	42.12 2.55 -0.96	43.05 2.39 -0.87	44.37 2.34 -0.95	47.74 2.35 -1.08	51.21 2.31 -0.86	56.16 2.20 -0.26	63.37 2.18 -0.72	61.00 2.04 -0.59	51.36 1.77 -0.42	46.01 1.69 -0.86	40.77 1.84 -0.62	36.57 1.46 -0.35
LOVETT___5 23593	35.34 1.31 -0.39	31.12 1.16 -0.16	30.94 1.04 -0.15	29.42 0.99 0.00	30.24 1.11 -0.03	32.65 1.19 -0.16	42.66 1.85 -0.64	47.17 2.16 -0.94	44.47 2.27 -0.94	41.67 2.27 -1.62	39.78 2.35 -0.65	40.05 2.50 -0.72	42.12 2.55 -0.96	43.05 2.39 -0.87	44.37 2.34 -0.95	47.74 2.35 -1.08	51.21 2.31 -0.86	56.16 2.20 -0.26	63.37 2.18 -0.72	61.00 2.04 -0.59	51.36 1.77 -0.42	46.01 1.69 -0.86	40.77 1.84 -0.62	36.57 1.46 -0.35
LOWER RAQUET___HYD 24057	108.09 0.24 -74.21	110.17 0.18 -80.20	45.35 0.12 -15.49	52.26 0.11 -23.72	51.87 0.12 -22.64	68.33 0.16 -36.87	107.05 0.16 -66.72	104.93 0.27 -60.59	103.90 0.21 -62.43	104.97 0.23 -66.95	48.26 0.15 -11.34	48.20 0.15 -11.23	52.74 0.12 -14.01	70.95 0.12 -31.04	81.31 0.12 -40.10	103.80 0.18 -59.32	102.60 0.24 -54.32	128.73 0.27 -74.77	125.17 0.30 -64.40	102.56 0.41 -43.79	102.31 0.30 -52.84	105.80 0.35 -62.00	107.03 0.27 -68.45	79.66 0.24 -44.66
LOWER___HUDSON 24059	34.09 0.98 0.52	30.41 0.83 0.22	30.37 0.83 0.21	29.28 0.85 0.00	29.92 0.84 0.04	32.02 0.94 0.21	40.62 1.32 0.87	44.31 1.50 1.26	41.20 1.20 1.26	36.66 1.06 2.18	36.59 0.70 0.88	36.55 0.70 0.97	38.01 0.70 1.29	39.26 0.63 1.17	40.55 0.74 1.27	43.74 0.89 1.45	48.04 1.15 1.16	54.79 1.45 0.35	61.13 1.63 0.97	59.14 1.58 0.80	49.94 1.33 0.56	43.51 1.21 1.16	38.63 1.15 0.83	35.15 0.87 0.48
LOWVILLE_115KV_TB2 356335	55.72 0.91 -21.18	53.40 0.72 -22.89	34.49 0.33 -4.42	35.31 0.11 -6.77	35.69 0.12 -6.46	42.10 0.28 -10.52	60.26 0.48 -19.61	62.88 0.84 -17.97	60.30 0.54 -18.49	58.00 0.23 -19.99	41.01 0.15 -4.09	41.18 0.33 -4.02	44.16 0.77 -4.78	50.06 0.76 -9.51	53.89 0.70 -12.11	63.18 1.15 -17.72	66.31 1.39 -16.87	78.31 1.72 -22.90	83.23 2.30 -20.46	75.50 2.68 -14.45	67.52 1.97 -16.38	64.20 1.74 -19.01	59.72 1.30 -20.10	49.57 1.04 -13.77
LUTHERFT_115KV_GLOB_FND_222 355753	34.63 1.41 0.42	30.81 1.19 0.17	30.88 1.31 0.17	29.65 1.22 0.00	30.28 1.19 0.03	32.47 1.35 0.17	41.16 1.69 0.69	44.82 1.76 1.02	41.29 1.03 1.01	36.87 0.83 1.75	36.40 0.33 0.70	36.34 0.29 0.78	37.88 0.31 1.04	39.25 0.40 0.94	40.47 0.41 1.02	43.85 0.71 1.17	48.32 1.20 0.93	55.40 1.99 0.28	62.23 2.54 0.78	60.17 2.45 0.64	50.79 2.07 0.45	44.30 1.78 0.93	39.29 1.65 0.67	35.66 1.29 0.38



LUTHERNY_35_KV_BK2 355980	34.66 1.45 0.42	30.81 1.19 0.17	30.88 1.31 0.17	29.65 1.22 0.00	30.31 1.22 0.03	32.50 1.38 0.17	41.20 1.73 0.69	44.86 1.81 1.02	41.29 1.03 1.01	36.87 0.83 1.75	36.40 0.33 0.70	36.34 0.29 0.78	37.88 0.31 1.04	39.25 0.40 0.94	40.47 0.41 1.02	43.89 0.75 1.17	48.32 1.20 0.93	55.45 2.04 0.28	62.23 2.54 0.78	60.23 2.51 0.64	50.83 2.11 0.45	44.30 1.78 0.93	39.33 1.69 0.67	35.69 1.32 0.38
LWR___OSWEGATCHIE_HYD 23850	84.50 0.54 -50.32	84.59 0.42 -54.38	40.48 0.24 -10.51	44.62 0.11 -16.09	44.61 0.15 -15.35	56.55 0.25 -25.00	86.20 0.44 -45.59	86.28 0.71 -41.50	84.51 0.50 -42.75	84.03 0.30 -45.94	45.17 0.18 -8.21	45.24 0.29 -8.12	49.05 0.46 -9.98	61.68 0.44 -21.45	69.09 0.41 -27.60	85.73 0.71 -40.71	86.58 0.86 -37.67	106.43 1.07 -51.65	106.86 1.45 -44.94	90.94 1.69 -30.89	87.03 1.23 -36.63	87.43 1.13 -42.85	85.92 0.84 -46.77	66.29 0.63 -30.91
LYONS_FALL_HYD 23570	48.61 0.84 -14.13	45.76 0.69 -15.27	33.11 0.42 -2.95	33.20 0.26 -4.52	33.72 0.29 -4.31	38.79 0.47 -7.02	54.01 0.68 -13.16	57.13 0.97 -12.08	54.44 0.74 -12.43	51.70 0.46 -13.46	39.95 0.33 -2.85	40.10 0.48 -2.80	42.68 0.77 -3.30	46.98 0.75 -6.43	49.99 0.74 -8.17	57.35 1.11 -11.94	60.79 1.30 -11.45	70.80 1.61 -15.49	76.52 2.12 -13.94	70.67 2.39 -9.91	62.05 1.77 -11.11	57.88 1.56 -12.87	53.00 1.19 -13.49	45.06 0.97 -9.33
MADISON___COUNTY_LFGE 323628	39.12 0.87 -4.61	35.52 0.74 -4.98	31.42 0.71 -0.96	30.47 0.57 -1.47	31.19 0.67 -1.41	34.40 0.81 -2.29	46.07 1.12 -4.78	50.01 1.41 -4.53	47.06 1.16 -4.64	43.77 0.83 -5.15	39.15 0.70 -1.67	39.19 0.74 -1.62	41.25 0.89 -1.75	43.37 0.92 -2.66	45.22 0.90 -3.24	50.13 1.24 -4.58	54.40 1.44 -4.92	61.81 1.72 -6.39	68.98 2.18 -6.34	65.67 2.39 -4.92	55.74 1.82 -4.74	50.30 1.52 -5.33	44.35 1.15 -4.89	39.69 1.01 -3.92
MALONE___115KV_TB1 356076	61.46 0.87 -26.95	59.73 0.80 -29.12	36.14 0.77 -5.63	37.84 0.80 -8.62	38.15 0.82 -8.22	45.60 0.91 -13.39	65.61 1.33 -24.12	67.45 1.50 -21.88	65.30 1.49 -22.55	63.41 1.47 -24.15	42.09 1.36 -3.96	42.04 1.29 -3.92	44.83 1.27 -4.94	52.26 1.31 -11.15	56.92 1.40 -14.44	67.25 1.55 -21.39	69.24 1.73 -19.47	82.44 1.88 -26.86	85.52 2.06 -22.99	75.70 1.81 -15.53	69.69 1.57 -18.94	67.15 1.43 -22.27	64.21 1.15 -24.75	51.68 0.90 -16.02
MAPLEWOD_115KV_TB3 80458	33.95 0.67 0.36	30.21 0.57 0.15	30.26 0.65 0.14	29.05 0.63 0.00	29.70 0.61 0.02	31.81 0.66 0.15	40.42 0.84 0.59	44.14 0.93 0.86	41.15 0.74 0.86	36.98 0.68 1.48	36.58 0.40 0.60	36.61 0.44 0.66	38.12 0.39 0.88	39.36 0.36 0.79	40.59 0.37 0.87	43.81 0.49 0.99	47.83 0.58 0.79	54.26 0.81 0.24	60.66 0.85 0.66	58.63 0.82 0.54	49.53 0.74 0.38	43.36 0.70 0.79	38.47 0.73 0.57	34.99 0.56 0.32
MAPLE_RIDGE_WT_1 323574	31.59 -0.17 1.88	27.59 -0.18 2.03	29.11 -0.24 0.39	27.54 -0.28 0.60	28.22 -0.32 0.57	30.02 -0.34 0.93	38.08 -0.40 1.68	42.19 -0.35 1.53	39.45 -0.25 1.57	35.99 -0.11 1.68	36.42 -0.07 0.28	36.48 -0.07 0.27	38.19 -0.08 0.34	38.94 -0.08 0.78	39.99 -0.08 1.01	42.73 -0.09 1.49	46.59 -0.10 1.36	51.66 -0.16 1.87	58.68 -0.18 1.60	57.04 -0.23 1.08	47.66 -0.20 1.32	41.68 -0.22 1.55	36.36 -0.23 1.73	33.40 -0.24 1.12
MAPLE_RIDGE_WT_2 323611	31.59 -0.17 1.88	27.59 -0.18 2.03	29.11 -0.24 0.39	27.54 -0.28 0.60	28.22 -0.32 0.57	30.02 -0.34 0.93	38.08 -0.40 1.68	42.19 -0.35 1.53	39.45 -0.25 1.57	35.99 -0.11 1.68	36.42 -0.07 0.28	36.48 -0.07 0.27	38.19 -0.08 0.34	38.94 -0.08 0.78	39.99 -0.08 1.01	42.73 -0.09 1.49	46.59 -0.10 1.36	51.66 -0.16 1.87	58.68 -0.18 1.60	57.04 -0.23 1.08	47.66 -0.20 1.32	41.68 -0.22 1.55	36.36 -0.23 1.73	33.40 -0.24 1.12
MARBLE_RIVER_WT_PWR 323696	40.46 1.18 -5.65	37.00 1.10 -6.10	32.02 1.10 -1.18	31.37 1.14 -1.81	32.00 1.17 -1.72	35.36 1.25 -2.81	45.94 0.72 -5.05	49.05 0.40 -4.58	46.53 0.54 -4.72	44.06 1.21 -5.06	38.74 1.14 -0.83	38.72 1.07 -0.82	40.69 1.04 -1.04	43.24 1.11 -2.34	45.26 1.15 -3.03	49.37 0.57 -4.48	52.75 0.62 -4.08	59.97 0.65 -5.63	65.89 0.60 -4.82	61.97 0.35 -3.25	53.49 0.35 -3.97	48.42 0.31 -4.67	44.26 0.77 -5.19	39.36 1.25 -3.36
MARSHVLE_115KV_TB1 80742	35.47 2.05 0.22	31.43 1.73 0.09	31.50 1.84 0.09	30.13 1.71 0.00	30.84 1.75 0.01	33.24 2.03 0.09	42.41 2.61 0.37	46.13 2.60 0.54	42.09 1.36 0.54	37.54 0.68 0.93	36.44 0.04 0.37	36.30 -0.11 0.42	37.98 -0.08 0.55	39.29 0.00 0.50	40.66 0.12 0.54	44.44 0.75 0.62	49.09 1.54 0.49	56.55 3.01 0.15	64.29 4.23 0.41	62.45 4.44 0.34	52.52 3.59 0.24	46.00 3.04 0.49	40.52 2.57 0.36	36.64 2.09 0.20
MARSH_HILL_WT_PWR 323713	34.58 0.94 0.00	30.66 0.86 0.00	30.48 0.74 0.00	28.96 0.54 0.00	29.69 0.58 0.00	32.27 0.97 0.00	41.87 0.72 -0.98	45.63 0.35 -1.20	42.34 -0.12 -1.20	39.05 -0.30 -1.57	38.52 0.22 -1.53	38.18 -0.11 -1.46	40.04 0.04 -1.39	41.82 0.87 -1.15	43.20 0.95 -1.17	46.65 0.93 -1.41	51.58 1.11 -2.43	58.53 2.15 -2.68	67.44 3.38 -3.59	64.83 3.09 -3.37	53.78 2.36 -2.24	47.33 1.61 -2.27	40.13 0.84 -0.98	38.05 1.53 -1.77
MCINTYRE_115KV_TB2 80467	117.26 0.50 -83.12	120.04 0.42 -89.82	47.45 0.36 -17.35	55.31 0.31 -26.57	54.82 0.35 -25.36	73.07 0.47 -41.30	115.54 0.72 -74.65	112.77 0.93 -67.78	111.80 0.70 -69.83	113.15 0.49 -74.87	49.68 0.33 -12.58	49.66 0.37 -12.47	54.54 0.35 -15.58	74.83 0.36 -34.68	86.28 0.37 -44.83	111.21 0.58 -66.33	109.46 0.77 -60.65	138.14 0.91 -83.53	133.46 1.15 -71.84	108.48 1.34 -48.77	109.21 1.03 -59.00	113.72 1.00 -69.27	115.67 0.77 -76.59	85.15 0.52 -49.88
MECO_____69_KV_BK1 80468	35.58 2.19 0.24	31.54 1.85 0.10	31.64 1.99 0.10	30.24 1.82 0.00	30.96 1.86 0.02	33.36 2.16 0.10	42.49 2.73 0.41	46.17 2.69 0.59	42.04 1.36 0.59	37.41 0.64 1.02	36.29 -0.07 0.41	36.08 -0.29 0.46	37.70 -0.31 0.61	39.05 -0.20 0.55	40.49 0.00 0.60	44.29 0.66 0.68	49.13 1.63 0.54	56.81 3.28 0.17	64.61 4.60 0.45	62.66 4.67 0.37	52.70 3.79 0.26	46.12 3.22 0.54	40.64 2.72 0.39	36.72 2.19 0.22
MENANDS___115KV_TB5 355628	33.75 0.47 0.35	30.10 0.45 0.15	30.11 0.51 0.14	28.91 0.48 0.00	29.55 0.47 0.02	31.65 0.50 0.15	40.18 0.60 0.59	43.92 0.71 0.86	41.03 0.62 0.85	36.88 0.57 1.47	36.47 0.29 0.59	36.50 0.33 0.66	38.04 0.31 0.87	39.24 0.24 0.79	40.43 0.21 0.86	43.63 0.31 0.98	47.64 0.38 0.78	53.94 0.48 0.24	60.30 0.48 0.66	58.29 0.47 0.54	49.23 0.44 0.38	43.10 0.43 0.78	38.25 0.50 0.56	34.78 0.35 0.32
MG INDUSTRY___DRP 24185	34.13 0.64 0.15	30.30 0.57 0.06	30.34 0.65 0.06	29.05 0.63 0.00	29.68 0.58 0.01	31.86 0.63 0.06	40.64 0.72 0.25	44.46 0.75 0.36	41.40 0.50 0.36	37.54 0.38 0.63	36.63 0.11 0.25	36.69 0.15 0.28	38.35 0.12 0.37	39.54 0.08 0.34	40.80 0.08 0.37	44.11 0.22 0.42	48.05 0.34 0.33	54.19 0.59 0.10	60.91 0.73 0.28	58.83 0.70 0.23	49.65 0.64 0.16	43.77 0.65 0.33	38.72 0.65 0.24	35.14 0.52 0.14



MID___OSWEGATCHIE_HYD 23849	84.50 0.54 -50.32	84.59 0.42 -54.38	40.48 0.24 -10.51	44.62 0.11 -16.09	44.61 0.15 -15.35	56.55 0.25 -25.00	86.20 0.44 -45.59	86.28 0.71 -41.50	84.51 0.50 -42.75	84.03 0.30 -45.94	45.17 0.18 -8.21	45.24 0.29 -8.12	49.05 0.46 -9.98	61.68 0.44 -21.45	69.09 0.41 -27.60	85.73 0.71 -40.71	86.58 0.86 -37.67	106.43 1.07 -51.65	106.86 1.45 -44.94	90.94 1.69 -30.89	87.03 1.23 -36.63	87.43 1.13 -42.85	85.92 0.84 -46.77	66.29 0.63 -30.91
MID___RAQUETTE_HYD 23851	108.08 0.24 -74.21	110.17 0.18 -80.20	45.35 0.12 -15.49	52.26 0.11 -23.72	51.87 0.12 -22.64	68.33 0.16 -36.87	107.21 0.32 -66.72	105.11 0.44 -60.59	104.07 0.37 -62.43	105.08 0.34 -66.95	48.33 0.22 -11.34	48.31 0.26 -11.23	52.89 0.27 -14.01	71.07 0.24 -31.04	81.43 0.25 -40.10	103.98 0.35 -59.32	102.84 0.48 -54.32	128.95 0.48 -74.77	125.47 0.60 -64.40	102.79 0.64 -43.79	102.50 0.49 -52.84	105.97 0.52 -62.00	107.15 0.38 -68.45	79.65 0.24 -44.66
MILLIKEN___1 23584	34.38 0.74 0.00	30.45 0.66 0.00	30.40 0.65 0.00	28.96 0.54 0.00	29.72 0.61 0.00	32.05 0.75 0.00	42.39 0.88 -1.34	46.66 0.93 -1.66	43.62 0.70 -1.66	40.37 0.42 -2.16	39.36 0.48 -2.11	39.17 0.33 -2.01	40.96 0.42 -1.92	42.02 0.64 -1.59	43.52 0.82 -1.62	47.28 1.02 -1.95	52.65 1.25 -3.36	59.09 1.72 -3.68	67.63 2.24 -4.92	65.21 2.22 -4.63	54.02 1.77 -3.08	47.78 1.22 -3.12	40.46 0.80 -1.35	38.15 0.97 -2.42
MILLIKEN___2 23585	34.38 0.74 0.00	30.45 0.66 0.00	30.40 0.65 0.00	28.96 0.54 0.00	29.72 0.61 0.00	32.05 0.75 0.00	42.39 0.88 -1.34	46.66 0.93 -1.66	43.62 0.70 -1.66	40.37 0.42 -2.16	39.36 0.48 -2.11	39.17 0.33 -2.01	40.96 0.42 -1.92	42.02 0.64 -1.59	43.52 0.82 -1.62	47.28 1.02 -1.95	52.65 1.25 -3.36	59.09 1.72 -3.68	67.63 2.24 -4.92	65.21 2.22 -4.63	54.02 1.77 -3.08	47.78 1.22 -3.12	40.46 0.80 -1.35	38.15 0.97 -2.42
MILLIKEN___DIESEL 23629	34.38 0.74 0.00	30.45 0.66 0.00	30.40 0.65 0.00	28.96 0.54 0.00	29.72 0.61 0.00	32.05 0.75 0.00	42.39 0.88 -1.34	46.66 0.93 -1.66	43.62 0.70 -1.66	40.37 0.42 -2.16	39.36 0.48 -2.11	39.17 0.33 -2.01	40.96 0.42 -1.92	42.02 0.64 -1.59	43.52 0.82 -1.62	47.28 1.02 -1.95	52.65 1.25 -3.36	59.09 1.72 -3.68	67.63 2.24 -4.92	65.21 2.22 -4.63	54.02 1.77 -3.08	47.78 1.22 -3.12	40.46 0.80 -1.35	38.15 0.97 -2.42
MILLSEAT___LFGE 323607	34.71 1.08 0.00	30.90 1.10 0.00	30.54 0.80 0.00	28.96 0.54 0.00	29.61 0.49 0.00	32.21 0.91 0.00	40.87 -0.04 -0.75	44.37 -0.62 -0.92	41.31 -0.87 -0.92	38.15 -0.83 -1.20	37.94 0.00 -1.17	37.61 -0.33 -1.11	39.56 -0.12 -1.06	41.70 1.03 -0.88	42.84 0.86 -0.90	45.92 0.53 -1.08	50.77 0.87 -1.86	57.68 1.93 -2.05	66.42 3.20 -2.75	63.33 2.39 -2.58	52.71 1.82 -1.72	46.49 1.30 -1.74	39.52 0.46 -0.75	37.53 1.43 -1.35
MILLWOOD_138_KV_38W41_REV_LBMP_H 345005	35.47 1.41 -0.42	31.19 1.22 -0.18	31.04 1.13 -0.17	29.48 1.05 0.00	30.30 1.16 -0.03	32.76 1.28 -0.17	42.83 1.97 -0.70	47.38 2.29 -1.02	44.76 2.48 -1.01	42.00 2.46 -1.75	39.98 2.50 -0.71	40.30 2.69 -0.78	42.39 2.74 -1.04	43.32 2.59 -0.94	44.61 2.51 -1.02	48.01 2.53 -1.17	51.47 2.50 -0.93	56.40 2.42 -0.29	63.67 2.42 -0.78	61.28 2.28 -0.64	51.55 1.92 -0.46	46.25 1.87 -0.93	40.90 1.92 -0.67	36.63 1.49 -0.38
MILLWOOD_13_KV_LOAD 356217	35.54 1.48 -0.42	31.25 1.28 -0.18	31.10 1.19 -0.17	29.53 1.11 0.00	30.36 1.22 -0.03	32.82 1.35 -0.17	42.91 2.05 -0.70	47.47 2.38 -1.02	44.88 2.60 -1.01	42.07 2.53 -1.75	40.09 2.61 -0.71	40.37 2.76 -0.78	42.51 2.86 -1.04	43.44 2.71 -0.94	44.74 2.63 -1.02	48.18 2.70 -1.17	51.62 2.64 -0.93	56.56 2.58 -0.29	63.85 2.60 -0.78	61.51 2.51 -0.64	51.74 2.11 -0.46	46.38 2.00 -0.93	40.97 1.99 -0.67	36.74 1.60 -0.38
MODEL_CITY_ENERGY 24167	33.94 0.30 0.00	30.24 0.45 0.00	29.89 0.15 0.00	28.14 -0.28 0.00	28.94 -0.17 0.00	31.42 0.13 0.00	39.39 -1.53 -0.75	42.66 -2.34 -0.92	39.71 -2.47 -0.92	36.95 -2.04 -1.20	36.88 -1.07 -1.17	36.51 -1.44 -1.12	38.36 -1.31 -1.07	40.44 -0.24 -0.88	41.57 -0.41 -0.90	44.42 -0.98 -1.08	48.99 -0.91 -1.86	55.54 -0.21 -2.06	63.83 0.60 -2.76	60.95 0.00 -2.59	50.56 -0.34 -1.72	44.76 -0.43 -1.75	38.07 -1.00 -0.75	36.46 0.35 -1.36
MODERN_LFGE___ 323580	33.94 0.30 0.00	30.24 0.45 0.00	29.89 0.15 0.00	28.14 -0.28 0.00	28.94 -0.17 0.00	31.42 0.13 0.00	39.39 -1.53 -0.75	42.66 -2.34 -0.92	39.71 -2.47 -0.92	36.95 -2.04 -1.20	36.88 -1.07 -1.17	36.51 -1.44 -1.12	38.36 -1.31 -1.07	40.44 -0.24 -0.88	41.57 -0.41 -0.90	44.42 -0.98 -1.08	48.99 -0.91 -1.86	55.54 -0.21 -2.06	63.83 0.60 -2.76	60.95 0.00 -2.59	50.56 -0.34 -1.72	44.76 -0.43 -1.75	38.07 -1.00 -0.75	36.46 0.35 -1.36
MOHAWK_PAPER___DRP 24187	33.95 0.67 0.36	30.21 0.57 0.15	30.26 0.65 0.14	29.05 0.63 0.00	29.70 0.61 0.02	31.81 0.66 0.15	40.42 0.84 0.59	44.14 0.93 0.86	41.15 0.74 0.86	36.98 0.68 1.48	36.58 0.40 0.60	36.61 0.44 0.66	38.12 0.39 0.88	39.36 0.36 0.79	40.59 0.37 0.87	43.81 0.49 0.99	47.83 0.58 0.79	54.26 0.81 0.24	60.66 0.85 0.66	58.63 0.82 0.54	49.53 0.74 0.38	43.36 0.70 0.79	38.47 0.73 0.57	34.99 0.56 0.32
MOHICAN___35_KV_115KV_LD 80490	34.75 1.55 0.43	30.87 1.25 0.18	31.00 1.43 0.17	29.70 1.28 0.00	30.36 1.28 0.03	32.62 1.50 0.18	41.22 1.77 0.72	44.83 1.81 1.05	40.84 0.62 1.04	36.40 0.42 1.80	35.79 -0.26 0.73	35.69 -0.33 0.80	37.19 -0.35 1.07	38.63 -0.20 0.97	39.82 -0.21 1.05	43.37 0.27 1.20	47.95 0.86 0.96	55.50 2.09 0.29	62.51 2.84 0.80	60.50 2.80 0.66	50.97 2.26 0.47	44.36 1.87 0.96	39.42 1.80 0.69	35.72 1.36 0.39
MONGAUP___HYD 23641	35.62 1.65 -0.34	31.40 1.46 -0.14	31.24 1.37 -0.13	29.79 1.36 0.00	30.50 1.37 -0.02	32.94 1.50 -0.14	43.01 2.29 -0.56	47.45 2.56 -0.82	44.31 2.23 -0.82	41.12 1.93 -1.41	39.18 1.84 -0.57	39.33 1.88 -0.63	41.38 1.93 -0.84	42.42 1.87 -0.76	43.92 2.01 -0.82	47.55 2.30 -0.94	51.19 2.40 -0.75	56.66 2.74 -0.23	64.00 2.90 -0.63	61.79 2.92 -0.52	52.05 2.51 -0.37	46.37 2.17 -0.75	40.96 2.11 -0.54	36.83 1.77 -0.31
MONTAUK___DIESEL 23721	35.44 1.38 -0.42	31.17 1.19 -0.18	30.59 0.68 -0.17	28.96 0.54 0.00	29.93 0.79 -0.03	32.13 0.66 -0.17	41.99 1.12 -0.70	46.01 0.93 -1.01	44.10 1.82 -1.02	42.08 2.53 -1.76	40.53 3.05 -0.71	40.94 3.31 -0.79	42.90 3.24 -1.04	43.36 2.63 -0.94	44.00 1.89 -1.03	47.30 1.82 -1.18	50.65 1.68 -0.93	55.37 1.40 -0.28	62.64 1.39 -0.78	60.16 1.17 -0.64	50.61 0.98 -0.45	45.68 1.30 -0.93	41.63 2.64 -0.67	37.40 2.26 -0.38
MOONROAD_115KV_HARTFLD_TB1-2 355988	34.65 1.01 0.00	30.87 1.07 0.00	30.40 0.65 0.00	28.71 0.28 0.00	29.58 0.47 0.00	32.21 0.91 0.00	41.59 0.64 -0.78	45.38 0.35 -0.96	41.85 -0.37 -0.95	39.11 0.08 -1.25	38.91 0.92 -1.22	38.47 0.48 -1.16	40.37 0.66 -1.11	42.10 1.39 -0.92	44.32 2.30 -0.93	46.98 1.55 -1.12	52.09 2.11 -1.94	59.06 3.22 -2.14	67.69 4.35 -2.87	64.79 3.74 -2.69	53.47 2.51 -1.79	47.09 1.82 -1.81	39.82 0.73 -0.78	38.04 1.88 -1.41



MORRIS_RIDGE___SOLAR 323848	34.21 0.57 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.65 0.23 0.00	29.34 0.23 0.00	31.80 0.50 0.00	41.04 0.00 -0.88	44.71 -0.44 -1.08	41.43 -0.91 -1.07	38.32 -0.87 -1.40	37.81 -0.33 -1.37	37.47 -0.66 -1.30	39.31 -0.54 -1.24	41.14 0.32 -1.03	42.42 0.29 -1.05	45.66 0.09 -1.26	50.46 0.24 -2.17	57.17 1.07 -2.40	65.92 2.24 -3.22	63.31 1.92 -3.02	52.56 1.37 -2.01	46.40 0.91 -2.04	39.50 0.31 -0.88	37.42 1.08 -1.58
MORTIMER_115KV_TB3 55949	33.94 0.30 0.00	30.15 0.36 0.00	29.95 0.21 0.00	28.54 0.11 0.00	29.26 0.15 0.00	31.55 0.25 0.00	40.82 -0.08 -0.74	44.54 -0.44 -0.91	41.63 -0.54 -0.90	38.44 -0.53 -1.18	37.85 -0.07 -1.15	37.52 -0.41 -1.10	39.47 -0.19 -1.05	40.98 0.32 -0.87	42.58 0.62 -0.88	45.73 0.35 -1.06	50.55 0.67 -1.83	57.06 1.34 -2.02	65.17 2.00 -2.70	62.48 1.58 -2.54	52.04 1.18 -1.69	45.90 0.74 -1.71	39.09 0.04 -0.74	36.78 0.70 -1.33
MOTTHAVN_138_KV_9M4_REV_LBMP_J 345006	35.64 1.58 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.45 1.31 -0.03	32.88 1.41 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.09 2.81 -1.02	42.38 2.83 -1.76	40.39 2.91 -0.71	40.71 3.09 -0.79	42.78 3.13 -1.04	43.72 2.98 -0.94	44.99 2.88 -1.03	48.36 2.88 -1.18	51.86 2.88 -0.93	56.72 2.74 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.52 2.13 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
MUNSVILLE_WIND_PWR 323609	35.86 2.22 0.00	31.68 1.88 0.00	31.67 1.93 0.00	30.02 1.59 0.00	30.95 1.84 0.00	33.55 2.25 0.00	44.16 3.05 -0.94	48.89 3.66 -1.16	45.39 2.97 -1.15	41.33 2.04 -1.51	40.08 1.84 -1.47	40.07 1.84 -1.40	41.95 2.01 -1.34	43.09 2.19 -1.11	44.39 2.18 -1.13	48.72 3.05 -1.36	54.03 3.65 -2.34	60.95 4.67 -2.59	69.80 5.86 -3.46	67.86 6.25 -3.25	56.06 4.72 -2.16	49.55 3.91 -2.19	42.25 2.99 -0.95	39.13 2.68 -1.70
N SALMON___HYD 24042	61.46 0.87 -26.95	59.73 0.80 -29.12	36.14 0.77 -5.63	37.83 0.79 -8.62	38.15 0.81 -8.22	45.57 0.88 -13.39	65.17 0.88 -24.12	66.79 0.84 -21.88	64.72 0.91 -22.55	63.07 1.13 -24.15	41.76 1.03 -3.96	41.75 0.99 -3.92	44.48 0.93 -4.94	51.90 0.95 -11.15	56.55 1.03 -14.44	66.59 0.89 -21.39	68.52 1.01 -19.47	81.63 1.07 -26.86	84.61 1.15 -22.99	74.82 0.93 -15.53	68.95 0.84 -18.94	66.50 0.78 -22.27	63.87 0.81 -24.75	51.68 0.90 -16.02
N.AKRON__115KV_KNAPP 355671	34.78 1.14 0.00	31.02 1.22 0.00	30.72 0.98 0.00	29.16 0.74 0.00	29.93 0.82 0.00	32.33 1.03 0.00	41.15 0.24 -0.75	44.64 -0.35 -0.92	41.52 -0.66 -0.92	38.38 -0.60 -1.20	38.09 0.15 -1.17	37.54 -0.41 -1.11	39.56 -0.12 -1.06	41.43 0.76 -0.88	43.33 1.36 -0.90	46.14 0.75 -1.08	51.20 1.30 -1.86	58.16 2.42 -2.05	66.84 3.63 -2.75	63.92 2.98 -2.58	53.00 2.11 -1.72	46.62 1.43 -1.74	39.45 0.38 -0.75	37.67 1.56 -1.35
N.E_GEN_SANDY PD 24062	31.10 0.84 3.38	29.13 0.75 1.41	29.06 0.65 1.33	29.11 0.68 0.00	29.58 0.70 0.23	30.69 0.78 1.39	35.85 1.28 5.60	38.04 1.50 7.53	34.64 1.53 8.15	26.09 1.51 13.21	31.50 1.29 6.56	31.90 1.36 6.29	31.60 1.35 8.36	33.43 1.19 7.55	34.13 1.27 8.23	36.23 1.33 9.41	42.00 1.44 7.48	52.80 1.39 2.29	55.52 1.33 6.28	54.48 1.28 5.16	46.60 1.08 3.65	37.00 1.04 7.49	34.00 1.07 5.38	32.48 0.80 3.08
N.HEMPST_138_KV_BK345_REV_LBMP_G 345014	35.40 1.38 -0.38	31.15 1.19 -0.16	30.99 1.10 -0.15	29.45 1.02 0.00	30.30 1.16 -0.03	32.71 1.25 -0.16	42.73 1.93 -0.64	47.25 2.25 -0.93	44.50 2.31 -0.93	41.69 2.30 -1.60	39.77 2.35 -0.64	40.08 2.54 -0.71	42.15 2.59 -0.95	43.08 2.43 -0.86	44.40 2.38 -0.93	47.81 2.44 -1.07	51.25 2.35 -0.85	56.27 2.31 -0.26	63.48 2.30 -0.71	61.10 2.16 -0.59	51.41 1.82 -0.41	46.04 1.74 -0.85	40.84 1.92 -0.61	36.63 1.53 -0.35
N.QUEENS_27_KV_LOAD 356247	35.92 1.85 -0.43	31.53 1.55 -0.18	31.34 1.43 -0.17	29.76 1.34 0.00	30.65 1.51 -0.03	32.88 1.41 -0.17	42.95 2.09 -0.70	47.61 2.51 -1.02	45.05 2.76 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.78 3.13 -1.04	43.68 2.94 -0.94	44.90 2.79 -1.03	48.19 2.70 -1.18	51.62 2.64 -0.93	56.35 2.36 -0.29	63.55 2.30 -0.78	61.11 2.10 -0.64	51.50 1.87 -0.46	46.25 1.87 -0.94	41.09 2.11 -0.67	36.98 1.84 -0.38
N.TROY___115KV_TB1 355778	34.09 0.98 0.52	30.41 0.83 0.22	30.43 0.89 0.21	29.28 0.85 0.00	29.92 0.84 0.04	32.02 0.94 0.21	40.59 1.29 0.87	44.22 1.41 1.26	41.12 1.11 1.26	36.63 1.02 2.18	36.56 0.66 0.88	36.55 0.70 0.97	38.01 0.69 1.29	39.30 0.68 1.17	40.47 0.66 1.27	43.65 0.80 1.45	47.94 1.06 1.16	54.69 1.34 0.35	61.01 1.51 0.97	59.08 1.52 0.80	49.89 1.28 0.56	43.47 1.17 1.16	38.59 1.11 0.83	35.15 0.87 0.48
NARROWS_GT1_1 24228	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT1_2 24229	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT1_3 24230	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT1_4 24231	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT1_5 24232	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38



NARROWS_GT1_6 24233	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT1_7 24234	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT1_8 24235	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_1 24236	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_2 24237	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_3 24238	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_4 24239	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_5 24240	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_6 24241	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_7 24242	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NARROWS_GT2_8 24243	36.02 1.95 -0.43	31.65 1.67 -0.18	31.43 1.52 -0.17	29.70 1.28 0.00	30.62 1.48 -0.03	33.01 1.53 -0.17	43.36 2.49 -0.70	48.09 3.00 -1.02	45.51 3.22 -1.02	42.72 3.17 -1.76	40.75 3.27 -0.71	41.07 3.46 -0.79	43.13 3.48 -1.04	44.04 3.30 -0.94	45.48 3.37 -1.03	48.85 3.37 -1.18	52.53 3.56 -0.93	57.37 3.39 -0.29	64.58 3.32 -0.78	62.15 3.15 -0.64	52.24 2.60 -0.46	46.91 2.52 -0.94	41.44 2.45 -0.67	37.08 1.95 -0.38
NCATSKLL_69_KV_NC-LINE_REV_LBMP_G 345022	35.55 1.92 0.00	31.53 1.73 0.00	31.56 1.81 0.00	30.04 1.62 0.00	30.63 1.51 0.00	33.15 1.85 0.00	42.62 2.45 0.00	46.72 2.64 0.00	43.16 1.90 0.00	39.18 1.40 0.00	37.77 0.99 0.00	37.75 0.92 0.00	39.65 1.04 0.00	40.79 0.99 0.00	42.15 1.07 0.00	45.86 1.55 0.00	49.82 1.78 0.00	56.33 2.63 0.00	63.49 3.02 0.00	61.51 3.15 0.00	51.88 2.70 0.00	45.71 2.26 0.00	40.38 2.07 0.00	36.60 1.84 0.00
NCHELSEA_115KV_TR2 355582	35.67 1.72 -0.32	31.42 1.49 -0.13	31.29 1.43 -0.12	29.82 1.39 0.00	30.56 1.43 -0.02	32.99 1.56 -0.13	42.94 2.25 -0.52	47.44 2.60 -0.76	44.58 2.56 -0.76	41.56 2.46 -1.31	39.80 2.50 -0.53	39.99 2.58 -0.59	42.09 2.70 -0.78	43.04 2.55 -0.70	44.32 2.46 -0.77	47.80 2.61 -0.88	51.34 2.59 -0.70	56.60 2.68 -0.21	63.77 2.72 -0.59	61.58 2.74 -0.48	51.83 2.31 -0.34	46.23 2.09 -0.70	40.96 2.15 -0.50	36.81 1.77 -0.29
NEG CAPITAL___MECHNVIL 23645	34.62 1.45 0.46	30.80 1.19 0.19	30.78 1.22 0.18	29.62 1.19 0.00	30.28 1.19 0.03	32.49 1.38 0.19	41.17 1.77 0.76	44.86 1.89 1.11	41.36 1.20 1.11	36.85 0.98 1.91	36.52 0.51 0.77	36.42 0.44 0.85	37.98 0.50 1.14	39.32 0.56 1.03	40.62 0.66 1.12	44.01 0.97 1.28	48.47 1.44 1.02	55.59 2.20 0.31	62.34 2.72 0.85	60.35 2.69 0.70	50.89 2.21 0.50	44.30 1.87 1.02	39.31 1.73 0.73	35.66 1.32 0.42
NEG CENTRAL_HIGH_ACRES 23767	33.23 -0.40 0.00	29.47 -0.33 0.00	29.30 -0.45 0.00	28.03 -0.40 0.00	28.56 -0.55 0.00	30.92 -0.37 0.00	40.19 -0.80 -0.82	43.99 -1.10 -1.02	41.17 -1.11 -1.02	37.94 -1.17 -1.33	37.33 -0.74 -1.30	37.18 -0.88 -1.24	39.02 -0.77 -1.18	40.53 -0.24 -0.98	41.75 -0.33 -0.99	45.06 -0.44 -1.20	49.77 -0.33 -2.06	56.07 0.11 -2.26	64.10 0.60 -3.03	61.50 0.29 -2.84	51.26 0.20 -1.89	45.24 -0.13 -1.92	38.60 -0.54 -0.83	36.17 -0.07 -1.49



NEG CENTRAL___DRP 24199	35.75 0.71 -1.41	31.98 0.66 -1.52	30.66 0.62 -0.29	29.36 0.48 -0.45	30.15 0.61 -0.43	32.78 0.78 -0.70	43.98 0.92 -2.89	48.14 0.88 -3.19	43.92 0.62 -2.04	40.79 0.34 -2.66	39.85 0.48 -2.59	39.56 0.26 -2.48	41.36 0.39 -2.36	42.42 0.68 -1.95	44.06 0.99 -1.99	47.81 1.11 -2.39	53.57 1.39 -4.13	60.19 2.04 -4.46	70.36 2.72 -7.17	67.41 2.63 -6.42	55.91 2.02 -4.72	49.65 1.26 -4.94	41.96 0.73 -2.92	39.57 1.04 -3.77
NEG CENTRAL___INDECK 23768	35.08 1.45 0.00	31.17 1.37 0.00	30.87 1.13 0.00	29.50 1.08 0.00	30.07 0.96 0.00	32.71 1.41 0.00	42.39 1.37 -0.86	46.24 1.10 -1.06	42.90 0.58 -1.06	39.28 0.11 -1.38	38.64 0.51 -1.35	38.30 0.19 -1.29	40.18 0.35 -1.23	42.04 1.23 -1.02	43.39 1.27 -1.04	46.97 1.42 -1.24	52.11 1.92 -2.15	59.29 3.22 -2.37	68.48 4.84 -3.17	65.66 4.32 -2.98	54.65 3.49 -1.98	48.02 2.56 -2.01	40.79 1.61 -0.87	38.40 2.09 -1.56
NEG CENTRAL___SENECA 23627	34.75 1.11 0.00	30.81 1.01 0.00	30.75 1.01 0.00	29.25 0.82 0.00	30.10 0.99 0.00	32.52 1.22 0.00	43.06 1.45 -1.44	47.33 1.45 -1.81	44.10 1.03 -1.80	40.78 0.64 -2.35	39.88 0.81 -2.29	39.57 0.55 -2.19	41.39 0.69 -2.09	42.64 1.11 -1.73	44.41 1.56 -1.76	48.16 1.73 -2.12	53.81 2.11 -3.65	60.61 2.95 -3.96	69.64 3.87 -5.30	67.08 3.74 -4.98	55.39 2.90 -3.31	48.72 1.91 -3.36	40.91 1.15 -1.45	38.96 1.60 -2.61
NEG CENTRAL___STATE_STREET 24147	35.47 0.37 -1.46	31.71 0.33 -1.58	30.37 0.33 -0.31	29.12 0.23 -0.47	29.85 0.29 -0.45	32.43 0.41 -0.73	43.56 0.40 -2.99	47.77 0.40 -3.30	44.81 0.25 -3.30	41.86 0.04 -4.03	39.82 0.15 -2.90	39.64 0.04 -2.77	41.44 0.12 -2.71	42.72 0.32 -2.61	44.40 0.49 -2.83	48.50 0.58 -3.61	54.12 0.77 -5.31	60.91 1.18 -6.03	69.52 1.63 -7.42	66.58 1.58 -6.65	55.24 1.18 -4.89	49.26 0.70 -5.12	41.69 0.34 -3.03	39.22 0.56 -3.91
NEG MILLWOOD___DRP 24198	35.71 1.72 -0.36	31.44 1.49 -0.15	31.34 1.46 -0.14	29.82 1.39 0.00	30.59 1.46 -0.02	33.04 1.60 -0.15	43.09 2.33 -0.59	47.63 2.69 -0.87	44.98 2.85 -0.86	41.96 2.68 -1.49	40.10 2.72 -0.60	40.37 2.87 -0.67	42.55 3.05 -0.88	43.54 2.94 -0.80	44.83 2.88 -0.87	48.36 3.06 -1.00	51.77 2.93 -0.79	57.00 3.06 -0.24	64.22 3.08 -0.66	61.94 3.03 -0.55	52.12 2.56 -0.39	46.59 2.35 -0.79	41.14 2.26 -0.57	36.92 1.84 -0.33
NEG NORTH_FLCN_SEA 23793	40.53 1.24 -5.65	37.06 1.16 -6.10	32.11 1.19 -1.18	31.42 1.19 -1.81	32.09 1.25 -1.72	35.45 1.35 -2.81	47.11 1.89 -5.05	50.73 2.07 -4.58	48.05 2.06 -4.72	44.93 2.08 -5.06	39.55 1.95 -0.83	39.53 1.88 -0.82	41.58 1.93 -1.04	44.12 2.14 -2.34	46.24 2.14 -3.03	51.05 2.26 -4.48	54.62 2.50 -4.08	62.06 2.74 -5.63	68.25 2.96 -4.82	64.24 2.63 -3.25	55.41 2.26 -3.97	50.12 2.00 -4.67	45.11 1.61 -5.19	39.47 1.36 -3.36
NEG NORTH_KES_CHATEGAY 23792	45.16 0.54 -10.98	42.17 0.51 -11.87	32.54 0.51 -2.29	32.48 0.54 -3.51	33.02 0.55 -3.35	37.35 0.59 -5.46	50.92 0.92 -9.83	54.00 1.01 -8.92	51.49 1.03 -9.19	48.69 1.06 -9.84	39.34 0.96 -1.61	39.35 0.92 -1.60	41.51 0.89 -2.01	45.25 0.92 -4.55	47.95 0.99 -5.89	54.14 1.11 -8.72	57.23 1.25 -7.94	65.99 1.34 -10.95	71.29 1.45 -9.37	65.92 1.23 -6.33	57.98 1.08 -7.72	53.53 1.00 -9.08	49.17 0.77 -10.09	41.84 0.56 -6.53
NEG NORTH___ALICE_FALLS 23915	41.49 1.24 -6.61	38.10 1.16 -7.15	32.28 1.16 -1.38	31.73 1.19 -2.11	32.35 1.22 -2.02	35.93 1.35 -3.29	47.97 1.89 -5.92	51.51 2.07 -5.37	48.86 2.06 -5.53	45.75 2.04 -5.93	39.66 1.91 -0.97	39.63 1.84 -0.96	41.71 1.89 -1.21	44.44 1.91 -2.74	46.68 2.05 -3.54	51.77 2.22 -5.25	55.32 2.50 -4.78	63.08 2.79 -6.59	69.13 3.02 -5.64	64.86 2.68 -3.81	56.08 2.26 -4.65	50.91 2.00 -5.46	46.03 1.65 -6.07	40.04 1.36 -3.93
NEG NORTH___LWR_SARANAC 23913	41.49 1.24 -6.61	38.10 1.16 -7.15	32.28 1.16 -1.38	31.73 1.19 -2.11	32.35 1.22 -2.02	35.93 1.35 -3.29	47.97 1.89 -5.92	51.51 2.07 -5.37	48.86 2.06 -5.53	45.75 2.04 -5.93	39.66 1.91 -0.97	39.63 1.84 -0.96	41.71 1.89 -1.21	44.44 1.91 -2.74	46.68 2.05 -3.54	51.77 2.22 -5.25	55.32 2.50 -4.78	63.08 2.79 -6.59	69.13 3.02 -5.64	64.86 2.68 -3.81	56.08 2.26 -4.65	50.91 2.00 -5.46	46.03 1.65 -6.07	40.04 1.36 -3.93
NEG NORTH___PLATTSBURG 23628	41.53 1.28 -6.61	38.10 1.16 -7.15	32.28 1.16 -1.38	31.73 1.19 -2.11	32.35 1.22 -2.02	35.90 1.31 -3.29	47.05 0.96 -5.92	50.10 0.66 -5.37	47.58 0.78 -5.53	45.03 1.32 -5.93	39.00 1.25 -0.97	38.97 1.18 -0.96	40.98 1.16 -1.21	43.72 1.19 -2.74	45.90 1.27 -3.54	50.36 0.80 -5.25	53.73 0.91 -4.78	61.26 0.97 -6.59	67.14 1.03 -5.64	62.93 0.76 -3.81	54.51 0.69 -4.65	49.52 0.61 -5.46	45.30 0.92 -6.07	40.04 1.35 -3.93
NEG WEST_LEA_LOCKPORT 23791	33.97 0.34 0.00	30.33 0.54 0.00	30.07 0.33 0.00	28.51 0.09 0.00	29.26 0.15 0.00	31.52 0.22 0.00	39.83 -1.08 -0.75	43.10 -1.90 -0.92	40.08 -2.10 -0.92	37.36 -1.62 -1.20	37.21 -0.74 -1.17	36.62 -1.33 -1.12	38.56 -1.12 -1.07	40.32 -0.36 -0.88	42.35 0.37 -0.90	44.86 -0.53 -1.08	49.67 -0.24 -1.87	56.40 0.64 -2.06	64.62 1.39 -2.76	61.83 0.88 -2.59	51.15 0.25 -1.73	45.15 -0.04 -1.75	38.19 -0.88 -0.75	36.81 0.70 -1.36
NEG WEST___LANCASTR 23811	33.67 0.03 0.00	30.01 0.21 0.00	29.77 0.03 0.00	28.11 -0.31 0.00	28.97 -0.15 0.00	31.27 -0.03 0.00	40.18 -0.76 -0.78	43.62 -1.41 -0.96	40.45 -1.77 -0.95	37.67 -1.36 -1.25	37.40 -0.59 -1.21	36.96 -1.03 -1.16	38.83 -0.89 -1.11	40.47 -0.24 -0.92	42.55 0.53 -0.93	45.16 -0.27 -1.12	50.03 0.05 -1.93	56.70 0.86 -2.14	64.85 1.51 -2.87	62.04 0.99 -2.69	51.26 0.30 -1.79	45.26 0.00 -1.81	38.29 -0.80 -0.78	36.69 0.52 -1.41
NEG_PENN_ALLEGHNY 23528	34.17 0.54 0.00	30.30 0.51 0.00	30.25 0.51 0.00	28.79 0.37 0.00	29.55 0.44 0.00	31.83 0.53 0.00	41.67 0.56 -0.94	45.70 0.49 -1.15	42.74 0.33 -1.14	39.51 0.23 -1.49	38.63 0.41 -1.45	38.55 0.33 -1.39	40.36 0.43 -1.32	41.61 0.72 -1.10	42.98 0.78 -1.12	46.49 0.84 -1.34	51.23 0.87 -2.32	57.51 1.24 -2.58	65.49 1.57 -3.45	63.06 1.46 -3.24	52.51 1.18 -2.16	46.50 0.87 -2.18	39.83 0.58 -0.94	37.22 0.76 -1.70
NEG___GEN_MONROE 24207	34.11 0.47 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.65 0.23 0.00	29.37 0.26 0.00	31.71 0.41 0.00	40.86 -0.04 -0.74	44.50 -0.48 -0.91	41.55 -0.62 -0.90	38.36 -0.60 -1.18	37.85 -0.07 -1.15	37.45 -0.48 -1.10	39.39 -0.27 -1.05	40.94 0.28 -0.87	42.58 0.62 -0.88	45.64 0.27 -1.06	50.50 0.62 -1.83	57.01 1.29 -2.02	65.23 2.06 -2.70	62.59 1.69 -2.54	52.09 1.23 -1.69	45.90 0.74 -1.71	39.13 0.08 -0.74	36.99 0.90 -1.33
NEPA___ENERGY 23901	34.18 0.54 0.00	30.48 0.69 0.00	30.19 0.45 0.00	28.51 0.09 0.00	29.40 0.29 0.00	31.77 0.47 0.00	40.87 -0.08 -0.78	44.37 -0.66 -0.96	41.07 -1.16 -0.96	38.24 -0.79 -1.25	37.99 0.00 -1.22	37.51 -0.48 -1.16	39.45 -0.27 -1.11	41.07 0.36 -0.92	43.21 1.19 -0.94	45.97 0.53 -1.12	50.85 0.86 -1.94	57.62 1.77 -2.15	65.88 2.54 -2.87	63.05 1.98 -2.70	52.10 1.13 -1.80	45.97 0.70 -1.82	38.91 -0.19 -0.79	37.28 1.11 -1.41



NEVERSINK___HYD 23608	35.76 1.88 -0.24	31.56 1.67 -0.10	31.44 1.60 -0.09	29.99 1.56 0.00	30.70 1.57 -0.02	33.12 1.72 -0.10	43.13 2.57 -0.39	47.56 2.91 -0.57	44.56 2.72 -0.57	41.23 2.45 -0.99	39.56 2.39 -0.40	39.74 2.47 -0.44	41.55 2.36 -0.59	42.55 2.23 -0.53	43.96 2.30 -0.58	47.58 2.61 -0.66	51.16 2.59 -0.53	56.70 2.84 -0.16	63.87 2.96 -0.44	61.76 3.03 -0.36	51.94 2.51 -0.26	46.19 2.21 -0.53	40.83 2.14 -0.38	36.74 1.77 -0.22
NEWKRMKL_115KV_TB1 55635	33.66 0.34 0.31	29.96 0.30 0.13	30.00 0.39 0.12	28.79 0.37 0.00	29.44 0.35 0.02	31.55 0.38 0.13	40.05 0.40 0.52	43.80 0.48 0.76	40.88 0.37 0.76	36.81 0.34 1.31	36.32 0.07 0.53	36.35 0.11 0.59	37.91 0.08 0.78	39.09 0.00 0.70	40.32 0.00 0.77	43.48 0.04 0.88	47.49 0.14 0.70	53.70 0.21 0.21	60.06 0.18 0.58	58.11 0.23 0.48	49.03 0.20 0.34	43.01 0.26 0.70	38.16 0.34 0.50	34.68 0.21 0.29
NEWTON___FALLS_HYD 23847	84.50 0.54 -50.32	84.59 0.42 -54.38	40.48 0.24 -10.51	44.62 0.11 -16.09	44.61 0.15 -15.35	56.55 0.25 -25.00	86.20 0.44 -45.59	86.28 0.71 -41.50	84.51 0.50 -42.75	84.03 0.30 -45.94	45.17 0.18 -8.21	45.24 0.29 -8.12	49.05 0.46 -9.98	61.68 0.44 -21.45	69.09 0.41 -27.60	85.73 0.71 -40.71	86.58 0.86 -37.67	106.43 1.07 -51.65	106.86 1.45 -44.94	90.94 1.69 -30.89	87.03 1.23 -36.63	87.43 1.13 -42.85	85.92 0.84 -46.77	66.29 0.63 -30.91
NGRID_A1_DSASP 323792	33.20 -0.44 0.00	29.65 -0.15 0.00	29.32 -0.42 0.00	28.40 -0.03 0.00	28.39 -0.73 0.00	30.77 -0.53 0.00	39.26 -1.65 -0.75	42.26 -2.73 -0.92	39.37 -2.81 -0.91	36.67 -2.31 -1.19	36.65 -1.29 -1.16	36.24 -1.69 -1.11	38.09 -1.58 -1.06	40.15 -0.52 -0.88	41.28 -0.70 -0.89	44.01 -1.37 -1.07	48.55 -1.34 -1.85	55.16 -0.59 -2.05	63.33 0.12 -2.74	60.47 -0.47 -2.58	50.20 -0.69 -1.72	44.49 -0.70 -1.74	37.76 -1.30 -0.75	36.87 0.76 -1.35
NGRID_A2_DSASP 323793	33.20 -0.44 0.00	29.65 -0.15 0.00	29.32 -0.42 0.00	28.40 -0.03 0.00	28.39 -0.73 0.00	30.77 -0.53 0.00	39.26 -1.65 -0.75	42.26 -2.73 -0.92	39.37 -2.81 -0.91	36.67 -2.31 -1.19	36.65 -1.29 -1.16	36.24 -1.69 -1.11	38.09 -1.58 -1.06	40.15 -0.52 -0.88	41.28 -0.70 -0.89	44.01 -1.37 -1.07	48.55 -1.34 -1.85	55.16 -0.59 -2.05	63.33 0.12 -2.74	60.47 -0.47 -2.58	50.20 -0.69 -1.72	44.49 -0.70 -1.74	37.76 -1.30 -0.75	36.87 0.76 -1.35
NGRID_A4_DSASP 323807	33.20 -0.44 0.00	29.65 -0.15 0.00	29.32 -0.42 0.00	28.40 -0.03 0.00	28.39 -0.73 0.00	30.77 -0.53 0.00	39.26 -1.65 -0.75	42.26 -2.73 -0.92	39.37 -2.81 -0.91	36.67 -2.31 -1.19	36.65 -1.29 -1.16	36.24 -1.69 -1.11	38.09 -1.58 -1.06	40.15 -0.52 -0.88	41.28 -0.70 -0.89	44.01 -1.37 -1.07	48.55 -1.34 -1.85	55.16 -0.59 -2.05	63.33 0.12 -2.74	60.47 -0.47 -2.58	50.20 -0.69 -1.72	44.49 -0.70 -1.74	37.76 -1.30 -0.75	36.87 0.76 -1.35
NIAGARA_115E_LBMP 323715	33.84 0.20 0.00	30.16 0.36 0.00	29.83 0.09 0.00	28.00 -0.43 0.00	28.88 -0.23 0.00	31.36 0.06 0.00	39.15 -1.77 -0.75	42.40 -2.60 -0.92	39.46 -2.72 -0.92	36.76 -2.23 -1.20	36.69 -1.25 -1.17	36.33 -1.62 -1.12	38.13 -1.55 -1.07	40.24 -0.44 -0.88	41.37 -0.62 -0.90	44.15 -1.24 -1.08	48.71 -1.20 -1.86	55.22 -0.54 -2.06	63.41 0.18 -2.76	60.55 -0.41 -2.59	50.26 -0.64 -1.73	44.50 -0.70 -1.75	37.88 -1.19 -0.75	36.29 0.17 -1.36
NIAGARA_115W_LBMP 323714	33.13 -0.50 0.00	29.59 -0.21 0.00	29.26 -0.48 0.00	28.37 -0.06 0.00	28.33 -0.78 0.00	30.67 -0.63 0.00	39.19 -1.73 -0.75	42.13 -2.86 -0.92	39.25 -2.93 -0.91	36.60 -2.38 -1.19	36.54 -1.40 -1.16	36.17 -1.77 -1.11	37.97 -1.70 -1.06	40.03 -0.64 -0.88	41.15 -0.82 -0.89	43.92 -1.46 -1.07	48.41 -1.49 -1.85	54.99 -0.75 -2.05	63.15 -0.06 -2.74	60.30 -0.64 -2.58	50.05 -0.84 -1.71	44.36 -0.83 -1.74	37.68 -1.38 -0.75	36.83 0.73 -1.35
NIAGARA_230_LBMP 323716	33.60 -0.03 0.00	29.92 0.12 0.00	29.59 -0.15 0.00	28.23 -0.20 0.00	28.68 -0.44 0.00	31.11 -0.19 0.00	39.54 -1.37 -0.74	42.78 -2.20 -0.91	39.82 -2.35 -0.91	37.08 -1.89 -1.18	37.01 -0.92 -1.15	36.64 -1.29 -1.10	38.46 -1.20 -1.05	40.50 -0.16 -0.87	41.68 -0.29 -0.89	44.49 -0.89 -1.07	49.02 -0.86 -1.84	55.68 -0.05 -2.03	63.86 0.67 -2.72	60.98 0.06 -2.56	50.68 -0.20 -1.70	44.91 -0.26 -1.72	38.18 -0.88 -0.74	36.62 0.52 -1.34
NIAGARA___115KV_198_GIBSON 55903	33.07 -0.57 0.00	29.59 -0.21 0.00	29.32 -0.42 0.00	27.83 -0.60 0.00	28.53 -0.58 0.00	30.67 -0.63 0.00	39.27 -1.65 -0.75	42.12 -2.86 -0.92	39.25 -2.93 -0.91	36.64 -2.34 -1.19	36.50 -1.43 -1.16	35.87 -2.06 -1.11	37.78 -1.89 -1.06	39.51 -1.15 -0.88	41.48 -0.49 -0.89	43.92 -1.46 -1.07	48.65 -1.25 -1.85	55.21 -0.54 -2.05	63.21 0.00 -2.74	60.41 -0.53 -2.58	50.05 -0.84 -1.71	44.27 -0.91 -1.74	37.38 -1.69 -0.75	36.80 0.70 -1.35
NIAGARA____ 23760	33.60 -0.03 0.00	29.92 0.12 0.00	29.59 -0.15 0.00	28.23 -0.20 0.00	28.68 -0.44 0.00	31.11 -0.19 0.00	39.55 -1.37 -0.75	42.79 -2.20 -0.92	39.83 -2.35 -0.91	37.09 -1.89 -1.20	37.02 -0.92 -1.17	36.65 -1.29 -1.11	38.47 -1.20 -1.06	40.51 -0.16 -0.88	41.69 -0.29 -0.89	44.50 -0.89 -1.07	49.03 -0.86 -1.85	55.69 -0.05 -2.05	63.87 0.67 -2.74	60.99 0.06 -2.57	50.69 -0.20 -1.71	44.93 -0.26 -1.74	38.18 -0.88 -0.75	36.63 0.52 -1.36
NINE_MILE_1 23575	32.90 -0.74 0.00	29.14 -0.66 0.00	29.09 -0.65 0.00	27.80 -0.63 0.00	28.44 -0.67 0.00	30.64 -0.66 0.00	29.34 -0.92 9.90	31.05 -1.10 11.93	28.35 -1.03 11.89	21.24 -1.02 15.53	20.71 -0.92 15.14	21.42 -0.96 14.45	23.86 -0.96 13.79	27.51 -0.88 11.41	28.55 -0.90 11.63	29.36 -0.98 13.98	22.92 -1.01 24.11	25.52 -1.02 27.16	23.08 -1.03 36.36	23.20 -0.99 34.17	25.56 -0.88 22.73	19.56 -0.87 23.02	27.50 -0.88 9.94	16.17 -0.69 17.89
NINE_MILE_2 23744	32.90 -0.74 0.00	29.14 -0.66 0.00	29.09 -0.65 0.00	27.80 -0.63 0.00	28.44 -0.67 0.00	30.64 -0.66 0.00	29.17 -0.92 10.07	30.84 -1.10 12.13	28.14 -1.03 12.09	20.97 -1.02 15.79	20.45 -0.92 15.40	21.17 -0.96 14.70	23.62 -0.96 14.02	27.32 -0.88 11.60	28.35 -0.90 11.83	29.12 -0.98 14.22	22.51 -1.01 24.53	25.06 -1.02 27.62	22.46 -1.03 36.98	22.62 -0.99 34.75	25.18 -0.88 23.11	19.17 -0.87 23.41	27.36 -0.84 10.10	15.86 -0.69 18.20
NM_CAPITAL___DRP 24208	33.69 0.40 0.35	30.01 0.36 0.15	30.05 0.45 0.14	28.85 0.43 0.00	29.50 0.41 0.02	31.59 0.44 0.14	40.11 0.52 0.58	43.84 0.62 0.85	40.96 0.54 0.84	36.82 0.49 1.46	36.41 0.22 0.59	36.43 0.26 0.65	37.98 0.23 0.87	39.17 0.16 0.78	40.35 0.12 0.85	43.56 0.22 0.97	47.56 0.29 0.77	53.78 0.32 0.24	60.12 0.30 0.65	58.12 0.29 0.53	49.09 0.30 0.38	43.02 0.35 0.78	38.18 0.42 0.56	34.71 0.28 0.32
NM_CENTRAL___DRP 24181	35.85 -0.03 -2.25	32.19 -0.03 -2.43	30.18 -0.03 -0.47	29.09 -0.06 -0.72	29.77 -0.03 -0.68	32.38 -0.03 -1.12	43.29 -0.20 -3.33	47.21 -0.26 -3.41	44.44 -0.29 -3.46	41.52 -0.34 -4.07	38.89 -0.22 -2.34	38.78 -0.29 -2.24	40.62 -0.23 -2.24	42.12 -0.12 -2.44	43.79 -0.04 -2.75	47.90 -0.04 -3.64	52.87 0.00 -4.82	59.72 0.16 -5.86	67.59 0.36 -6.76	64.56 0.35 -5.85	54.03 0.25 -4.61	48.37 0.00 -4.92	41.51 -0.19 -3.39	38.47 0.00 -3.72



NM_FRONTIER___DRP 24179	33.07 -0.57 0.00	29.59 -0.21 0.00	29.32 -0.42 0.00	27.83 -0.60 0.00	28.53 -0.58 0.00	30.67 -0.63 0.00	39.27 -1.65 -0.75	42.12 -2.86 -0.92	39.25 -2.93 -0.91	36.64 -2.34 -1.19	36.50 -1.43 -1.16	35.87 -2.06 -1.11	37.78 -1.89 -1.06	39.51 -1.15 -0.88	41.48 -0.49 -0.89	43.92 -1.46 -1.07	48.65 -1.25 -1.85	55.21 -0.54 -2.05	63.21 0.00 -2.74	60.41 -0.53 -2.58	50.05 -0.84 -1.71	44.27 -0.91 -1.74	37.38 -1.69 -0.75	36.80 0.70 -1.35
NM_ST_REGIS___HYD 24053	98.52 0.40 -64.48	99.84 0.36 -69.68	43.50 0.30 -13.46	49.32 0.28 -20.61	49.10 0.32 -19.67	63.72 0.38 -32.04	98.75 0.60 -57.98	97.48 0.75 -52.66	96.23 0.70 -54.26	96.62 0.64 -58.19	47.19 0.55 -9.87	47.15 0.55 -9.77	51.34 0.54 -12.19	67.33 0.56 -26.99	76.52 0.58 -34.86	96.57 0.71 -51.56	96.08 0.82 -47.22	119.55 0.86 -65.00	117.43 0.97 -55.99	97.44 0.99 -38.08	95.90 0.79 -45.93	98.13 0.78 -53.90	98.41 0.61 -59.49	73.99 0.42 -38.82
NORTHPORT___1 23551	35.64 1.58 -0.42	31.20 1.22 -0.18	30.65 0.74 -0.17	29.14 0.71 0.00	30.04 0.90 -0.03	32.41 0.94 -0.17	42.63 1.77 -0.70	46.54 1.45 -1.01	44.59 2.31 -1.02	42.53 2.98 -1.76	40.65 3.16 -0.71	41.08 3.46 -0.79	42.55 2.90 -1.04	43.24 2.51 -0.94	44.29 2.18 -1.03	47.52 2.04 -1.18	51.13 2.16 -0.93	55.69 1.72 -0.28	62.76 1.51 -0.78	60.34 1.34 -0.64	50.80 1.18 -0.45	45.59 1.21 -0.93	41.51 2.53 -0.67	37.12 1.98 -0.38
NORTHPORT___2 23552	35.64 1.58 -0.42	31.20 1.22 -0.18	30.65 0.74 -0.17	29.14 0.71 0.00	30.04 0.90 -0.03	32.41 0.94 -0.17	42.63 1.77 -0.70	46.54 1.45 -1.01	44.59 2.31 -1.02	42.53 2.98 -1.76	40.65 3.16 -0.71	41.08 3.46 -0.79	42.55 2.90 -1.04	43.24 2.51 -0.94	44.29 2.18 -1.03	47.52 2.04 -1.18	51.13 2.16 -0.93	55.69 1.72 -0.28	62.76 1.51 -0.78	60.34 1.34 -0.64	50.80 1.18 -0.45	45.59 1.21 -0.93	41.51 2.53 -0.67	37.12 1.98 -0.38
NORTHPORT___3 23553	35.10 1.04 -0.42	30.72 0.75 -0.18	30.20 0.30 -0.17	28.71 0.28 0.00	29.60 0.46 -0.03	31.94 0.47 -0.17	42.07 1.20 -0.70	45.61 0.53 -1.01	43.73 1.44 -1.02	41.97 2.42 -1.76	39.91 2.43 -0.71	40.24 2.62 -0.79	41.47 1.82 -1.04	42.24 1.51 -0.94	43.33 1.23 -1.02	46.54 1.06 -1.17	50.02 1.06 -0.92	54.56 0.59 -0.27	61.49 0.24 -0.78	59.16 0.18 -0.63	49.71 0.10 -0.44	44.68 0.31 -0.92	40.59 1.61 -0.67	36.49 1.35 -0.38
NORTHPORT___4 23650	35.10 1.04 -0.42	30.72 0.75 -0.18	30.20 0.30 -0.17	28.71 0.28 0.00	29.60 0.46 -0.03	31.94 0.47 -0.17	42.07 1.20 -0.70	45.61 0.53 -1.01	43.73 1.44 -1.02	41.97 2.42 -1.76	39.91 2.43 -0.71	40.24 2.62 -0.79	41.47 1.82 -1.04	42.24 1.51 -0.94	43.33 1.23 -1.02	46.54 1.06 -1.17	50.02 1.06 -0.92	54.56 0.59 -0.27	61.49 0.24 -0.78	59.16 0.18 -0.63	49.71 0.10 -0.44	44.68 0.31 -0.92	40.59 1.61 -0.67	36.49 1.35 -0.38
NORTHPORT___IC 23718	35.74 1.68 -0.42	31.28 1.31 -0.18	30.80 0.89 -0.17	29.25 0.82 0.00	30.19 1.05 -0.03	32.54 1.06 -0.17	42.67 1.81 -0.70	46.59 1.50 -1.01	44.60 2.31 -1.02	42.46 2.91 -1.76	40.83 3.35 -0.71	41.12 3.50 -0.79	43.09 3.44 -1.04	43.56 2.83 -0.94	44.12 2.01 -1.03	47.35 1.86 -1.18	50.65 1.68 -0.93	55.37 1.40 -0.28	62.58 1.33 -0.78	60.11 1.11 -0.64	50.56 0.93 -0.45	45.46 1.09 -0.93	41.55 2.57 -0.67	37.12 1.98 -0.38
NORTH___COUNTRY_ESR 323785	45.17 0.44 -11.10	42.21 0.42 -12.00	32.51 0.45 -2.32	32.46 0.48 -3.55	32.99 0.49 -3.39	37.31 0.50 -5.52	50.34 0.24 -9.94	53.17 0.09 -9.01	50.76 0.21 -9.29	48.30 0.57 -9.95	38.92 0.51 -1.63	38.92 0.48 -1.62	41.07 0.43 -2.04	44.82 0.44 -4.59	47.53 0.49 -5.95	53.30 0.18 -8.81	56.26 0.19 -8.02	64.98 0.22 -11.06	70.06 0.12 -9.47	64.76 0.00 -6.40	56.98 0.00 -7.80	52.67 0.04 -9.17	48.78 0.27 -10.20	41.84 0.49 -6.60
NPX_GEN_1385_PROXY 323591	35.64 1.58 -0.42	31.20 1.22 -0.18	30.65 0.74 -0.17	29.14 0.71 0.00	30.04 0.90 -0.03	32.41 0.94 -0.17	42.63 1.77 -0.70	46.54 1.45 -1.01	44.59 2.31 -1.02	42.53 2.98 -1.76	40.65 3.16 -0.71	41.08 3.46 -0.79	42.55 2.90 -1.04	43.24 2.51 -0.94	44.29 2.18 -1.03	47.52 2.04 -1.18	51.13 2.16 -0.93	55.69 1.72 -0.28	62.76 1.51 -0.78	60.34 1.34 -0.64	50.80 1.18 -0.45	45.59 1.21 -0.93	41.51 2.53 -0.67	37.12 1.98 -0.38
NPX_GEN_CSC 323557	34.68 1.04 0.00	30.54 0.75 0.00	29.95 0.21 0.00	28.62 0.20 0.00	29.49 0.38 0.00	31.68 0.38 0.00	41.17 1.00 0.00	44.81 0.75 0.01	42.87 1.61 0.00	40.13 2.34 0.00	39.35 2.57 0.00	39.74 2.91 -0.01	40.89 2.28 0.00	41.78 1.99 0.00	42.77 1.69 0.00	45.86 1.55 0.00	49.76 1.73 0.01	54.82 1.13 0.01	61.25 0.78 0.00	59.00 0.64 0.01	49.80 0.64 0.01	44.27 0.82 0.01	40.34 2.03 0.00	36.25 1.49 0.00
NSINS_S_GLNS_FALLS 23858	34.72 1.51 0.43	30.84 1.22 0.18	30.97 1.40 0.17	29.68 1.25 0.00	30.34 1.25 0.03	32.59 1.47 0.18	41.14 1.69 0.71	44.75 1.72 1.04	40.77 0.54 1.03	36.34 0.34 1.79	35.72 -0.33 0.72	35.59 -0.44 0.80	37.09 -0.46 1.06	38.52 -0.32 0.96	39.75 -0.29 1.04	43.25 0.13 1.19	47.86 0.77 0.95	55.39 1.99 0.29	62.39 2.72 0.80	60.45 2.74 0.65	50.92 2.21 0.46	44.28 1.78 0.95	39.35 1.72 0.68	35.65 1.29 0.39
NUCOR_STEEL___DRP 24197	35.50 0.37 -1.50	31.74 0.33 -1.62	30.38 0.33 -0.31	29.16 0.26 -0.48	29.86 0.29 -0.46	32.42 0.38 -0.74	43.58 0.36 -3.05	47.76 0.31 -3.38	44.84 0.21 -3.37	41.94 0.04 -4.12	39.88 0.15 -2.96	39.70 0.04 -2.83	41.49 0.12 -2.77	42.78 0.32 -2.67	44.42 0.45 -2.89	48.53 0.53 -3.69	54.14 0.67 -5.42	60.93 1.07 -6.15	69.50 1.45 -7.58	66.54 1.40 -6.78	55.24 1.08 -4.99	49.33 0.65 -5.22	41.75 0.34 -3.09	39.26 0.52 -3.99
NUMBER_THREE_WT_PWR 323818	56.42 0.87 -21.91	54.19 0.71 -23.68	34.61 0.30 -4.57	35.51 0.09 -7.00	35.88 0.09 -6.68	42.43 0.25 -10.89	60.88 0.44 -20.28	63.40 0.75 -18.58	60.84 0.45 -19.12	58.64 0.19 -20.67	41.11 0.11 -4.22	41.27 0.29 -4.15	44.28 0.73 -4.93	50.34 0.72 -9.83	54.29 0.70 -12.51	63.74 1.11 -18.32	66.77 1.30 -17.43	79.03 1.67 -23.66	83.84 2.24 -21.14	75.91 2.63 -14.92	68.02 1.92 -16.93	64.79 1.69 -19.65	60.40 1.30 -20.79	50.03 1.04 -14.23
NYISO_LBMP_REFERENCE 24008	33.64 0.00 0.00	29.80 0.00 0.00	29.74 0.00 0.00	28.42 0.00 0.00	29.11 0.00 0.00	31.30 0.00 0.00	40.17 0.00 0.00	44.07 0.00 0.00	41.27 0.00 0.00	37.79 0.00 0.00	36.77 0.00 0.00	36.83 0.00 0.00	38.61 0.00 0.00	39.79 0.00 0.00	41.08 0.00 0.00	44.31 0.00 0.00	48.04 0.00 0.00	53.70 0.00 0.00	60.47 0.00 0.00	58.36 0.00 0.00	49.17 0.00 0.00	43.45 0.00 0.00	38.31 0.00 0.00	34.75 0.00 0.00
NYPA_BRENTWD____GT 24164	35.98 1.92 -0.42	31.49 1.52 -0.18	30.92 1.01 -0.17	29.36 0.94 0.00	30.31 1.17 -0.03	32.73 1.25 -0.17	43.11 2.25 -0.70	47.16 2.07 -1.01	45.09 2.81 -1.02	42.99 3.44 -1.76	41.16 3.68 -0.71	41.60 3.98 -0.80	43.05 3.40 -1.04	43.88 3.14 -0.94	44.94 2.83 -1.03	48.28 2.79 -1.18	51.95 2.98 -0.93	56.61 2.63 -0.28	63.85 2.60 -0.78	61.39 2.39 -0.64	51.59 1.97 -0.45	46.29 1.91 -0.93	41.93 2.95 -0.67	37.50 2.36 -0.38



NYPA_GOWANUS____GT5 24156	36.02	31.65	31.43	29.70	30.62	33.01	43.36	48.09	45.51	42.72	40.75	41.07	43.13	44.04	45.48	48.85	52.53	57.37	64.58	62.15	52.24	46.91	41.44	37.08
	1.95	1.67	1.52	1.28	1.48	1.53	2.49	3.00	3.22	3.17	3.27	3.46	3.48	3.30	3.37	3.37	3.56	3.39	3.32	3.15	2.60	2.52	2.45	1.95
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
NYPA_GOWANUS____GT6 24157	36.02	31.65	31.43	29.70	30.62	33.01	43.36	48.09	45.51	42.72	40.75	41.07	43.13	44.04	45.48	48.85	52.53	57.37	64.58	62.15	52.24	46.91	41.44	37.08
	1.95	1.67	1.52	1.28	1.48	1.53	2.49	3.00	3.22	3.17	3.27	3.46	3.48	3.30	3.37	3.37	3.56	3.39	3.32	3.15	2.60	2.52	2.45	1.95
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
NYPA_HARLEM__RVR__GT1 24160	35.85	31.47	31.26	29.67	30.57	32.82	42.99	47.60	45.12	42.37	40.38	40.70	42.70	43.59	45.02	48.31	51.85	56.66	63.72	61.33	51.54	46.34	41.09	36.91
	1.78	1.49	1.34	1.25	1.43	1.34	2.13	2.51	2.85	2.84	2.90	3.09	3.05	2.87	2.92	2.84	2.88	2.68	2.48	2.34	1.92	1.96	2.11	1.77
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.01	-1.01	-1.75	-0.70	-0.78	-1.04	-0.94	-1.02	-1.17	-0.93	-0.28	-0.78	-0.64	-0.45	-0.93	-0.67	-0.38
NYPA_HARLEM__RVR__GT2 24161	35.85	31.47	31.26	29.67	30.57	32.82	42.99	47.60	45.12	42.37	40.38	40.70	42.70	43.59	45.02	48.31	51.85	56.66	63.72	61.33	51.54	46.34	41.09	36.91
	1.78	1.49	1.34	1.25	1.43	1.34	2.13	2.51	2.85	2.84	2.90	3.09	3.05	2.87	2.92	2.84	2.88	2.68	2.48	2.34	1.92	1.96	2.11	1.77
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.01	-1.01	-1.75	-0.70	-0.78	-1.04	-0.94	-1.02	-1.17	-0.93	-0.28	-0.78	-0.64	-0.45	-0.93	-0.67	-0.38
NYPA_KENT____GT 24152	35.92	31.56	31.37	29.70	30.60	32.97	43.31	48.00	45.46	42.68	40.68	41.00	43.05	43.96	45.40	48.76	52.39	57.26	64.46	61.98	52.14	46.82	41.36	37.05
	1.85	1.58	1.46	1.28	1.46	1.50	2.45	2.91	3.18	3.13	3.20	3.39	3.40	3.22	3.29	3.28	3.41	3.28	3.20	2.97	2.51	2.43	2.38	1.91
	-0.43	-0.18	-0.18	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
NYPA_POUCH1____GT 24155	36.05	31.71	31.49	29.59	19.08	24.41	26.74	27.12	27.09	27.10	27.67	27.75	28.02	27.99	27.76	28.01	30.93	36.77	37.06	28.29	28.21	28.16	27.62	26.71
	1.98	1.73	1.58	1.17	1.48	1.50	2.49	2.95	3.18	3.17	3.24	3.46	3.48	3.30	3.37	3.37	3.56	3.39	3.32	3.15	2.60	2.52	2.42	1.95
	-0.43	-0.18	-0.17	0.00	11.52	8.39	15.91	19.91	17.35	13.87	12.34	12.54	14.07	15.10	16.69	19.67	20.67	20.31	26.73	33.22	23.57	17.81	13.11	9.99
NYPA_VERNON____GT2 24162	35.82	31.47	31.29	29.67	30.54	32.94	43.27	47.96	45.38	42.61	40.61	40.93	42.98	43.88	45.32	48.68	52.25	57.15	64.27	61.86	51.99	46.73	41.28	36.98
	1.75	1.49	1.37	1.25	1.40	1.47	2.41	2.86	3.10	3.06	3.12	3.32	3.32	3.14	3.21	3.19	3.27	3.17	3.02	2.86	2.36	2.34	2.30	1.84
	-0.43	-0.19	-0.18	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
NYPA_VERNON____GT3 24163	35.82	31.47	31.29	29.67	30.54	32.94	43.27	47.96	45.38	42.61	40.61	40.93	42.98	43.88	45.32	48.68	52.25	57.15	64.27	61.86	51.99	46.73	41.28	36.98
	1.75	1.49	1.37	1.25	1.40	1.47	2.41	2.86	3.10	3.06	3.12	3.32	3.32	3.14	3.21	3.19	3.27	3.17	3.02	2.86	2.36	2.34	2.30	1.84
	-0.43	-0.19	-0.18	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
NYPA____ASTORIA_CC1 323568	35.78	31.47	31.26	29.65	30.51	32.88	43.19	47.87	45.30	42.53	40.53	40.85	42.90	43.80	45.23	48.59	52.15	56.99	64.15	61.69	51.89	46.60	41.21	36.91
	1.71	1.49	1.34	1.22	1.37	1.41	2.33	2.78	3.01	2.98	3.05	3.24	3.24	3.06	3.12	3.10	3.17	3.01	2.90	2.69	2.26	2.21	2.22	1.77
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
NYPA____ASTORIA_CC2 323569	35.78	31.47	31.26	29.65	30.51	32.88	43.19	47.87	45.30	42.53	40.53	40.85	42.90	43.80	45.23	48.59	52.15	56.99	64.15	61.69	51.89	46.60	41.21	36.91
	1.71	1.49	1.34	1.22	1.37	1.41	2.33	2.78	3.01	2.98	3.05	3.24	3.24	3.06	3.12	3.10	3.17	3.01	2.90	2.69	2.26	2.21	2.22	1.77
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.02	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.29	-0.78	-0.64	-0.46	-0.94	-0.67	-0.38
NYPA____HOLTSVILL 23794	35.37	30.99	30.41	28.91	29.81	32.13	42.23	46.23	44.22	42.19	40.35	40.79	42.24	43.04	44.08	47.35	50.99	55.48	62.40	59.99	50.55	45.51	41.32	36.91
	1.31	1.01	0.51	0.48	0.67	0.66	1.37	1.14	1.94	2.64	2.87	3.17	2.59	2.31	1.97	1.86	2.02	1.50	1.15	0.99	0.93	1.13	2.34	1.77
	-0.42	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.01	-1.02	-1.76	-0.71	-0.79	-1.04	-0.94	-1.03	-1.18	-0.93	-0.28	-0.78	-0.64	-0.45	-0.93	-0.67	-0.38
NYPA____HELLGATE_GT1 24158	35.85	31.47	31.26	29.67	30.57	32.82	42.99	47.60	45.12	42.37	40.38	40.70	42.70	43.59	45.02	48.31	51.85	56.66	63.72	61.33	51.54	46.34	41.09	36.91
	1.78	1.49	1.34	1.25	1.43	1.34	2.13	2.51	2.85	2.84	2.90	3.09	3.05	2.87	2.92	2.84	2.88	2.68	2.48	2.34	1.92	1.96	2.11	1.77
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.01	-1.01	-1.75	-0.70	-0.78	-1.04	-0.94	-1.02	-1.17	-0.93	-0.28	-0.78	-0.64	-0.45	-0.93	-0.67	-0.38
NYPA____HELLGATE_GT2 24159	35.85	31.47	31.26	29.67	30.57	32.82	42.99	47.60	45.12	42.37	40.38	40.70	42.70	43.59	45.02	48.31	51.85	56.66	63.72	61.33	51.54	46.34	41.09	36.91
	1.78	1.49	1.34	1.25	1.43	1.34	2.13	2.51	2.85	2.84	2.90	3.09	3.05	2.87	2.92	2.84	2.88	2.68	2.48	2.34	1.92	1.96	2.11	1.77
	-0.43	-0.18	-0.17	0.00	-0.03	-0.17	-0.70	-1.01	-1.01	-1.75	-0.70	-0.78	-1.04	-0.94	-1.02	-1.17	-0.93	-0.28	-0.78	-0.64	-0.45	-0.93	-0.67	-0.38
NYS_BARGE____HYD 23848	34.11	30.39	30.04	28.37	29.08	31.58	39.75	43.10	40.08	37.29	37.21	36.84	38.71	40.83	41.98	44.86	49.52	56.14	64.55	61.59	51.14	45.24	38.45	36.81
	0.47	0.60	0.30	-0.06	-0.03	0.28	-1.17	-1.89	-2.10	-1.70	-0.74	-1.10	-0.96	0.16	0.00	-0.53	-0.39	0.38	1.33	0.64	0.25	0.04	-0.61	0.69
	0.00	0.00	0.00	0.00	0.00	0.00	-0.75	-0.92	-0.92	-1.20	-1.17	-1.12	-1.07	-0.88	-0.90	-1.08	-1.86	-2.06	-2.76	-2.59	-1.72	-1.75	-0.75	-1.36
OAK ORCHARD____HYD 24046	33.97	30.16	29.92	28.62	29.14	31.58	40.82	44.58	41.63	38.40	37.89	37.67	39.58	41.22	42.46	45.72	50.45	56.95	65.10	62.41	52.04	45.94	39.28	36.78
	0.34	0.36	0.18	0.20	0.03	0.28	-0.08	-0.40	-0.54	-0.57	-0.04	-0.26	-0.08	0.56	0.49	0.35	0.58	1.24	1.93	1.51	1.18	0.78	0.23	0.69
	0.00	0.00	0.00	0.00	0.00	0.00	-0.74	-0.91	-0.90	-1.18	-1.15	-1.10	-1.05	-0.87	-0.88	-1.06	-1.83	-2.02	-2.70	-2.54	-1.69	-1.71	-0.74	-1.33



OAKDALE___35_KV_LOAD 356122	34.01 0.37 0.00	30.18 0.39 0.00	30.10 0.36 0.00	28.68 0.26 0.00	29.43 0.32 0.00	31.67 0.38 0.00	41.46 0.36 -0.93	45.47 0.26 -1.14	42.48 0.08 -1.13	39.34 0.08 -1.48	38.47 0.26 -1.44	38.31 0.11 -1.38	40.12 0.19 -1.31	41.28 0.40 -1.09	42.81 0.62 -1.11	46.17 0.53 -1.33	50.96 0.62 -2.30	57.16 0.91 -2.55	65.09 1.21 -3.42	62.68 1.11 -3.21	52.14 0.84 -2.13	46.18 0.56 -2.16	39.51 0.27 -0.93	37.03 0.59 -1.68
OCC_CHEM___DRP 24175	33.13 -0.50 0.00	29.65 -0.15 0.00	29.38 -0.36 0.00	27.88 -0.54 0.00	28.59 -0.52 0.00	30.74 -0.56 0.00	39.35 -1.57 -0.75	42.21 -2.78 -0.92	39.33 -2.85 -0.91	36.75 -2.23 -1.19	36.61 -1.32 -1.16	35.99 -1.95 -1.11	37.89 -1.78 -1.06	39.63 -1.03 -0.88	41.61 -0.37 -0.89	44.05 -1.33 -1.07	48.79 -1.10 -1.85	55.37 -0.38 -2.05	63.39 0.18 -2.74	60.65 -0.29 -2.58	50.20 -0.69 -1.72	44.36 -0.83 -1.74	37.45 -1.61 -0.75	36.83 0.73 -1.35
OH_GEN_PROXY 24063	33.60 -0.03 0.00	29.89 0.09 0.00	29.56 -0.18 0.00	28.20 -0.23 0.00	28.68 -0.44 0.00	31.08 -0.22 0.00	39.58 -1.32 -0.74	42.82 -2.16 -0.91	39.90 -2.27 -0.90	37.15 -1.81 -1.18	37.04 -0.88 -1.15	36.67 -1.25 -1.10	38.50 -1.16 -1.05	40.54 -0.12 -0.87	41.72 -0.25 -0.88	44.58 -0.80 -1.06	49.11 -0.77 -1.83	55.78 0.05 -2.03	63.97 0.78 -2.71	61.09 0.18 -2.55	50.77 -0.10 -1.70	44.95 -0.22 -1.72	38.21 -0.84 -0.74	36.58 0.49 -1.34
OLIN_CORP_DRP 24177	33.77 0.13 0.00	30.15 0.36 0.00	29.89 0.15 0.00	28.37 -0.06 0.00	29.08 -0.03 0.00	31.33 0.03 0.00	39.31 -1.61 -0.75	42.44 -2.56 -0.92	39.55 -2.64 -0.92	36.91 -2.08 -1.20	36.77 -1.18 -1.17	36.14 -1.80 -1.12	38.06 -1.62 -1.07	39.80 -0.88 -0.88	41.78 -0.21 -0.90	44.24 -1.15 -1.08	48.95 -0.96 -1.87	55.55 -0.21 -2.06	63.66 0.42 -2.76	60.90 -0.06 -2.60	50.36 -0.54 -1.73	44.50 -0.70 -1.75	37.65 -1.42 -0.76	36.36 0.24 -1.36
OLIN_CORP_DSASP 323712	33.20 -0.44 0.00	29.65 -0.15 0.00	29.32 -0.42 0.00	28.40 -0.03 0.00	28.39 -0.73 0.00	30.77 -0.53 0.00	39.26 -1.65 -0.75	42.26 -2.73 -0.92	39.37 -2.81 -0.91	36.67 -2.31 -1.19	36.65 -1.29 -1.16	36.24 -1.69 -1.11	38.09 -1.58 -1.06	40.15 -0.52 -0.88	41.28 -0.70 -0.89	44.01 -1.37 -1.07	48.55 -1.34 -1.85	55.16 -0.59 -2.05	63.33 0.12 -2.74	60.47 -0.47 -2.58	50.20 -0.69 -1.72	44.49 -0.70 -1.74	37.76 -1.30 -0.75	36.87 0.76 -1.35
ONEIDA_HERK_LFGE 323681	44.64 0.81 -10.20	41.47 0.65 -11.02	32.34 0.47 -2.13	32.03 0.34 -3.26	32.60 0.38 -3.11	36.90 0.53 -5.07	50.48 0.76 -9.55	53.91 1.06 -8.78	51.12 0.82 -9.03	48.15 0.57 -9.79	39.35 0.44 -2.13	39.47 0.55 -2.09	41.83 0.77 -2.45	45.25 0.75 -4.70	47.78 0.74 -5.95	54.06 1.06 -8.68	57.67 1.25 -8.38	66.52 1.50 -11.32	72.71 1.99 -10.25	67.91 2.22 -7.33	58.98 1.67 -8.13	54.29 1.43 -9.40	49.21 1.11 -9.79	42.48 0.90 -6.82
ONEIDA___115KV_TB4 55905	39.12 0.87 -4.61	35.52 0.74 -4.98	31.42 0.71 -0.96	30.47 0.57 -1.47	31.19 0.67 -1.41	34.40 0.81 -2.29	46.07 1.12 -4.78	50.01 1.41 -4.53	47.06 1.16 -4.64	43.77 0.83 -5.15	39.15 0.70 -1.67	39.19 0.74 -1.62	41.25 0.89 -1.75	43.37 0.92 -2.66	45.22 0.90 -3.24	50.13 1.24 -4.58	54.40 1.44 -4.92	61.81 1.72 -6.39	68.98 2.18 -6.34	65.67 2.39 -4.92	55.74 1.82 -4.74	50.30 1.52 -5.33	44.35 1.15 -4.89	39.69 1.01 -3.92
ONONDAGA_REF_OCCRA 23987	35.57 -0.03 -1.97	31.89 -0.03 -2.13	30.12 -0.03 -0.41	28.97 -0.09 -0.63	29.65 -0.06 -0.60	32.25 -0.03 -0.98	43.20 -0.20 -3.24	47.28 -0.22 -3.43	44.47 -0.25 -3.45	41.57 -0.34 -4.12	39.16 -0.22 -2.61	39.03 -0.29 -2.50	40.85 -0.23 -2.47	42.23 -0.12 -2.55	43.87 -0.04 -2.83	48.00 0.00 -3.69	53.19 0.05 -5.10	59.89 0.21 -5.98	67.98 0.42 -7.09	64.99 0.41 -6.22	54.23 0.30 -4.77	48.55 0.04 -5.05	41.44 -0.15 -3.29	38.59 0.00 -3.83
ONONDAGA___COGEN 23986	35.52 0.07 -1.81	31.81 0.06 -1.96	30.18 0.06 -0.38	29.03 0.03 -0.58	29.72 0.06 -0.55	32.29 0.09 -0.90	43.62 0.00 -3.46	48.00 0.04 -3.88	45.11 0.00 -3.85	42.36 -0.11 -4.69	40.05 -0.04 -3.32	39.89 -0.11 -3.17	41.68 -0.04 -3.11	42.89 0.08 -3.02	44.52 0.16 -3.28	48.73 0.22 -4.20	54.45 0.29 -6.12	60.88 0.43 -6.75	69.42 0.67 -8.29	66.38 0.64 -7.38	55.15 0.49 -5.49	49.43 0.22 -5.77	41.82 0.00 -3.51	39.32 0.17 -4.40
ONTARIO___LFGE 23819	34.81 1.18 0.00	30.81 1.01 0.00	30.72 0.98 0.00	29.25 0.82 0.00	30.04 0.93 0.00	32.55 1.25 0.00	43.05 1.44 -1.44	47.33 1.45 -1.81	44.10 1.03 -1.80	40.78 0.64 -2.35	39.91 0.85 -2.29	39.68 0.66 -2.19	41.47 0.77 -2.09	42.83 1.31 -1.73	44.32 1.48 -1.76	48.20 1.77 -2.12	53.76 2.06 -3.65	60.56 2.90 -3.96	69.64 3.87 -5.30	67.08 3.74 -4.98	55.44 2.95 -3.31	48.81 2.00 -3.36	41.14 1.38 -1.45	38.96 1.60 -2.61
ORANGEVILLE_WT_PWR 323706	34.11 0.47 0.00	30.30 0.51 0.00	30.04 0.30 0.00	28.54 0.11 0.00	29.17 0.06 0.00	31.61 0.31 0.00	40.63 -0.36 -0.83	44.17 -0.93 -1.02	41.00 -1.28 -1.02	38.02 -1.10 -1.33	37.70 -0.37 -1.30	37.36 -0.70 -1.24	39.21 -0.58 -1.18	41.13 0.36 -0.98	42.40 0.33 -1.00	45.51 0.00 -1.20	50.25 0.14 -2.06	56.95 0.97 -2.28	65.58 2.06 -3.05	62.81 1.58 -2.87	52.16 1.08 -1.91	46.04 0.65 -1.93	39.18 0.04 -0.83	37.27 1.01 -1.50
ORANGEVILLE___ESR 323794	34.11 0.47 0.00	30.30 0.51 0.00	30.04 0.30 0.00	28.54 0.11 0.00	29.17 0.06 0.00	31.61 0.31 0.00	40.63 -0.36 -0.83	44.17 -0.93 -1.02	41.00 -1.28 -1.02	38.02 -1.10 -1.33	37.70 -0.37 -1.30	37.36 -0.70 -1.24	39.21 -0.58 -1.18	41.13 0.36 -0.98	42.40 0.33 -1.00	45.51 0.00 -1.20	50.25 0.14 -2.06	56.95 0.97 -2.28	65.58 2.06 -3.05	62.81 1.58 -2.87	52.16 1.08 -1.91	46.04 0.65 -1.93	39.18 0.04 -0.83	37.27 1.01 -1.50
OSWEGATCHIE___HYD 24044	84.50 0.54 -50.32	84.59 0.42 -54.38	40.48 0.24 -10.51	44.62 0.11 -16.09	44.61 0.15 -15.35	56.55 0.25 -25.00	86.12 0.36 -45.59	86.15 0.57 -41.50	84.38 0.37 -42.75	83.96 0.23 -45.94	45.10 0.11 -8.21	45.17 0.22 -8.12	48.98 0.39 -9.98	61.64 0.40 -21.45	69.05 0.37 -27.60	85.59 0.57 -40.71	86.44 0.72 -37.67	106.26 0.91 -51.65	106.68 1.27 -44.94	90.77 1.51 -30.89	86.93 1.13 -36.63	87.34 1.04 -42.85	85.88 0.81 -46.77	66.29 0.63 -30.91
OSWEGO___5 23606	33.17 -0.47 0.00	29.38 -0.42 0.00	29.32 -0.42 0.00	28.00 -0.43 0.00	28.68 -0.44 0.00	30.86 -0.44 0.00	44.74 -0.64 -5.22	49.62 -0.75 -6.30	46.80 -0.74 -6.28	45.23 -0.76 -8.20	44.11 -0.66 -8.00	43.76 -0.70 -7.63	45.20 -0.69 -7.28	45.26 -0.56 -6.02	46.65 -0.58 -6.14	51.07 -0.62 -7.38	60.11 -0.67 -12.73	67.43 -0.59 -14.32	79.10 -0.55 -19.18	75.85 -0.53 -18.02	60.67 -0.49 -11.99	55.03 -0.57 -12.14	42.98 -0.57 -5.24	43.78 -0.42 -9.44
OSWEGO___6 23613	33.17 -0.47 0.00	29.38 -0.42 0.00	29.32 -0.42 0.00	28.00 -0.43 0.00	28.68 -0.44 0.00	30.86 -0.44 0.00	44.74 -0.64 -5.22	49.62 -0.75 -6.30	46.80 -0.74 -6.28	45.23 -0.76 -8.20	44.11 -0.66 -8.00	43.76 -0.70 -7.63	45.20 -0.69 -7.28	45.26 -0.56 -6.02	46.65 -0.58 -6.14	51.07 -0.62 -7.38	60.11 -0.67 -12.73	67.43 -0.59 -14.32	79.10 -0.55 -19.18	75.85 -0.53 -18.02	60.67 -0.49 -11.99	55.03 -0.57 -12.14	42.98 -0.57 -5.24	43.78 -0.42 -9.44



OUTOKUMPU-AB___DRP 24206	33.97 0.34 0.00	30.33 0.54 0.00	30.10 0.36 0.00	28.51 0.09 0.00	29.23 0.12 0.00	31.49 0.19 0.00	40.16 -0.76 -0.76	43.37 -1.63 -0.93	40.37 -1.82 -0.92	37.63 -1.36 -1.21	37.51 -0.44 -1.18	36.92 -1.03 -1.12	38.83 -0.85 -1.07	40.64 -0.04 -0.89	42.69 0.70 -0.90	45.26 -0.13 -1.09	50.16 0.24 -1.87	56.90 1.13 -2.07	65.18 1.93 -2.78	62.37 1.40 -2.61	51.55 0.64 -1.73	45.51 0.30 -1.76	38.42 -0.65 -0.76	37.27 1.15 -1.37
OXBOW___BTM 323836	33.70 0.07 0.00	30.03 0.24 0.00	29.71 -0.03 0.00	28.57 0.14 0.00	28.76 -0.35 0.00	31.17 -0.12 0.00	39.75 -1.17 -0.75	42.88 -2.11 -0.92	39.96 -2.23 -0.92	37.21 -1.78 -1.20	37.14 -0.81 -1.17	36.80 -1.14 -1.12	38.64 -1.04 -1.07	40.75 0.08 -0.88	41.86 -0.12 -0.90	44.73 -0.66 -1.08	49.38 -0.53 -1.86	56.03 0.27 -2.06	64.37 1.15 -2.76	61.48 0.52 -2.59	51.00 0.10 -1.73	45.11 -0.09 -1.75	38.34 -0.73 -0.75	37.12 1.01 -1.36
OXBOW___ 24026	33.60 -0.03 0.00	30.04 0.24 0.00	29.77 0.03 0.00	28.23 -0.20 0.00	28.97 -0.15 0.00	31.14 -0.16 0.00	39.79 -1.12 -0.75	42.88 -2.12 -0.92	39.92 -2.27 -0.92	37.25 -1.74 -1.20	37.14 -0.81 -1.17	36.54 -1.40 -1.12	38.44 -1.24 -1.07	40.20 -0.48 -0.88	42.23 0.25 -0.90	44.73 -0.66 -1.08	49.57 -0.34 -1.86	56.24 0.48 -2.06	64.44 1.21 -2.76	61.65 0.70 -2.59	50.95 0.05 -1.73	45.02 -0.17 -1.75	38.03 -1.03 -0.75	37.12 1.01 -1.36
OXY_CHEM_DSASP 323612	33.13 -0.50 0.00	29.65 -0.15 0.00	29.38 -0.36 0.00	27.88 -0.54 0.00	28.59 -0.52 0.00	30.74 -0.56 0.00	39.35 -1.57 -0.75	42.21 -2.78 -0.92	39.33 -2.85 -0.91	36.75 -2.23 -1.19	36.61 -1.32 -1.16	35.99 -1.95 -1.11	37.89 -1.78 -1.06	39.63 -1.03 -0.88	41.61 -0.37 -0.89	44.05 -1.33 -1.07	48.79 -1.10 -1.85	55.37 -0.38 -2.05	63.39 0.18 -2.74	60.65 -0.29 -2.58	50.20 -0.69 -1.72	44.36 -0.83 -1.74	37.45 -1.61 -0.75	36.83 0.73 -1.35
OZONE_PARK_ESR 323760	35.94 1.88 -0.42	31.55 1.58 -0.18	31.36 1.46 -0.17	29.82 1.39 0.00	30.68 1.54 -0.03	33.13 1.66 -0.17	43.48 2.61 -0.70	48.18 3.09 -1.02	45.54 3.26 -1.02	42.76 3.21 -1.76	40.79 3.31 -0.71	41.15 3.54 -0.79	43.21 3.55 -1.04	44.16 3.42 -0.94	45.44 3.33 -1.03	48.85 3.37 -1.18	52.39 3.41 -0.93	57.37 3.38 -0.29	64.70 3.45 -0.78	62.27 3.27 -0.64	52.43 2.80 -0.46	47.04 2.65 -0.94	41.55 2.57 -0.67	37.22 2.09 -0.38
PACKARD_115_KV_ADAMS_187_REV_LBMP_A 345013	33.13 -0.50 0.00	29.65 -0.15 0.00	29.38 -0.36 0.00	27.88 -0.54 0.00	28.59 -0.52 0.00	30.74 -0.56 0.00	39.35 -1.57 -0.75	42.21 -2.78 -0.92	39.33 -2.85 -0.91	36.75 -2.23 -1.19	36.61 -1.32 -1.16	35.99 -1.95 -1.11	37.89 -1.78 -1.06	39.63 -1.03 -0.88	41.61 -0.37 -0.89	44.05 -1.33 -1.07	48.79 -1.10 -1.85	55.37 -0.38 -2.05	63.39 0.18 -2.74	60.65 -0.29 -2.58	50.20 -0.69 -1.72	44.36 -0.83 -1.74	37.45 -1.61 -0.75	36.83 0.73 -1.35
PACKARD___115KV_DUPONT_184 80571	33.13 -0.50 0.00	29.65 -0.15 0.00	29.38 -0.36 0.00	27.88 -0.54 0.00	28.59 -0.52 0.00	30.74 -0.56 0.00	39.35 -1.57 -0.75	42.21 -2.78 -0.92	39.33 -2.85 -0.91	36.75 -2.23 -1.19	36.61 -1.32 -1.16	35.99 -1.95 -1.11	37.89 -1.78 -1.06	39.63 -1.03 -0.88	41.61 -0.37 -0.89	44.05 -1.33 -1.07	48.79 -1.10 -1.85	55.37 -0.38 -2.05	63.39 0.18 -2.74	60.65 -0.29 -2.58	50.20 -0.69 -1.72	44.36 -0.83 -1.74	37.45 -1.61 -0.75	36.83 0.73 -1.35
PARKCHTR_138_KV_TB2S_REV_LBMP_J 345007	35.92 1.85 -0.43	31.53 1.55 -0.18	31.37 1.46 -0.17	29.76 1.34 0.00	30.65 1.51 -0.03	32.91 1.44 -0.17	42.99 2.13 -0.70	47.65 2.56 -1.02	45.05 2.76 -1.02	42.34 2.80 -1.76	40.39 2.91 -0.71	40.71 3.09 -0.79	42.78 3.13 -1.04	43.64 2.90 -0.94	44.90 2.79 -1.03	48.19 2.70 -1.18	51.62 2.64 -0.93	56.40 2.42 -0.29	63.55 2.30 -0.78	61.11 2.10 -0.64	51.55 1.92 -0.46	46.25 1.87 -0.94	41.09 2.11 -0.67	36.98 1.84 -0.38
PARKCHTR_13_KV_CPCTY_REV_LBMP_J 345019	36.22 2.15 -0.43	31.83 1.85 -0.18	31.64 1.72 -0.17	30.02 1.59 0.00	30.92 1.78 -0.03	33.16 1.69 -0.17	43.35 2.49 -0.70	48.00 2.91 -1.02	45.38 3.09 -1.02	42.61 3.06 -1.76	40.65 3.16 -0.71	41.00 3.39 -0.79	43.05 3.40 -1.04	43.96 3.22 -0.94	45.19 3.08 -1.03	48.54 3.06 -1.18	52.00 3.03 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.94 2.31 -0.46	46.60 2.22 -0.94	41.44 2.45 -0.67	37.29 2.15 -0.38
PATROON___115KV_TB1 80586	33.72 0.40 0.33	30.05 0.39 0.14	30.06 0.45 0.13	28.88 0.45 0.00	29.50 0.41 0.02	31.60 0.44 0.13	40.11 0.48 0.54	43.86 0.57 0.79	40.94 0.45 0.78	36.84 0.42 1.36	36.37 0.15 0.55	36.41 0.18 0.61	37.92 0.12 0.73	39.15 0.08 0.73	40.37 0.08 0.79	43.58 0.18 0.91	47.56 0.24 0.72	53.85 0.38 0.22	60.29 0.42 0.60	58.27 0.41 0.50	49.22 0.39 0.35	43.12 0.39 0.72	38.25 0.46 0.52	34.74 0.28 0.30
PATTRSNVILLE___SOLAR 323815	34.44 1.08 0.27	30.58 0.89 0.11	30.59 0.95 0.11	29.33 0.91 0.00	30.03 0.93 0.02	32.22 1.03 0.11	41.08 1.37 0.45	44.79 1.37 0.66	41.48 0.87 0.65	37.23 0.57 1.13	36.54 0.22 0.45	36.47 0.15 0.50	38.10 0.16 0.67	39.35 0.16 0.60	40.67 0.25 0.66	44.09 0.53 0.75	48.35 0.91 0.60	55.02 1.50 0.18	61.96 1.99 0.50	59.93 1.99 0.41	50.55 1.67 0.29	44.33 1.48 0.60	39.18 1.30 0.43	35.52 1.01 0.25
PAVMNTRD_115_KV_BK1_REV_LBMP_A 345030	33.91 0.27 0.00	30.24 0.45 0.00	29.98 0.24 0.00	28.34 -0.09 0.00	29.14 0.03 0.00	31.46 0.16 0.00	40.34 -0.60 -0.77	43.79 -1.23 -0.95	40.60 -1.61 -0.95	37.85 -1.17 -1.24	37.61 -0.37 -1.21	37.13 -0.85 -1.15	39.01 -0.69 -1.10	40.74 0.04 -0.91	42.83 0.82 -0.93	45.47 0.04 -1.11	50.39 0.43 -1.92	57.11 1.29 -2.12	65.37 2.06 -2.84	62.55 1.52 -2.67	51.64 0.69 -1.78	45.55 0.30 -1.80	38.51 -0.57 -0.78	36.95 0.80 -1.40
PAWLING_115_KV_BK3_REV_LBMP_H 345028	35.71 1.72 -0.36	31.44 1.49 -0.15	31.34 1.46 -0.14	29.82 1.39 0.00	30.59 1.46 -0.02	33.04 1.60 -0.15	43.09 2.33 -0.59	47.63 2.69 -0.87	44.98 2.85 -0.86	41.96 2.68 -1.49	40.10 2.72 -0.60	40.37 2.87 -0.67	42.55 3.05 -0.88	43.54 2.94 -0.80	44.83 2.88 -0.87	48.36 3.06 -1.00	51.77 2.93 -0.79	57.00 3.06 -0.24	64.22 3.08 -0.66	61.94 3.03 -0.55	52.12 2.56 -0.39	46.59 2.35 -0.79	41.14 2.26 -0.57	36.92 1.84 -0.33
PEEKSKILL___ 23653	35.44 1.38 -0.42	31.17 1.19 -0.18	30.98 1.07 -0.17	29.45 1.02 0.00	30.27 1.13 -0.03	32.73 1.25 -0.17	42.87 2.01 -0.70	47.47 2.38 -1.02	44.84 2.56 -1.01	42.07 2.53 -1.75	40.02 2.54 -0.71	40.30 2.69 -0.78	42.39 2.74 -1.04	43.36 2.63 -0.94	44.78 2.67 -1.02	48.23 2.75 -1.17	51.76 2.79 -0.93	56.72 2.74 -0.29	63.97 2.72 -0.78	61.63 2.63 -0.64	51.79 2.16 -0.46	46.43 2.04 -0.93	40.90 1.91 -0.67	36.63 1.49 -0.38
PGE MADISON___WINDPWR 24146	35.82 2.19 0.00	31.67 1.88 0.00	31.67 1.93 0.00	29.99 1.56 0.00	30.95 1.83 0.00	33.55 2.25 0.00	44.12 3.01 -0.94	48.84 3.61 -1.16	45.39 2.97 -1.15	41.33 2.04 -1.51	40.08 1.84 -1.47	40.00 1.77 -1.40	41.92 1.97 -1.34	42.97 2.07 -1.11	44.39 2.18 -1.13	48.68 3.01 -1.36	54.03 3.65 -2.34	60.96 4.67 -2.59	69.74 5.80 -3.46	67.86 6.24 -3.25	56.01 4.67 -2.16	49.47 3.82 -2.19	42.09 2.84 -0.95	39.10 2.64 -1.70



PIERCEFIELD___HYD 23852	108.08 0.24 -74.21	110.17 0.18 -80.20	45.35 0.12 -15.49	52.26 0.11 -23.72	51.87 0.12 -22.64	68.33 0.16 -36.87	107.21 0.32 -66.72	105.11 0.44 -60.59	104.07 0.37 -62.43	105.08 0.34 -66.95	48.33 0.22 -11.34	48.31 0.26 -11.23	52.89 0.27 -14.01	71.07 0.24 -31.04	81.43 0.25 -40.10	103.98 0.35 -59.32	102.84 0.48 -54.32	128.95 0.48 -74.77	125.47 0.60 -64.40	102.79 0.64 -43.79	102.50 0.49 -52.84	105.97 0.52 -62.00	107.15 0.38 -68.45	79.65 0.24 -44.66
PINELAWN_CC_1 323563	35.67 1.61 -0.42	31.22 1.25 -0.18	30.68 0.77 -0.17	29.14 0.71 0.00	30.07 0.93 -0.03	32.44 0.97 -0.17	42.71 1.85 -0.70	46.76 1.67 -1.01	44.64 2.35 -1.02	42.57 3.02 -1.76	40.68 3.20 -0.71	41.08 3.46 -0.80	42.59 2.93 -1.04	43.40 2.67 -0.94	44.53 2.42 -1.03	47.43 1.95 -1.18	50.99 2.02 -0.93	55.32 1.34 -0.28	62.40 1.15 -0.78	59.99 0.99 -0.64	50.66 1.03 -0.45	45.55 1.17 -0.93	41.51 2.53 -0.67	37.12 1.98 -0.38
PJM_GEN_HTP_PROXY 323702	35.61 1.55 -0.42	31.28 1.31 -0.18	31.07 1.16 -0.17	29.56 1.14 0.00	30.39 1.25 -0.03	32.85 1.38 -0.17	43.15 2.29 -0.70	47.78 2.69 -1.02	45.21 2.93 -1.02	42.46 2.91 -1.76	40.43 2.94 -0.71	40.74 3.13 -0.79	42.78 3.13 -1.04	43.72 2.99 -0.94	45.15 3.04 -1.03	48.59 3.10 -1.18	52.15 3.17 -0.93	57.10 3.11 -0.29	64.27 3.02 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.69 2.30 -0.94	41.21 2.22 -0.67	36.84 1.70 -0.38
PJM_GEN_KEystone 24065	34.37 0.54 -0.20	30.42 0.54 -0.08	30.18 0.36 -0.08	29.33 0.23 -0.67	28.61 0.29 0.80	31.25 0.47 0.52	40.22 0.44 0.38	43.90 0.27 0.43	41.13 0.12 0.26	38.54 0.30 -0.45	37.59 0.70 -0.12	37.56 0.63 -0.11	39.38 0.70 -0.07	40.67 1.03 0.15	41.97 1.11 0.22	44.98 0.93 0.26	49.00 0.91 -0.05	54.87 1.24 0.07	62.02 1.45 -0.10	59.02 1.17 0.51	49.58 0.84 0.43	44.32 0.69 -0.18	38.69 0.58 0.20	35.86 0.83 -0.27
PJM_GEN_NEPTUNE_PROXY 323594	35.37 1.31 -0.42	30.99 1.01 -0.18	30.50 0.59 -0.17	28.99 0.57 0.00	29.87 0.73 -0.03	32.26 0.78 -0.17	42.39 1.53 -0.70	46.54 1.45 -1.01	44.31 2.02 -1.02	42.19 2.64 -1.76	40.28 2.79 -0.71	40.68 3.05 -0.79	42.20 2.55 -1.04	43.00 2.27 -0.94	44.16 2.05 -1.03	47.43 1.95 -1.18	50.99 2.02 -0.93	55.64 1.67 -0.28	62.76 1.51 -0.78	60.40 1.40 -0.64	50.75 1.13 -0.45	45.55 1.17 -0.93	41.09 2.11 -0.67	36.77 1.63 -0.38
PJM_GEN_VFT_PROXY 323633	35.44 1.38 -0.42	31.13 1.16 -0.18	30.92 1.01 -0.17	19.77 0.99 9.65	18.69 1.11 11.53	24.12 1.22 8.40	26.37 2.13 15.92	26.67 2.77 19.91	26.67 2.77 17.36	26.67 2.76 13.87	27.26 2.83 12.35	27.26 2.98 12.55	27.51 2.97 14.07	27.51 2.83 15.11	27.26 2.87 16.70	27.51 2.88 19.68	30.30 2.93 20.67	36.17 2.79 20.32	36.45 2.72 26.74	27.76 2.63 33.23	27.76 2.16 23.58	27.76 2.13 17.82	27.26 2.07 13.12	26.32 1.57 10.00
PLATSBURG_115KV_PMLD1 355749	40.53 1.24 -5.65	37.06 1.16 -6.10	32.08 1.16 -1.18	31.40 1.17 -1.81	32.06 1.22 -1.72	35.42 1.31 -2.81	47.07 1.85 -5.05	50.68 2.03 -4.58	48.05 2.06 -4.72	44.89 2.04 -5.06	39.51 1.91 -0.83	39.53 1.88 -0.82	41.54 1.89 -1.04	44.08 1.95 -2.34	46.20 2.10 -3.03	51.01 2.22 -4.48	54.57 2.45 -4.08	62.01 2.68 -5.63	68.25 2.96 -4.82	64.24 2.63 -3.25	55.36 2.21 -3.97	50.12 2.00 -4.67	45.11 1.61 -5.19	39.43 1.32 -3.36
PLEASANTVLY___LBMP 24000	35.28 1.18 -0.47	31.03 1.04 -0.20	30.88 0.95 -0.18	29.33 0.91 0.00	30.13 0.99 -0.03	32.59 1.10 -0.19	42.59 1.65 -0.77	47.10 1.90 -1.13	44.42 2.02 -1.13	41.78 2.04 -1.95	39.62 2.06 -0.79	39.91 2.21 -0.87	42.01 2.24 -1.16	42.91 2.07 -1.04	44.23 2.01 -1.14	47.65 2.04 -1.30	51.05 1.97 -1.04	55.89 1.88 -0.32	63.21 1.87 -0.87	60.82 1.75 -0.71	51.20 1.52 -0.51	45.96 1.48 -1.04	40.63 1.57 -0.74	36.43 1.25 -0.43
PLSNTVLE_13_KV_13.8KVDIST 80602	35.51 1.45 -0.42	31.23 1.25 -0.18	31.07 1.16 -0.17	29.53 1.11 0.00	30.36 1.22 -0.03	32.79 1.31 -0.17	42.88 2.01 -0.70	47.52 2.42 -1.03	44.85 2.56 -1.02	42.16 2.61 -1.77	40.13 2.65 -0.71	40.45 2.84 -0.79	42.52 2.86 -1.05	43.45 2.71 -0.95	44.75 2.63 -1.03	48.15 2.66 -1.18	51.62 2.64 -0.94	56.51 2.52 -0.29	63.80 2.54 -0.79	61.46 2.45 -0.65	51.70 2.07 -0.46	46.35 1.96 -0.94	40.98 1.99 -0.68	36.70 1.56 -0.39
PLSNTVLE_13_KV_13.8KVDISA_REV_LBMP_I 345020	35.51 1.45 -0.42	31.23 1.25 -0.18	31.07 1.16 -0.17	29.53 1.11 0.00	30.36 1.22 -0.03	32.79 1.31 -0.17	42.88 2.01 -0.70	47.52 2.42 -1.03	44.85 2.56 -1.02	42.16 2.61 -1.77	40.13 2.65 -0.71	40.45 2.84 -0.79	42.52 2.86 -1.05	43.45 2.71 -0.95	44.75 2.63 -1.03	48.15 2.66 -1.18	51.62 2.64 -0.94	56.51 2.52 -0.29	63.80 2.54 -0.79	61.46 2.45 -0.65	51.70 2.07 -0.46	46.35 1.96 -0.94	40.98 1.99 -0.68	36.70 1.56 -0.39
PLSTVYCH_69_KV_RQ-3_RG2_REV_LBMP_G 345023	35.02 1.55 0.16	31.10 1.37 0.07	30.96 1.28 0.06	29.70 1.28 0.00	30.41 1.31 0.01	32.64 1.41 0.07	41.99 2.09 0.27	46.06 2.38 0.39	43.23 2.35 0.39	39.38 2.27 0.68	38.82 2.32 0.27	38.96 2.43 0.30	40.72 2.51 0.40	41.78 2.35 0.36	42.99 2.30 0.39	46.29 2.44 0.45	50.04 2.35 0.36	56.00 2.42 0.11	62.65 2.48 0.30	60.56 2.45 0.25	51.06 2.07 0.18	45.00 1.91 0.36	40.01 1.95 0.26	36.21 1.60 0.15
POLETTI_____ 23519	27.64 1.45 7.44	27.61 1.16 3.35	27.67 1.07 3.14	27.67 0.99 1.75	27.67 1.16 2.61	27.64 1.00 4.66	27.53 1.61 14.24	29.73 1.98 16.32	27.50 2.27 16.04	27.54 2.34 12.59	28.63 2.46 10.61	28.67 2.69 10.85	28.63 2.63 12.60	28.67 2.43 13.55	28.50 2.26 14.84	28.99 2.13 17.45	28.40 2.02 21.66	37.36 1.66 18.00	44.72 1.51 17.26	42.26 1.34 17.44	32.53 1.23 17.87	30.39 1.30 14.36	28.62 1.65 11.34	28.69 1.42 7.49
POMONA___ESR 323819	35.37 1.35 -0.38	31.15 1.19 -0.16	30.96 1.07 -0.15	29.42 0.99 0.00	30.24 1.11 -0.03	32.68 1.22 -0.16	42.77 1.97 -0.64	47.34 2.33 -0.93	44.58 2.39 -0.93	41.73 2.34 -1.60	39.81 2.39 -0.64	40.08 2.54 -0.71	42.15 2.59 -0.95	43.08 2.43 -0.86	44.52 2.51 -0.93	47.99 2.61 -1.07	51.49 2.59 -0.85	56.54 2.58 -0.26	63.72 2.54 -0.71	61.40 2.45 -0.59	51.61 2.02 -0.41	46.21 1.91 -0.85	40.88 1.95 -0.61	36.63 1.53 -0.35
PORT_JEFF_3 23555	35.47 1.41 -0.42	31.04 1.07 -0.18	30.44 0.54 -0.17	28.94 0.51 0.00	29.84 0.70 -0.03	32.19 0.72 -0.17	42.35 1.49 -0.70	46.32 1.23 -1.01	44.31 2.02 -1.02	42.30 2.76 -1.76	40.46 2.98 -0.71	40.90 3.28 -0.79	42.36 2.70 -1.04	43.16 2.43 -0.94	44.21 2.09 -1.03	47.52 2.04 -1.18	51.18 2.21 -0.93	55.64 1.67 -0.28	62.52 1.27 -0.78	60.05 1.05 -0.64	50.75 1.13 -0.45	45.64 1.26 -0.93	41.40 2.42 -0.67	37.01 1.88 -0.38
PORT_JEFF_4 23616	35.47 1.41 -0.42	31.04 1.07 -0.18	30.44 0.54 -0.17	28.94 0.51 0.00	29.84 0.70 -0.03	32.19 0.72 -0.17	42.35 1.49 -0.70	46.32 1.23 -1.01	44.31 2.02 -1.02	42.30 2.76 -1.76	40.46 2.98 -0.71	40.90 3.28 -0.79	42.36 2.70 -1.04	43.16 2.43 -0.94	44.21 2.09 -1.03	47.52 2.04 -1.18	51.18 2.21 -0.93	55.64 1.67 -0.28	62.52 1.27 -0.78	60.05 1.05 -0.64	50.75 1.13 -0.45	45.64 1.26 -0.93	41.40 2.42 -0.67	37.01 1.88 -0.38



PORT_JEFF_IC 23713	35.61 1.55 -0.42	31.17 1.19 -0.18	30.62 0.71 -0.17	29.08 0.65 0.00	30.01 0.87 -0.03	32.35 0.88 -0.17	42.39 1.53 -0.70	46.36 1.28 -1.01	44.39 2.10 -1.02	42.31 2.76 -1.76	40.68 3.20 -0.71	41.01 3.39 -0.79	42.98 3.32 -1.04	43.48 2.75 -0.94	44.17 2.05 -1.03	47.39 1.91 -1.18	50.70 1.73 -0.93	55.43 1.45 -0.28	62.46 1.21 -0.78	59.99 0.99 -0.64	50.61 0.98 -0.45	45.55 1.17 -0.93	41.51 2.53 -0.67	37.05 1.91 -0.38
PPL PILGRIM_ST_GT1 24216	35.98 1.92 -0.42	31.49 1.52 -0.18	30.92 1.01 -0.17	29.36 0.94 0.00	30.31 1.17 -0.03	32.73 1.25 -0.17	43.11 2.25 -0.70	47.16 2.07 -1.01	45.09 2.81 -1.02	42.99 3.44 -1.76	41.16 3.68 -0.71	41.60 3.98 -0.80	43.05 3.40 -1.04	43.88 3.14 -0.94	44.94 2.83 -1.03	48.28 2.79 -1.18	51.95 2.98 -0.93	56.61 2.63 -0.28	63.85 2.60 -0.78	61.39 2.39 -0.64	51.59 1.97 -0.45	46.29 1.91 -0.93	41.93 2.95 -0.67	37.50 2.36 -0.38
PPL PILGRIM_ST_GT2 24217	35.98 1.92 -0.42	31.49 1.52 -0.18	30.92 1.01 -0.17	29.36 0.94 0.00	30.31 1.17 -0.03	32.73 1.25 -0.17	43.11 2.25 -0.70	47.16 2.07 -1.01	45.09 2.81 -1.02	42.99 3.44 -1.76	41.16 3.68 -0.71	41.60 3.98 -0.80	43.05 3.40 -1.04	43.88 3.14 -0.94	44.94 2.83 -1.03	48.28 2.79 -1.18	51.95 2.98 -0.93	56.61 2.63 -0.28	63.85 2.60 -0.78	61.39 2.39 -0.64	51.59 1.97 -0.45	46.29 1.91 -0.93	41.93 2.95 -0.67	37.50 2.36 -0.38
PPL_SHRM_GT3 24213	35.04 0.98 -0.42	30.66 0.69 -0.18	30.06 0.15 -0.17	28.57 0.14 0.00	29.46 0.32 -0.03	31.79 0.31 -0.17	41.83 0.96 -0.70	45.79 0.70 -1.01	43.81 1.53 -1.02	41.81 2.27 -1.76	39.98 2.50 -0.71	40.46 2.84 -0.79	41.85 2.20 -1.04	42.65 1.91 -0.94	43.71 1.60 -1.03	46.99 1.51 -1.18	50.65 1.68 -0.93	55.05 1.07 -0.28	62.04 0.78 -0.78	59.58 0.58 -0.64	50.21 0.59 -0.45	45.20 0.82 -0.93	41.01 2.03 -0.67	36.60 1.46 -0.38
PPL_SHRM_GT4 24214	35.04 0.98 -0.42	30.66 0.69 -0.18	30.06 0.15 -0.17	28.57 0.14 0.00	29.46 0.32 -0.03	31.79 0.31 -0.17	41.83 0.96 -0.70	45.79 0.70 -1.01	43.81 1.53 -1.02	41.81 2.27 -1.76	39.98 2.50 -0.71	40.46 2.84 -0.79	41.85 2.20 -1.04	42.65 1.91 -0.94	43.71 1.60 -1.03	46.99 1.51 -1.18	50.65 1.68 -0.93	55.05 1.07 -0.28	62.04 0.78 -0.78	59.58 0.58 -0.64	50.21 0.59 -0.45	45.20 0.82 -0.93	41.01 2.03 -0.67	36.60 1.46 -0.38
PROJECT___ORANGE 1 24174	35.79 -0.03 -2.19	32.13 -0.03 -2.36	30.17 -0.03 -0.46	29.07 -0.06 -0.70	29.75 -0.03 -0.67	32.35 -0.03 -1.09	43.24 -0.20 -3.28	47.17 -0.26 -3.36	44.43 -0.25 -3.41	41.47 -0.34 -4.03	38.89 -0.22 -2.33	38.77 -0.29 -2.24	40.61 -0.23 -2.23	42.14 -0.08 -2.42	43.76 -0.04 -2.72	47.91 0.00 -3.60	52.83 0.00 -4.79	59.72 0.21 -5.81	67.55 0.36 -6.72	64.53 0.35 -5.82	53.99 0.25 -4.57	48.33 0.00 -4.88	41.45 -0.19 -3.33	38.44 0.00 -3.69
PROJECT___ORANGE 2 24166	35.79 -0.03 -2.19	32.13 -0.03 -2.36	30.17 -0.03 -0.46	29.07 -0.06 -0.70	29.75 -0.03 -0.67	32.35 -0.03 -1.09	43.24 -0.20 -3.28	47.17 -0.26 -3.36	44.43 -0.25 -3.41	41.47 -0.34 -4.03	38.89 -0.22 -2.33	38.77 -0.29 -2.24	40.61 -0.23 -2.23	42.14 -0.08 -2.42	43.76 -0.04 -2.72	47.91 0.00 -3.60	52.83 0.00 -4.79	59.72 0.21 -5.81	67.55 0.36 -6.72	64.53 0.35 -5.82	53.99 0.25 -4.57	48.33 0.00 -4.88	41.45 -0.19 -3.33	38.44 0.00 -3.69
PUCKETT___SOLAR 323809	34.51 0.87 0.00	30.54 0.75 0.00	30.51 0.77 0.00	29.05 0.62 0.00	29.81 0.70 0.00	32.17 0.88 0.00	42.11 1.04 -0.90	46.27 1.10 -1.10	43.14 0.78 -1.09	39.67 0.46 -1.43	38.68 0.51 -1.39	38.60 0.44 -1.33	40.38 0.50 -1.27	41.60 0.75 -1.05	42.93 0.78 -1.07	46.62 1.02 -1.29	51.51 1.25 -2.22	57.88 1.72 -2.47	66.07 2.30 -3.30	63.80 2.34 -3.10	53.06 1.82 -2.06	46.97 1.43 -2.09	40.25 1.03 -0.90	37.46 1.08 -1.63
PYRITES___HYD 24023	112.81 0.54 -78.63	115.22 0.45 -84.98	46.54 0.39 -16.42	53.90 0.34 -25.14	53.48 0.38 -23.99	70.84 0.47 -39.07	111.59 0.76 -70.66	109.20 0.97 -64.16	108.16 0.78 -66.11	109.24 0.57 -70.88	49.13 0.40 -11.95	49.11 0.44 -11.84	53.86 0.46 -14.79	73.08 0.44 -32.85	83.98 0.45 -42.45	107.77 0.66 -62.80	106.37 0.86 -57.46	133.78 0.97 -79.12	129.83 1.27 -68.09	106.08 1.46 -46.26	106.15 1.08 -55.90	110.10 1.04 -65.61	111.61 0.80 -72.49	82.56 0.56 -47.25
QUAKERRD_115KV_BK1 80622	33.10 -0.54 0.00	29.41 -0.39 0.00	29.24 -0.51 0.00	27.86 -0.57 0.00	28.56 -0.55 0.00	30.80 -0.50 0.00	39.97 -0.92 -0.72	43.64 -1.32 -0.89	40.83 -1.32 -0.89	37.66 -1.28 -1.16	37.02 -0.88 -1.13	36.80 -1.10 -1.08	38.64 -1.00 -1.03	40.05 -0.60 -0.85	41.54 -0.41 -0.87	44.69 -0.66 -1.05	49.37 -0.48 -1.80	55.63 -0.05 -1.99	63.43 0.30 -2.66	60.92 0.06 -2.50	50.74 -0.10 -1.66	44.79 -0.35 -1.68	38.23 -0.80 -0.73	35.85 -0.21 -1.31
QUENSBRY_115KV_TB8 356137	34.73 1.51 0.42	30.84 1.22 0.18	30.97 1.40 0.17	29.68 1.25 0.00	30.34 1.25 0.03	32.60 1.47 0.17	41.15 1.69 0.70	44.76 1.72 1.03	40.69 0.45 1.03	36.28 0.26 1.77	35.65 -0.40 0.71	35.52 -0.52 0.79	37.02 -0.54 1.05	38.44 -0.40 0.95	39.64 -0.41 1.04	43.21 0.09 1.18	47.87 0.77 0.94	55.45 2.04 0.29	62.52 2.84 0.79	60.51 2.80 0.65	50.98 2.26 0.46	44.33 1.82 0.94	39.40 1.76 0.68	35.65 1.29 0.39
RAMAPO___LBMP 323565	35.22 1.21 -0.37	31.03 1.07 -0.16	30.87 0.98 -0.15	29.33 0.91 0.00	30.16 1.02 -0.03	32.58 1.13 -0.15	42.51 1.73 -0.62	47.00 2.03 -0.90	44.23 2.06 -0.90	41.42 2.08 -1.56	39.53 2.13 -0.63	39.81 2.28 -0.70	41.85 2.32 -0.92	42.78 2.15 -0.83	44.13 2.14 -0.91	47.52 2.17 -1.04	50.98 2.11 -0.83	55.99 2.04 -0.25	63.16 2.00 -0.69	60.80 1.87 -0.57	51.15 1.57 -0.40	45.80 1.52 -0.83	40.63 1.72 -0.60	36.48 1.39 -0.34
RANKINE____ 23646	34.11 0.47 0.00	30.39 0.60 0.00	30.13 0.39 0.00	28.54 0.11 0.00	29.32 0.20 0.00	31.61 0.31 0.00	40.41 -0.52 -0.77	43.83 -1.19 -0.95	40.72 -1.49 -0.94	38.00 -1.02 -1.23	37.79 -0.18 -1.20	37.24 -0.74 -1.15	39.16 -0.54 -1.09	40.90 0.20 -0.90	42.95 0.94 -0.92	45.59 0.18 -1.11	50.53 0.58 -1.91	57.31 1.50 -2.11	65.66 2.36 -2.83	62.83 1.81 -2.66	51.93 0.98 -1.77	45.81 0.56 -1.79	38.70 -0.38 -0.77	37.19 1.04 -1.39
RAVENSWOOD_GT2_1 24244	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.88 1.41 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.36 2.88 -1.18	51.86 2.88 -0.93	56.72 2.74 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT2_2 24245	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.88 1.41 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.36 2.88 -1.18	51.86 2.88 -0.93	56.72 2.74 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38



RAVENSWOOD_GT2_3 24246	35.67 1.61 -0.42	31.34 1.37 -0.18	31.19 1.28 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.17 2.89 -1.02	42.42 2.87 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.86 3.20 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.91 2.93 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.89 2.26 -0.46	46.56 2.17 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
RAVENSWOOD_GT2_4 24247	35.67 1.61 -0.42	31.34 1.37 -0.18	31.19 1.28 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.17 2.89 -1.02	42.42 2.87 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.86 3.20 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.91 2.93 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.89 2.26 -0.46	46.56 2.17 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
RAVENSWOOD_GT3_1 24248	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.78 3.17 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT3_2 24249	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.78 3.17 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT3_3 24250	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.15 2.29 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.46 2.91 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.90 3.24 -1.04	43.80 3.06 -0.94	45.11 3.00 -1.03	48.45 2.97 -1.18	51.96 2.98 -0.93	56.83 2.85 -0.29	64.09 2.84 -0.78	61.69 2.68 -0.64	51.94 2.31 -0.46	46.60 2.22 -0.94	41.24 2.26 -0.67	36.95 1.81 -0.38
RAVENSWOOD_GT3_4 24251	35.71 1.65 -0.42	31.37 1.40 -0.18	31.19 1.28 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.94 1.47 -0.17	43.15 2.29 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.46 2.91 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.90 3.24 -1.04	43.80 3.06 -0.94	45.11 3.00 -1.03	48.45 2.97 -1.18	51.96 2.98 -0.93	56.83 2.85 -0.29	64.09 2.84 -0.78	61.69 2.68 -0.64	51.94 2.31 -0.46	46.60 2.22 -0.94	41.24 2.26 -0.67	36.95 1.81 -0.38
RAVENSWOOD_GT_1 23729	35.85 1.78 -0.43	31.50 1.52 -0.19	31.31 1.40 -0.18	29.70 1.28 0.00	30.60 1.46 -0.03	32.98 1.50 -0.17	43.19 2.33 -0.70	47.87 2.78 -1.02	45.30 3.01 -1.02	42.53 2.99 -1.76	40.57 3.09 -0.71	40.93 3.31 -0.79	42.98 3.32 -1.04	43.88 3.14 -0.94	45.15 3.04 -1.03	48.50 3.01 -1.18	51.91 2.93 -0.93	56.72 2.74 -0.29	63.91 2.66 -0.78	61.51 2.51 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.24 2.26 -0.67	36.98 1.84 -0.38
RAVENSWOOD_GT_10 24258	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.45 1.31 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT_11 24259	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.45 1.31 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT_4 24252	35.63 1.58 -0.42	31.31 1.34 -0.17	31.12 1.22 -0.16	29.59 1.17 0.00	30.45 1.31 -0.03	32.88 1.41 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.72 2.98 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.89 2.26 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT_5 24254	35.63 1.58 -0.42	31.31 1.34 -0.17	31.12 1.22 -0.16	29.59 1.17 0.00	30.45 1.31 -0.03	32.88 1.41 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.72 2.98 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.89 2.26 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT_6 24253	35.63 1.58 -0.42	31.31 1.34 -0.17	31.12 1.22 -0.16	29.59 1.17 0.00	30.45 1.31 -0.03	32.88 1.41 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.72 2.98 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.89 2.26 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT_7 24255	35.63 1.58 -0.42	31.31 1.34 -0.17	31.12 1.22 -0.16	29.59 1.17 0.00	30.45 1.31 -0.03	32.88 1.41 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.38 2.83 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.72 2.98 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.89 2.26 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT_8 TEMP GRP(8-11) 24256	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.45 1.31 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38
RAVENSWOOD_GT_9 24257	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.45 1.31 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.74 2.64 -1.02	45.13 2.85 -1.02	42.42 2.87 -1.76	40.42 2.94 -0.71	40.74 3.13 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.03 2.92 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.84 2.21 -0.46	46.56 2.17 -0.94	41.17 2.18 -0.67	36.88 1.74 -0.38



RAVENSWOOD___1 23533	35.78 1.71 -0.43	31.47 1.49 -0.18	31.26 1.34 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.92 2.82 -1.02	45.34 3.05 -1.02	42.57 3.02 -1.76	40.57 3.09 -0.71	40.93 3.32 -0.79	42.93 3.28 -1.04	43.88 3.14 -0.94	45.27 3.16 -1.03	48.63 3.15 -1.18	52.25 3.27 -0.93	57.10 3.11 -0.29	64.27 3.02 -0.78	61.86 2.86 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.28 2.30 -0.67	36.94 1.81 -0.38
RAVENSWOOD___2 23534	35.78 1.71 -0.43	31.44 1.46 -0.18	31.26 1.34 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.92 2.82 -1.02	45.34 3.05 -1.02	42.57 3.02 -1.76	40.57 3.09 -0.71	40.89 3.28 -0.79	42.93 3.28 -1.04	43.84 3.11 -0.94	45.27 3.16 -1.03	48.63 3.15 -1.18	52.25 3.27 -0.93	57.10 3.11 -0.29	64.27 3.02 -0.78	61.81 2.80 -0.64	51.99 2.36 -0.46	46.69 2.30 -0.94	41.24 2.26 -0.67	36.94 1.81 -0.38
RAVENSWOOD___3 23535	35.64 1.58 -0.42	31.32 1.34 -0.18	31.13 1.22 -0.17	29.59 1.17 0.00	30.42 1.28 -0.03	32.88 1.41 -0.17	43.19 2.33 -0.70	47.83 2.73 -1.02	45.26 2.97 -1.02	42.50 2.95 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.82 3.17 -1.04	43.76 3.02 -0.94	45.19 3.08 -1.03	48.59 3.10 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.33 3.08 -0.78	61.92 2.92 -0.64	52.04 2.41 -0.46	46.73 2.34 -0.94	41.24 2.26 -0.67	36.88 1.74 -0.38
RAVENSWOOD___4 23820	35.78 1.71 -0.43	31.44 1.46 -0.18	31.22 1.31 -0.17	29.65 1.22 0.00	30.51 1.37 -0.03	32.91 1.44 -0.17	43.23 2.37 -0.70	47.87 2.78 -1.02	45.34 3.05 -1.02	42.57 3.02 -1.76	40.57 3.09 -0.71	40.89 3.28 -0.79	42.93 3.28 -1.04	43.84 3.11 -0.94	45.23 3.12 -1.03	48.63 3.15 -1.18	52.20 3.22 -0.93	57.10 3.11 -0.29	64.21 2.96 -0.78	61.81 2.80 -0.64	51.99 2.36 -0.46	46.64 2.26 -0.94	41.24 2.26 -0.67	36.91 1.77 -0.38
RCPL_TRUST___DRP 24196	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.15 2.29 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.46 2.91 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.90 3.24 -1.04	43.80 3.06 -0.94	45.11 3.00 -1.03	48.50 3.01 -1.18	51.96 2.98 -0.93	56.88 2.90 -0.29	64.15 2.90 -0.78	61.75 2.74 -0.64	51.94 2.31 -0.46	46.60 2.22 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
RED___ROCHESTER 323720	34.24 0.61 0.00	30.39 0.60 0.00	30.13 0.39 0.00	28.85 0.43 0.00	29.37 0.26 0.00	31.83 0.53 0.00	41.13 0.24 -0.72	44.91 -0.04 -0.88	41.98 -0.16 -0.88	38.67 -0.26 -1.15	38.15 0.26 -1.12	37.97 0.07 -1.07	39.90 0.27 -1.02	41.63 1.00 -0.84	42.85 0.90 -0.86	46.18 0.84 -1.03	50.93 1.11 -1.79	57.49 1.83 -1.97	65.70 2.60 -2.63	62.93 2.10 -2.48	52.64 1.82 -1.65	46.38 1.26 -1.67	39.64 0.61 -0.72	37.09 1.04 -1.30
REGAN___SOLAR 323812	35.41 2.02 0.25	31.39 1.70 0.10	31.40 1.75 0.10	30.10 1.68 0.00	30.81 1.72 0.02	33.17 1.97 0.10	42.29 2.53 0.41	45.94 2.47 0.60	41.82 1.15 0.60	37.13 0.38 1.04	35.92 -0.44 0.42	35.63 -0.74 0.46	37.22 -0.77 0.61	38.56 -0.68 0.55	40.03 -0.45 0.60	43.89 0.27 0.69	48.74 1.25 0.55	56.43 2.90 0.17	64.30 4.29 0.46	62.30 4.32 0.38	52.45 3.54 0.27	45.90 3.00 0.55	40.48 2.57 0.40	36.54 2.01 0.23
RENSSELAER___COGEN 23796	33.59 0.27 0.32	29.96 0.30 0.13	29.85 0.24 0.13	28.74 0.31 0.00	29.38 0.29 0.02	31.48 0.31 0.13	40.00 0.36 0.52	43.84 0.53 0.77	40.96 0.45 0.76	36.84 0.38 1.32	36.39 0.15 0.53	36.39 0.15 0.59	37.94 0.12 0.78	38.97 -0.12 0.71	40.23 -0.08 0.77	43.38 -0.04 0.88	47.34 0.00 0.70	53.48 0.00 0.21	59.82 -0.06 0.59	57.82 -0.06 0.48	48.78 -0.05 0.34	42.79 0.04 0.70	37.92 0.12 0.50	34.61 0.14 0.29
REPUBLIC_115KV_BARTNBK 55605	36.14 2.93 0.43	32.03 2.41 0.18	32.28 2.71 0.17	30.87 2.44 0.00	31.53 2.45 0.03	33.97 2.85 0.18	42.83 3.37 0.71	46.47 3.44 1.04	41.68 1.44 1.03	37.02 1.02 1.79	36.16 0.11 0.72	35.99 -0.04 0.80	37.59 0.04 1.06	39.19 0.36 0.96	40.49 0.45 1.04	44.36 1.24 1.19	49.45 2.35 0.95	58.03 4.62 0.29	65.72 6.05 0.80	63.60 5.89 0.65	53.53 4.82 0.46	46.41 3.91 0.95	41.12 3.49 0.68	37.08 2.71 0.39
REVERE_CPPR_DRP 24186	41.39 1.11 -6.65	37.90 0.92 -7.18	31.96 0.83 -1.39	31.20 0.65 -2.12	31.90 0.76 -2.03	35.57 0.97 -3.30	48.03 1.33 -6.54	51.85 1.67 -6.10	48.93 1.40 -6.26	45.64 0.98 -6.87	39.49 0.85 -1.87	39.57 0.92 -1.82	41.72 1.08 -2.03	44.33 1.11 -3.42	46.40 1.07 -4.25	51.96 1.55 -6.10	56.09 1.83 -6.22	64.08 2.15 -8.23	71.01 2.72 -7.82	67.25 3.03 -5.85	57.45 2.26 -6.02	52.22 1.91 -6.86	46.46 1.46 -6.69	41.02 1.25 -5.01
REYNLDPA_13_KV_LD 356490	22.32 0.00 11.32	17.57 0.00 12.23	27.38 0.00 2.36	24.84 0.03 3.62	25.69 0.03 3.45	25.68 0.00 5.62	30.00 -0.04 10.13	34.80 -0.09 9.19	31.80 0.00 9.47	27.72 0.08 10.14	35.15 0.04 1.66	35.22 0.04 1.65	36.50 -0.04 2.07	35.07 -0.04 4.68	34.98 -0.04 6.06	35.24 -0.09 8.98	39.77 -0.10 8.17	42.26 -0.16 11.28	50.51 -0.30 9.66	51.55 -0.29 6.52	41.02 -0.20 7.95	34.01 -0.09 9.35	27.88 -0.04 10.39	27.99 -0.03 6.73
REYNOLDS_115KV_TB3 80639	33.76 0.50 0.38	30.11 0.48 0.16	30.10 0.51 0.15	28.94 0.51 0.00	29.58 0.49 0.03	31.67 0.53 0.16	40.22 0.68 0.63	43.94 0.79 0.92	41.05 0.70 0.92	36.84 0.64 1.59	36.54 0.40 0.64	36.56 0.44 0.71	38.05 0.39 0.94	39.26 0.32 0.85	40.48 0.33 0.93	43.60 0.35 1.06	47.63 0.43 0.84	53.92 0.48 0.26	60.24 0.48 0.71	58.25 0.47 0.58	49.20 0.44 0.41	43.08 0.48 0.84	38.24 0.54 0.61	34.79 0.38 0.35
RIVERBAY____ 323610	36.22 2.15 -0.43	31.83 1.85 -0.18	31.64 1.72 -0.17	30.02 1.59 0.00	30.92 1.78 -0.03	33.16 1.69 -0.17	43.35 2.49 -0.70	48.00 2.91 -1.02	45.38 3.09 -1.02	42.61 3.06 -1.76	40.65 3.16 -0.71	41.00 3.39 -0.79	43.05 3.40 -1.04	43.96 3.22 -0.94	45.19 3.08 -1.03	48.54 3.06 -1.18	52.00 3.03 -0.93	56.78 2.79 -0.29	64.03 2.78 -0.78	61.63 2.63 -0.64	51.94 2.31 -0.46	46.60 2.22 -0.94	41.44 2.45 -0.67	37.29 2.15 -0.38
RIVERSDE_115KV_TB3 55908	33.69 0.40 0.35	30.01 0.36 0.15	30.05 0.45 0.14	28.85 0.43 0.00	29.50 0.41 0.02	31.59 0.44 0.14	40.11 0.52 0.58	43.84 0.62 0.85	40.96 0.54 0.84	36.82 0.49 1.46	36.41 0.22 0.59	36.43 0.26 0.65	37.98 0.23 0.87	39.17 0.16 0.78	40.35 0.12 0.85	43.56 0.22 0.97	47.56 0.29 0.77	53.78 0.32 0.24	60.12 0.30 0.65	58.12 0.29 0.53	49.09 0.30 0.38	43.02 0.35 0.78	38.18 0.42 0.56	34.71 0.28 0.32
ROARING___BROOK_WT_PWR 323790	31.59 -0.17 1.88	27.59 -0.18 2.03	29.11 -0.24 0.39	27.54 -0.28 0.60	28.22 -0.32 0.57	30.02 -0.34 0.93	38.08 -0.40 1.68	42.19 -0.35 1.53	39.45 -0.25 1.57	35.99 -0.11 1.68	36.42 -0.07 0.28	36.48 -0.07 0.27	38.19 -0.08 0.34	38.94 -0.08 0.78	39.99 -0.08 1.01	42.73 -0.09 1.49	46.59 -0.10 1.36	51.66 -0.16 1.87	58.68 -0.18 1.60	57.04 -0.23 1.08	47.66 -0.20 1.32	41.68 -0.22 1.55	36.36 -0.23 1.73	33.40 -0.24 1.12



ROCHESRG_115KV_T4 355643	33.81 0.17 0.00	30.04 0.24 0.00	29.83 0.09 0.00	28.42 0.00 0.00	29.14 0.03 0.00	31.42 0.13 0.00	40.63 -0.24 -0.70	44.32 -0.62 -0.86	41.42 -0.70 -0.86	38.23 -0.68 -1.12	37.65 -0.22 -1.10	37.36 -0.52 -1.05	39.26 -0.35 -1.00	40.78 0.16 -0.83	42.38 0.45 -0.84	45.45 0.13 -1.01	50.22 0.43 -1.74	56.64 1.02 -1.92	64.68 1.63 -2.58	62.07 1.28 -2.42	51.67 0.89 -1.61	45.60 0.52 -1.63	38.90 -0.11 -0.70	36.58 0.56 -1.27
ROCHESTER_9_IC 23652	33.97 0.34 0.00	30.18 0.39 0.00	29.98 0.24 0.00	28.57 0.14 0.00	29.29 0.17 0.00	31.58 0.28 0.00	40.84 -0.04 -0.72	44.56 -0.40 -0.89	41.65 -0.50 -0.88	38.45 -0.49 -1.15	37.90 0.00 -1.12	37.57 -0.33 -1.07	39.52 -0.12 -1.02	41.04 0.40 -0.85	42.64 0.70 -0.86	45.75 0.40 -1.04	50.60 0.77 -1.79	57.07 1.40 -1.97	65.16 2.06 -2.64	62.53 1.69 -2.48	52.10 1.28 -1.65	45.90 0.78 -1.67	39.15 0.11 -0.72	36.82 0.76 -1.30
ROCKVIEW_13_KV_LD 356306	35.64 1.58 -0.42	31.34 1.37 -0.18	31.19 1.28 -0.17	29.62 1.19 0.00	30.45 1.31 -0.03	32.91 1.44 -0.17	43.11 2.25 -0.70	47.78 2.69 -1.02	45.17 2.89 -1.02	42.46 2.91 -1.76	40.46 2.98 -0.71	40.78 3.17 -0.79	42.86 3.20 -1.04	43.80 3.06 -0.94	45.07 2.96 -1.03	48.45 2.97 -1.18	51.96 2.98 -0.93	56.83 2.85 -0.29	64.15 2.90 -0.78	61.81 2.80 -0.64	51.99 2.36 -0.46	46.60 2.22 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
ROME____115KV_TB2 80656	41.39 1.11 -6.65	37.90 0.92 -7.18	31.96 0.83 -1.39	31.20 0.65 -2.12	31.90 0.76 -2.03	35.57 0.97 -3.30	48.03 1.33 -6.54	51.85 1.67 -6.10	48.93 1.40 -6.26	45.64 0.98 -6.87	39.49 0.85 -1.87	39.57 0.92 -1.82	41.72 1.08 -2.03	44.33 1.11 -3.42	46.40 1.07 -4.25	51.96 1.55 -6.10	56.09 1.83 -6.22	64.08 2.15 -8.23	71.01 2.72 -7.82	67.25 3.03 -5.85	57.45 2.26 -6.02	52.22 1.91 -6.86	46.46 1.46 -6.69	41.02 1.25 -5.01
ROSETON___1 23587	35.17 1.14 -0.38	30.97 1.01 -0.16	30.82 0.92 -0.15	29.31 0.88 0.00	30.10 0.96 -0.03	32.49 1.03 -0.16	42.49 1.69 -0.64	46.94 1.94 -0.93	44.26 2.06 -0.93	41.43 2.04 -1.60	39.44 2.02 -0.65	39.72 2.17 -0.72	41.72 2.16 -0.95	42.68 2.03 -0.86	44.11 2.09 -0.94	47.55 2.17 -1.07	51.06 2.16 -0.85	56.11 2.15 -0.26	63.24 2.06 -0.71	60.93 1.99 -0.59	51.26 1.67 -0.42	45.91 1.61 -0.85	40.53 1.61 -0.61	36.32 1.22 -0.35
ROSETON___2 23588	35.17 1.14 -0.38	30.97 1.01 -0.16	30.82 0.92 -0.15	29.31 0.88 0.00	30.10 0.96 -0.03	32.49 1.03 -0.16	42.49 1.69 -0.64	46.94 1.94 -0.93	44.26 2.06 -0.93	41.43 2.04 -1.60	39.44 2.02 -0.65	39.72 2.17 -0.72	41.72 2.16 -0.95	42.68 2.03 -0.86	44.11 2.09 -0.94	47.55 2.17 -1.07	51.06 2.16 -0.85	56.11 2.15 -0.26	63.24 2.06 -0.71	60.93 1.99 -0.59	51.26 1.67 -0.42	45.91 1.61 -0.85	40.53 1.61 -0.61	36.32 1.22 -0.35
ROTTTRDAM_115KV_TB3 80664	34.13 0.77 0.28	30.34 0.66 0.12	30.31 0.68 0.11	29.11 0.68 0.00	29.76 0.67 0.02	31.90 0.72 0.11	40.63 0.92 0.46	44.37 0.97 0.68	41.34 0.74 0.67	37.26 0.64 1.16	36.78 0.48 0.47	36.79 0.48 0.52	38.42 0.50 0.69	39.65 0.48 0.62	40.90 0.49 0.68	44.15 0.62 0.78	48.19 0.77 0.62	54.48 0.97 0.19	61.10 1.15 0.52	59.10 1.17 0.43	49.86 0.98 0.30	43.74 0.91 0.62	38.75 0.88 0.44	35.20 0.70 0.25
RUSSELL___1 23602	34.21 0.57 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.80 0.50 0.00	41.16 0.28 -0.72	44.91 -0.04 -0.88	41.98 -0.17 -0.88	38.67 -0.26 -1.15	38.12 0.22 -1.12	37.82 -0.07 -1.07	39.79 0.15 -1.02	41.39 0.76 -0.84	42.97 1.03 -0.86	46.14 0.80 -1.03	51.08 1.25 -1.79	57.60 1.93 -1.97	65.70 2.60 -2.63	63.05 2.22 -2.48	52.59 1.77 -1.65	46.33 1.22 -1.67	39.45 0.42 -0.72	37.06 1.01 -1.30
RUSSELL___2 23532	34.21 0.57 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.80 0.50 0.00	41.16 0.28 -0.72	44.91 -0.04 -0.88	41.98 -0.17 -0.88	38.67 -0.26 -1.15	38.12 0.22 -1.12	37.82 -0.07 -1.07	39.79 0.15 -1.02	41.39 0.76 -0.84	42.97 1.03 -0.86	46.14 0.80 -1.03	51.08 1.25 -1.79	57.60 1.93 -1.97	65.70 2.60 -2.63	63.05 2.22 -2.48	52.59 1.77 -1.65	46.33 1.22 -1.67	39.45 0.42 -0.72	37.06 1.01 -1.30
RUSSELL___3 23549	34.21 0.57 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.80 0.50 0.00	41.16 0.28 -0.72	44.91 -0.04 -0.88	41.98 -0.17 -0.88	38.67 -0.26 -1.15	38.12 0.22 -1.12	37.82 -0.07 -1.07	39.79 0.15 -1.02	41.39 0.76 -0.84	42.97 1.03 -0.86	46.14 0.80 -1.03	51.08 1.25 -1.79	57.60 1.93 -1.97	65.70 2.60 -2.63	63.05 2.22 -2.48	52.59 1.77 -1.65	46.33 1.22 -1.67	39.45 0.42 -0.72	37.06 1.01 -1.30
RUSSELL___4 23556	34.21 0.57 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.80 0.50 0.00	41.16 0.28 -0.72	44.91 -0.04 -0.88	41.98 -0.17 -0.88	38.67 -0.26 -1.15	38.12 0.22 -1.12	37.82 -0.07 -1.07	39.79 0.15 -1.02	41.39 0.76 -0.84	42.97 1.03 -0.86	46.14 0.80 -1.03	51.08 1.25 -1.79	57.60 1.93 -1.97	65.70 2.60 -2.63	63.05 2.22 -2.48	52.59 1.77 -1.65	46.33 1.22 -1.67	39.45 0.42 -0.72	37.06 1.01 -1.30
RUSSELL___STATION 23914	34.21 0.57 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.80 0.50 0.00	41.16 0.28 -0.72	44.91 -0.04 -0.88	41.98 -0.17 -0.88	38.67 -0.26 -1.15	38.12 0.22 -1.12	37.82 -0.07 -1.07	39.79 0.15 -1.02	41.39 0.76 -0.84	42.97 1.03 -0.86	46.14 0.80 -1.03	51.08 1.25 -1.79	57.60 1.93 -1.97	65.70 2.60 -2.63	63.05 2.22 -2.48	52.59 1.77 -1.65	46.33 1.22 -1.67	39.45 0.42 -0.72	37.06 1.01 -1.30
S SALMON___HYD 24043	41.14 0.17 -7.33	37.81 0.09 -7.93	31.30 0.03 -1.53	30.71 -0.06 -2.34	31.32 -0.03 -2.24	35.04 0.09 -3.64	48.78 0.12 -8.49	52.54 0.22 -8.25	49.74 0.04 -8.43	47.17 -0.19 -9.57	40.62 -0.15 -3.99	40.53 -0.15 -3.85	42.53 -0.08 -4.00	45.06 0.04 -5.23	47.25 0.00 -6.17	52.87 0.04 -8.52	58.13 0.14 -9.94	66.58 0.27 -12.61	74.41 0.60 -13.34	70.06 0.82 -10.88	59.30 0.54 -9.58	54.38 0.39 -10.54	47.29 0.31 -8.67	42.88 0.28 -7.84
S.PERRY__115KV_TB1 80734	35.02 1.38 0.00	31.17 1.37 0.00	30.93 1.19 0.00	29.39 0.97 0.00	30.22 1.11 0.00	32.71 1.41 0.00	42.43 1.41 -0.86	46.24 1.10 -1.06	42.86 0.54 -1.06	39.32 0.15 -1.38	38.64 0.51 -1.35	38.15 0.04 -1.29	40.07 0.23 -1.23	41.72 0.92 -1.02	43.56 1.44 -1.04	46.93 1.37 -1.24	52.26 2.07 -2.15	59.39 3.33 -2.37	68.53 4.90 -3.17	65.77 4.44 -2.98	54.65 3.49 -1.98	47.93 2.48 -2.01	40.56 1.38 -0.87	38.40 2.09 -1.56
SAWYER_23_KV_LOAD_REV_LBMP_A 345024	33.87 0.24 0.00	30.21 0.42 0.00	29.95 0.21 0.00	28.40 -0.03 0.00	29.14 0.03 0.00	31.39 0.09 0.00	40.08 -0.84 -0.76	43.37 -1.63 -0.93	40.34 -1.86 -0.93	37.64 -1.36 -1.21	37.48 -0.48 -1.18	36.89 -1.07 -1.13	38.80 -0.89 -1.08	40.56 -0.12 -0.89	42.61 0.62 -0.91	45.18 -0.22 -1.09	50.02 0.10 -1.88	56.74 0.97 -2.08	65.01 1.75 -2.78	62.20 1.23 -2.62	51.46 0.54 -1.74	45.43 0.22 -1.76	38.38 -0.69 -0.76	36.99 0.87 -1.37



SAWYER___23_KV_LOAD 55526	33.87 0.24 0.00	30.21 0.42 0.00	29.95 0.21 0.00	28.40 -0.03 0.00	29.14 0.03 0.00	31.39 0.09 0.00	40.08 -0.84 -0.76	43.37 -1.63 -0.93	40.34 -1.86 -0.93	37.64 -1.36 -1.21	37.48 -0.48 -1.18	36.89 -1.07 -1.13	38.80 -0.89 -1.08	40.56 -0.12 -0.89	42.61 0.62 -0.91	45.18 -0.22 -1.09	50.02 0.10 -1.88	56.74 0.97 -2.08	65.01 1.75 -2.78	62.20 1.23 -2.62	51.46 0.54 -1.74	45.43 0.22 -1.76	38.38 -0.69 -0.76	36.99 0.87 -1.37
SELKIRK___I 23801	34.12 0.64 0.15	30.33 0.60 0.06	30.31 0.63 0.06	29.05 0.62 0.00	29.71 0.61 0.01	31.86 0.63 0.06	40.64 0.72 0.25	44.50 0.79 0.36	41.44 0.54 0.36	37.57 0.42 0.63	36.67 0.15 0.25	36.66 0.11 0.28	38.35 0.12 0.37	39.30 -0.16 0.34	40.59 -0.12 0.37	43.89 0.00 0.42	47.85 0.14 0.33	53.92 0.32 0.10	60.55 0.37 0.28	58.54 0.41 0.23	49.40 0.39 0.16	43.51 0.39 0.33	38.49 0.42 0.24	35.14 0.52 0.14
SELKIRK___II 23799	33.89 0.47 0.22	30.15 0.45 0.09	30.10 0.45 0.09	28.91 0.48 0.00	29.56 0.46 0.01	31.68 0.47 0.09	40.44 0.64 0.37	44.29 0.75 0.53	41.39 0.66 0.53	37.47 0.60 0.92	36.85 0.44 0.37	36.86 0.44 0.41	38.49 0.43 0.55	39.22 -0.08 0.49	40.50 -0.04 0.54	43.69 0.00 0.61	47.55 0.00 0.49	53.55 0.00 0.15	59.94 -0.12 0.41	57.96 -0.06 0.34	48.89 -0.05 0.24	43.00 0.04 0.49	38.08 0.12 0.35	34.94 0.38 0.20
SENECA OSWGO___HYD 24041	35.83 -0.27 -2.46	32.22 -0.24 -2.66	29.99 -0.27 -0.51	28.96 -0.26 -0.79	29.60 -0.26 -0.75	32.31 -0.22 -1.22	44.67 -0.36 -4.87	48.82 -0.44 -5.19	46.06 -0.45 -5.25	43.62 -0.53 -6.37	40.75 -0.44 -4.41	40.61 -0.44 -4.22	42.33 -0.42 -4.14	43.59 -0.28 -4.07	45.23 -0.29 -4.43	49.65 -0.36 -5.70	55.94 -0.33 -8.23	63.24 -0.21 -9.76	72.22 -0.12 -11.87	68.90 -0.06 -10.60	56.91 -0.10 -7.84	51.41 -0.26 -8.22	42.94 -0.31 -4.93	40.82 -0.21 -6.27
SENECA___115KV_TB3 355854	34.14 0.50 0.00	30.42 0.63 0.00	30.19 0.45 0.00	28.57 0.14 0.00	29.35 0.23 0.00	31.64 0.34 0.00	40.49 -0.44 -0.77	43.92 -1.10 -0.95	40.81 -1.40 -0.94	38.03 -0.98 -1.23	37.83 -0.15 -1.20	37.31 -0.66 -1.15	39.20 -0.50 -1.09	40.98 0.28 -0.90	43.03 1.03 -0.92	45.68 0.27 -1.11	50.63 0.67 -1.91	57.37 1.56 -2.11	65.78 2.48 -2.83	62.95 1.93 -2.66	52.02 1.08 -1.77	45.89 0.65 -1.79	38.78 -0.31 -0.77	37.26 1.11 -1.39
SENECA___ENERGY 23797	35.61 0.54 -1.43	31.82 0.48 -1.55	30.49 0.45 -0.30	29.25 0.37 -0.46	29.96 0.41 -0.44	32.64 0.63 -0.71	43.78 0.68 -2.93	47.97 0.66 -3.24	44.96 0.45 -3.24	41.89 0.15 -3.95	39.94 0.33 -2.84	39.73 0.19 -2.72	41.54 0.27 -2.66	42.99 0.63 -2.56	44.59 0.74 -2.77	48.78 0.93 -3.54	54.30 1.06 -5.21	61.22 1.61 -5.92	70.05 2.30 -7.28	67.04 2.16 -6.52	55.64 1.67 -4.79	49.51 1.04 -5.02	41.93 0.65 -2.97	39.42 0.83 -3.83
SHOEMAKER___GT 23640	35.05 1.08 -0.34	30.92 0.98 -0.14	30.77 0.89 -0.13	29.31 0.88 0.00	30.07 0.93 -0.02	32.44 1.00 -0.14	42.29 1.56 -0.56	46.70 1.81 -0.82	43.86 1.77 -0.82	40.90 1.70 -1.41	39.03 1.69 -0.57	39.22 1.77 -0.63	41.26 1.82 -0.84	42.26 1.71 -0.76	43.67 1.77 -0.82	47.16 1.90 -0.94	50.66 1.87 -0.75	55.86 1.93 -0.23	63.03 1.93 -0.63	60.74 1.87 -0.52	51.11 1.57 -0.37	45.68 1.48 -0.75	40.34 1.49 -0.54	36.24 1.18 -0.31
SHOEMAKR_138KV_BK 111 55601	35.05 1.08 -0.33	30.89 0.95 -0.14	30.77 0.89 -0.13	29.28 0.85 0.00	30.07 0.93 -0.02	32.44 1.00 -0.14	42.21 1.49 -0.55	46.56 1.67 -0.81	43.76 1.69 -0.81	40.81 1.62 -1.39	38.99 1.65 -0.56	39.22 1.77 -0.62	41.25 1.81 -0.83	42.21 1.67 -0.75	43.58 1.68 -0.81	46.97 1.73 -0.93	50.47 1.68 -0.74	55.59 1.66 -0.23	62.72 1.63 -0.62	60.50 1.63 -0.51	50.91 1.38 -0.36	45.50 1.30 -0.74	40.26 1.42 -0.53	36.24 1.18 -0.30
SHOREHAM_IC_1 23715	35.04 0.98 -0.42	30.66 0.69 -0.18	30.06 0.15 -0.17	28.57 0.14 0.00	29.46 0.32 -0.03	31.79 0.31 -0.17	41.83 0.96 -0.70	45.79 0.70 -1.01	43.81 1.53 -1.02	41.81 2.27 -1.76	39.98 2.50 -0.71	40.46 2.84 -0.79	41.85 2.20 -1.04	42.65 1.91 -0.94	43.71 1.60 -1.03	46.99 1.51 -1.18	50.65 1.68 -0.93	55.05 1.07 -0.28	62.04 0.78 -0.78	59.58 0.58 -0.64	50.21 0.59 -0.45	45.20 0.82 -0.93	41.01 2.03 -0.67	36.60 1.46 -0.38
SHOREHAM_IC_2 23716	35.14 1.08 -0.42	30.75 0.77 -0.18	30.21 0.30 -0.17	28.68 0.26 0.00	29.61 0.47 -0.03	31.88 0.41 -0.17	41.83 0.96 -0.70	45.79 0.71 -1.01	43.81 1.53 -1.02	41.74 2.19 -1.76	40.17 2.68 -0.71	40.49 2.87 -0.79	42.43 2.78 -1.04	42.92 2.19 -0.94	43.59 1.48 -1.03	46.81 1.33 -1.18	50.08 1.10 -0.93	54.73 0.75 -0.28	61.92 0.67 -0.78	59.46 0.47 -0.64	49.97 0.34 -0.45	45.03 0.65 -0.93	41.05 2.07 -0.67	36.63 1.49 -0.38
SISSONVILLE____ 23735	108.08 0.24 -74.21	110.17 0.18 -80.20	45.35 0.12 -15.49	52.26 0.11 -23.72	51.87 0.12 -22.64	68.33 0.16 -36.87	107.21 0.32 -66.72	105.11 0.44 -60.59	104.07 0.37 -62.43	105.08 0.34 -66.95	48.33 0.22 -11.34	48.31 0.26 -11.23	52.89 0.27 -14.01	71.07 0.24 -31.04	81.43 0.25 -40.10	103.98 0.35 -59.32	102.84 0.48 -54.32	128.95 0.48 -74.77	125.47 0.60 -64.40	102.79 0.64 -43.79	102.50 0.49 -52.84	105.97 0.52 -62.00	107.15 0.38 -68.45	79.65 0.24 -44.66
SITHE_IND_GS1 24169	32.90 -0.74 0.00	29.17 -0.63 0.00	29.09 -0.65 0.00	27.80 -0.63 0.00	28.44 -0.67 0.00	30.64 -0.66 0.00	29.13 -0.96 10.07	30.84 -1.10 12.13	28.10 -1.07 12.09	20.97 -1.02 15.79	20.45 -0.96 15.40	21.17 -0.96 14.70	23.62 -0.96 14.02	27.32 -0.88 11.60	28.35 -0.90 11.83	29.12 -0.98 14.22	22.46 -1.06 24.53	25.06 -1.02 27.62	22.46 -1.03 36.98	22.56 -1.05 34.75	25.18 -0.88 23.11	19.12 -0.91 23.41	27.33 -0.88 10.10	15.86 -0.69 18.20
SITHE_IND_GS2 24170	32.90 -0.74 0.00	29.17 -0.63 0.00	29.09 -0.65 0.00	27.80 -0.63 0.00	28.44 -0.67 0.00	30.64 -0.66 0.00	29.13 -0.96 10.07	30.84 -1.10 12.13	28.10 -1.07 12.09	20.97 -1.02 15.79	20.45 -0.96 15.40	21.17 -0.96 14.70	23.62 -0.96 14.02	27.32 -0.88 11.60	28.35 -0.90 11.83	29.12 -0.98 14.22	22.46 -1.06 24.53	25.06 -1.02 27.62	22.46 -1.03 36.98	22.56 -1.05 34.75	25.18 -0.88 23.11	19.12 -0.91 23.41	27.33 -0.88 10.10	15.86 -0.69 18.20
SITHE_IND_GS3 24171	32.90 -0.74 0.00	29.17 -0.63 0.00	29.09 -0.65 0.00	27.80 -0.63 0.00	28.44 -0.67 0.00	30.64 -0.66 0.00	29.13 -0.96 10.07	30.84 -1.10 12.13	28.10 -1.07 12.09	20.97 -1.02 15.79	20.45 -0.96 15.40	21.17 -0.96 14.70	23.62 -0.96 14.02	27.32 -0.88 11.60	28.35 -0.90 11.83	29.12 -0.98 14.22	22.46 -1.06 24.53	25.06 -1.02 27.62	22.46 -1.03 36.98	22.56 -1.05 34.75	25.18 -0.88 23.11	19.12 -0.91 23.41	27.33 -0.88 10.10	15.86 -0.69 18.20
SITHE_IND_GS4 24172	32.90 -0.74 0.00	29.17 -0.63 0.00	29.09 -0.65 0.00	27.80 -0.63 0.00	28.44 -0.67 0.00	30.64 -0.66 0.00	29.13 -0.96 10.07	30.84 -1.10 12.13	28.10 -1.07 12.09	20.97 -1.02 15.79	20.45 -0.96 15.40	21.17 -0.96 14.70	23.62 -0.96 14.02	27.32 -0.88 11.60	28.35 -0.90 11.83	29.12 -0.98 14.22	22.46 -1.06 24.53	25.06 -1.02 27.62	22.46 -1.03 36.98	22.56 -1.05 34.75	25.18 -0.88 23.11	19.12 -0.91 23.41	27.33 -0.88 10.10	15.86 -0.69 18.20



SITHE___BATAVIA 24024	34.91 1.28 0.00	31.11 1.31 0.00	30.72 0.98 0.00	29.22 0.79 0.00	29.81 0.70 0.00	32.42 1.13 0.00	41.35 0.44 -0.75	44.99 0.00 -0.92	41.85 -0.33 -0.91	38.53 -0.45 -1.19	38.27 0.33 -1.16	37.94 0.00 -1.11	39.90 0.23 -1.06	42.02 1.35 -0.88	43.21 1.23 -0.89	46.36 0.97 -1.07	51.29 1.39 -1.85	58.27 2.52 -2.04	67.13 3.93 -2.74	64.02 3.09 -2.57	53.34 2.46 -1.71	46.97 1.78 -1.73	39.94 0.88 -0.75	37.80 1.70 -1.35
SITHE___INDEPEND 23800	32.90 -0.74 0.00	29.17 -0.63 0.00	29.09 -0.65 0.00	27.77 -0.65 0.00	28.47 -0.64 0.00	30.61 -0.69 0.00	29.13 -0.96 10.07	30.84 -1.10 12.13	28.10 -1.07 12.09	20.93 -1.06 15.79	20.42 -0.96 15.40	21.14 -0.99 14.70	23.58 -1.00 14.02	27.28 -0.92 11.60	28.35 -0.90 11.83	29.07 -1.02 14.22	22.46 -1.06 24.53	25.06 -1.02 27.62	22.46 -1.03 36.98	22.56 -1.05 34.75	25.13 -0.93 23.11	19.13 -0.91 23.41	27.29 -0.92 10.10	15.86 -0.70 18.20
SITHE___MASSENA 23902	141.30 0.03 -107.63	146.13 0.03 -116.31	52.21 0.00 -22.47	62.89 0.06 -34.40	61.98 0.03 -32.83	84.81 0.03 -53.48	136.50 0.00 -96.34	131.44 0.00 -87.37	131.34 0.04 -90.03	134.34 0.11 -96.44	52.64 0.07 -15.80	52.54 0.04 -15.67	58.34 0.00 -19.73	84.33 0.00 -44.53	98.75 0.00 -57.67	129.69 -0.04 -85.43	125.74 -0.05 -77.75	160.85 -0.11 -107.26	152.11 -0.18 -91.83	120.22 -0.17 -62.03	124.73 -0.10 -75.65	132.38 0.00 -88.93	137.16 0.00 -98.85	98.75 0.00 -64.00
SITHE___OGDNSBRG 24021	121.26 0.44 -87.19	124.38 0.36 -94.22	48.27 0.33 -18.20	56.58 0.28 -27.87	56.03 0.32 -26.60	75.03 0.41 -43.32	119.08 0.64 -78.28	115.92 0.79 -71.06	115.10 0.62 -73.21	116.73 0.45 -78.49	50.22 0.29 -13.15	50.19 0.33 -13.03	55.22 0.31 -16.30	76.45 0.32 -36.34	88.40 0.33 -46.99	114.37 0.53 -69.53	112.26 0.67 -63.54	142.03 0.81 -87.53	136.74 1.03 -75.24	110.58 1.17 -51.05	111.88 0.89 -61.82	116.90 0.87 -72.58	119.31 0.69 -80.31	87.50 0.49 -52.26
SITHE___STERLING 23777	39.15 0.91 -4.61	35.52 0.75 -4.98	31.42 0.71 -0.96	30.47 0.57 -1.47	31.16 0.64 -1.41	34.43 0.85 -2.29	46.07 1.12 -4.78	50.01 1.41 -4.53	47.10 1.20 -4.64	43.77 0.83 -5.15	39.18 0.74 -1.67	39.22 0.77 -1.62	41.25 0.89 -1.75	43.37 0.92 -2.66	45.22 0.90 -3.24	50.17 1.29 -4.58	54.40 1.44 -4.92	61.86 1.77 -6.39	68.98 2.17 -6.34	65.73 2.45 -4.92	55.74 1.82 -4.74	50.30 1.52 -5.33	44.35 1.15 -4.89	39.69 1.01 -3.92
SLEIGHT__34_KV_TB1 80719	33.60 -0.03 0.00	29.83 0.03 0.00	29.68 -0.06 0.00	28.31 -0.11 0.00	29.02 -0.09 0.00	31.33 0.03 0.00	40.91 -0.20 -0.95	44.81 -0.44 -1.18	41.98 -0.45 -1.17	38.75 -0.57 -1.53	38.05 -0.22 -1.49	37.81 -0.44 -1.43	39.66 0.08 -1.36	41.00 0.29 -1.12	42.52 0.18 -1.15	45.87 0.38 -1.38	50.81 0.86 -2.38	57.15 1.39 -2.59	65.33 1.11 -3.47	62.73 1.11 -3.26	52.18 0.84 -2.17	46.00 0.35 -2.20	39.11 -0.15 -0.95	36.78 0.31 -1.71
SMITHTWN_69_KV_BK 1 55830	35.67 1.61 -0.42	31.19 1.22 -0.18	30.68 0.77 -0.17	29.14 0.71 0.00	30.07 0.93 -0.03	32.41 0.94 -0.17	42.51 1.65 -0.70	46.45 1.37 -1.01	44.47 2.19 -1.02	42.42 2.87 -1.76	40.83 3.35 -0.71	41.12 3.50 -0.79	43.05 3.40 -1.04	43.52 2.79 -0.94	44.21 2.10 -1.03	47.48 1.99 -1.18	50.84 1.87 -0.93	55.59 1.61 -0.28	62.76 1.51 -0.78	60.28 1.28 -0.64	50.75 1.13 -0.45	45.59 1.22 -0.93	41.55 2.57 -0.67	37.12 1.98 -0.38
SOUTH CAIRO___GT 23612	36.03 2.39 0.00	31.94 2.15 0.00	31.94 2.20 0.00	30.47 2.05 0.00	31.03 1.92 0.00	33.58 2.28 0.00	43.22 3.05 0.00	47.38 3.31 0.00	43.62 2.35 0.00	39.49 1.70 0.00	38.02 1.25 0.00	37.97 1.14 0.00	39.88 1.27 0.00	41.03 1.23 0.00	42.44 1.36 0.00	46.26 1.95 0.00	50.25 2.21 0.00	57.03 3.33 0.00	64.28 3.81 0.00	62.33 3.97 0.00	52.62 3.44 0.00	46.23 2.78 0.00	40.84 2.53 0.00	37.08 2.33 0.00
SOUTH HAMPTN___IC 23720	35.37 1.31 -0.42	30.99 1.01 -0.18	30.38 0.47 -0.17	28.85 0.43 0.00	29.75 0.61 -0.03	32.07 0.59 -0.17	42.15 1.28 -0.70	46.19 1.10 -1.01	44.22 1.94 -1.02	42.23 2.68 -1.76	40.43 2.94 -0.71	40.94 3.32 -0.79	42.32 2.66 -1.04	43.16 2.43 -0.94	44.21 2.09 -1.03	47.52 2.04 -1.18	51.23 2.26 -0.93	55.69 1.72 -0.28	62.70 1.45 -0.78	60.22 1.23 -0.64	50.75 1.13 -0.45	45.68 1.30 -0.93	41.44 2.45 -0.67	37.05 1.91 -0.38
SOUTHDOW_115KV_TB1 355954	34.92 1.28 0.00	31.11 1.31 0.00	30.72 0.98 0.00	28.99 0.57 0.00	29.87 0.76 0.00	32.46 1.16 0.00	41.91 0.96 -0.78	45.83 0.79 -0.96	42.31 0.08 -0.96	39.46 0.42 -1.25	39.21 1.21 -1.22	38.80 0.81 -1.17	40.69 0.97 -1.11	42.42 1.71 -0.92	44.65 2.63 -0.94	47.30 1.86 -1.13	52.44 2.45 -1.95	59.44 3.60 -2.15	68.12 4.78 -2.88	65.21 4.14 -2.70	53.78 2.80 -1.80	47.40 2.13 -1.82	40.09 1.00 -0.79	38.26 2.09 -1.42
SOUTHOLD_69_KV_BK 2 55809	35.61 1.55 -0.42	31.25 1.28 -0.18	30.68 0.77 -0.17	29.08 0.65 0.00	30.04 0.90 -0.03	32.29 0.81 -0.17	42.27 1.41 -0.70	46.32 1.23 -1.01	44.39 2.10 -1.02	42.31 2.76 -1.76	40.79 3.31 -0.71	41.16 3.54 -0.79	43.13 3.47 -1.04	43.64 2.90 -0.94	44.29 2.18 -1.03	47.57 2.08 -1.18	50.99 2.02 -0.93	55.75 1.77 -0.28	63.07 1.81 -0.78	60.51 1.52 -0.64	50.90 1.28 -0.45	45.90 1.52 -0.93	41.74 2.76 -0.67	37.43 2.29 -0.38
SOUTHOLD___IC 23719	35.50 1.45 -0.42	31.20 1.22 -0.18	30.53 0.63 -0.17	28.99 0.57 0.00	29.90 0.76 -0.03	32.19 0.72 -0.17	42.23 1.37 -0.70	46.28 1.19 -1.01	44.35 2.06 -1.02	42.38 2.84 -1.76	40.61 3.12 -0.71	41.12 3.50 -0.79	42.51 2.86 -1.04	43.36 2.63 -0.94	44.41 2.30 -1.03	47.74 2.26 -1.18	51.56 2.59 -0.93	56.02 2.04 -0.28	63.19 1.93 -0.78	60.69 1.69 -0.64	51.10 1.47 -0.45	46.03 1.65 -0.93	41.71 2.72 -0.67	37.43 2.29 -0.38
SOUTH_FORK_WT_PWR 323839	35.27 1.21 -0.42	31.04 1.07 -0.18	30.41 0.51 -0.17	28.82 0.40 0.00	29.75 0.61 -0.03	31.97 0.50 -0.17	41.87 1.00 -0.70	45.92 0.84 -1.01	44.02 1.73 -1.02	42.08 2.53 -1.76	40.28 2.79 -0.71	40.82 3.20 -0.79	42.16 2.51 -1.04	43.04 2.31 -0.94	44.04 1.93 -1.03	47.39 1.90 -1.18	51.13 2.16 -0.93	55.59 1.61 -0.28	62.64 1.39 -0.78	60.16 1.17 -0.64	50.75 1.13 -0.45	45.77 1.39 -0.93	41.51 2.53 -0.67	37.36 2.23 -0.38
SPIERFLS_115KV_TB 1 80737	34.56 1.35 0.42	30.69 1.07 0.18	30.82 1.25 0.17	29.53 1.11 0.00	30.19 1.11 0.03	32.44 1.31 0.17	40.95 1.49 0.70	44.55 1.50 1.02	40.54 0.29 1.02	36.14 0.11 1.76	35.55 -0.51 0.71	35.41 -0.63 0.79	36.91 -0.66 1.04	38.33 -0.52 0.94	39.52 -0.53 1.03	43.04 -0.09 1.18	47.64 0.53 0.94	55.13 1.72 0.29	62.04 2.36 0.78	60.11 2.39 0.64	50.64 1.92 0.46	44.03 1.52 0.94	39.17 1.53 0.67	35.48 1.11 0.38
ST LAWRENCE____ 23600	25.21 -0.30 8.12	20.75 -0.27 8.77	27.71 -0.27 1.77	25.57 -0.26 2.60	26.37 -0.26 2.48	26.98 -0.28 4.04	32.48 -0.40 7.28	37.00 -0.48 6.59	34.06 -0.41 6.79	30.25 -0.30 7.24	35.24 -0.30 1.24	35.30 -0.30 1.23	36.71 -0.35 1.55	36.07 -0.36 3.36	36.36 -0.37 4.35	37.42 -0.44 6.44	41.68 -0.53 5.83	45.02 -0.59 8.09	52.82 -0.72 6.93	52.98 -0.70 4.68	42.88 -0.59 5.71	36.30 -0.48 6.67	30.51 -0.38 7.42	29.60 -0.31 4.84



STATE_CA_115KV_115_LB 55624	33.71 0.40 0.33	30.05 0.39 0.14	30.06 0.45 0.13	28.88 0.45 0.00	29.50 0.41 0.02	31.60 0.44 0.13	40.11 0.48 0.54	43.86 0.57 0.79	40.93 0.45 0.79	36.84 0.42 1.36	36.37 0.15 0.55	36.40 0.18 0.61	37.92 0.12 0.81	39.18 0.12 0.73	40.37 0.08 0.79	43.58 0.18 0.91	47.56 0.24 0.72	53.85 0.38 0.22	60.29 0.42 0.61	58.27 0.41 0.50	49.21 0.39 0.35	43.12 0.39 0.72	38.25 0.46 0.52	34.74 0.28 0.30
STATE_ST_34_KV_LOAD 55959	35.47 0.37 -1.46	31.71 0.33 -1.58	30.37 0.33 -0.31	29.12 0.23 -0.47	29.85 0.29 -0.45	32.43 0.41 -0.73	43.56 0.40 -2.99	47.77 0.40 -3.30	44.81 0.25 -3.30	41.86 0.04 -4.03	39.82 0.15 -2.90	39.64 0.04 -2.77	41.44 0.12 -2.71	42.72 0.32 -2.61	44.40 0.49 -2.83	48.50 0.58 -3.61	54.12 0.77 -5.31	60.91 1.18 -6.03	69.52 1.63 -7.42	66.58 1.58 -6.65	55.24 1.18 -4.89	49.26 0.70 -5.12	41.69 0.34 -3.03	39.22 0.56 -3.91
STATION_5_MISC_HYD 23604	34.01 0.37 0.00	30.18 0.39 0.00	29.95 0.21 0.00	28.65 0.23 0.00	29.17 0.06 0.00	31.61 0.31 0.00	40.84 -0.04 -0.72	44.60 -0.35 -0.89	41.70 -0.45 -0.88	38.41 -0.53 -1.15	37.90 0.00 -1.12	37.72 -0.18 -1.07	39.59 -0.04 -1.02	41.27 0.63 -0.85	42.52 0.57 -0.86	45.79 0.44 -1.04	50.46 0.62 -1.79	57.01 1.34 -1.97	65.17 2.06 -2.64	62.42 1.58 -2.48	52.10 1.28 -1.65	45.99 0.87 -1.67	39.30 0.27 -0.72	36.82 0.76 -1.30
STA_168_34_KV_BK1_2_REV_LBMP_B 345032	34.58 0.94 0.00	30.72 0.92 0.00	30.54 0.80 0.00	29.11 0.68 0.00	29.87 0.76 0.00	32.27 0.97 0.00	42.45 1.04 -1.24	46.55 0.93 -1.55	43.56 0.74 -1.55	40.26 0.45 -2.02	39.52 0.77 -1.97	39.26 0.55 -1.88	41.18 0.77 -1.79	42.51 1.23 -1.48	44.07 1.48 -1.51	47.63 1.51 -1.82	53.10 1.92 -3.14	59.78 2.68 -3.39	68.52 3.51 -4.55	65.72 3.09 -4.27	54.52 2.51 -2.84	48.11 1.78 -2.88	40.59 1.03 -1.24	38.35 1.36 -2.24
STA_56_34_KV_BUS2_REV_LBMP_B 345033	33.74 0.10 0.00	29.98 0.18 0.00	29.77 0.03 0.00	28.37 -0.06 0.00	29.08 -0.03 0.00	31.36 0.06 0.00	40.65 -0.24 -0.72	44.35 -0.62 -0.89	41.49 -0.66 -0.89	38.27 -0.68 -1.16	37.68 -0.22 -1.13	37.39 -0.52 -1.08	39.33 -0.31 -1.03	40.80 0.16 -0.85	42.36 0.41 -0.87	45.53 0.18 -1.04	50.32 0.48 -1.80	56.76 1.07 -1.98	64.76 1.63 -2.66	62.14 1.28 -2.50	51.77 0.93 -1.66	45.61 0.48 -1.68	38.92 -0.11 -0.73	36.55 0.49 -1.31
STA_56___34_KV_BUS2 355983	33.74 0.10 0.00	29.98 0.18 0.00	29.77 0.03 0.00	28.37 -0.06 0.00	29.08 -0.03 0.00	31.36 0.06 0.00	40.65 -0.24 -0.72	44.35 -0.62 -0.89	41.49 -0.66 -0.89	38.27 -0.68 -1.16	37.68 -0.22 -1.13	37.39 -0.52 -1.08	39.33 -0.31 -1.03	40.80 0.16 -0.85	42.36 0.41 -0.87	45.53 0.18 -1.04	50.32 0.48 -1.80	56.76 1.07 -1.98	64.76 1.63 -2.66	62.14 1.28 -2.50	51.77 0.93 -1.66	45.61 0.48 -1.68	38.92 -0.11 -0.73	36.55 0.49 -1.31
STA_67___115KV_BK2 355882	33.91 0.27 0.00	30.12 0.33 0.00	29.92 0.18 0.00	28.51 0.09 0.00	29.23 0.12 0.00	31.52 0.22 0.00	40.76 -0.12 -0.72	44.47 -0.48 -0.88	41.57 -0.58 -0.88	38.37 -0.57 -1.15	37.78 -0.11 -1.12	37.49 -0.41 -1.07	39.44 -0.19 -1.02	40.95 0.32 -0.84	42.56 0.62 -0.86	45.65 0.31 -1.03	50.45 0.62 -1.78	56.95 1.29 -1.97	65.03 1.93 -2.63	62.35 1.52 -2.47	51.95 1.13 -1.64	45.81 0.70 -1.67	39.07 0.04 -0.72	36.71 0.66 -1.29
STA_7___115KV_9TRANS 80674	34.21 0.57 0.00	30.39 0.60 0.00	30.16 0.42 0.00	28.74 0.31 0.00	29.46 0.35 0.00	31.80 0.50 0.00	41.16 0.28 -0.72	44.91 -0.04 -0.88	41.98 -0.17 -0.88	38.67 -0.26 -1.15	38.12 0.22 -1.12	37.82 -0.07 -1.07	39.79 0.15 -1.02	41.39 0.76 -0.84	42.97 1.03 -0.86	46.14 0.80 -1.03	51.08 1.25 -1.79	57.60 1.93 -1.97	65.70 2.60 -2.63	63.05 2.22 -2.48	52.59 1.77 -1.65	46.33 1.22 -1.67	39.45 0.42 -0.72	37.06 1.01 -1.30
STA_82___115KV_TB1 80780	33.91 0.27 0.00	30.15 0.36 0.00	29.92 0.18 0.00	28.51 0.09 0.00	29.23 0.12 0.00	31.55 0.25 0.00	40.82 -0.08 -0.73	44.53 -0.44 -0.90	41.63 -0.54 -0.90	38.39 -0.57 -1.17	37.84 -0.07 -1.14	37.51 -0.41 -1.09	39.46 -0.19 -1.04	40.97 0.32 -0.86	42.58 0.62 -0.88	45.67 0.31 -1.05	50.53 0.67 -1.82	56.99 1.29 -2.00	65.09 1.93 -2.68	62.46 1.58 -2.52	51.98 1.13 -1.68	45.84 0.70 -1.70	39.08 0.04 -0.73	36.77 0.70 -1.32
STEEL___WIND 323596	34.21 0.57 0.00	30.39 0.60 0.00	30.10 0.36 0.00	28.57 0.14 0.00	29.14 0.03 0.00	31.64 0.34 0.00	40.37 -0.56 -0.77	43.92 -1.10 -0.95	40.76 -1.45 -0.94	37.96 -1.06 -1.23	37.83 -0.15 -1.20	37.49 -0.48 -1.15	39.35 -0.35 -1.09	41.45 0.75 -0.90	42.66 0.66 -0.92	45.68 0.27 -1.11	50.39 0.43 -1.91	57.10 1.29 -2.11	65.60 2.30 -2.83	62.71 1.69 -2.66	51.98 1.03 -1.77	45.93 0.69 -1.79	39.09 0.00 -0.77	37.23 1.08 -1.39
STEPHTWN_115KV_BK_2 55603	33.93 0.61 0.32	30.20 0.54 0.13	30.24 0.62 0.13	29.02 0.60 0.00	29.67 0.58 0.02	31.83 0.66 0.13	40.40 0.76 0.52	44.14 0.84 0.77	41.16 0.66 0.76	36.99 0.53 1.32	36.46 0.22 0.53	36.50 0.26 0.59	38.06 0.23 0.78	39.28 0.20 0.71	40.52 0.21 0.77	43.78 0.35 0.88	47.82 0.48 0.70	54.29 0.81 0.21	60.79 0.91 0.59	58.75 0.88 0.48	49.57 0.74 0.34	43.44 0.70 0.70	38.50 0.69 0.50	34.95 0.49 0.29
STEUBEN_REC_LFGE 323667	34.65 1.01 0.00	30.81 1.01 0.00	30.66 0.92 0.00	29.08 0.65 0.00	29.99 0.87 0.00	32.43 1.13 0.00	42.23 1.04 -1.02	46.04 0.71 -1.26	42.73 0.21 -1.26	39.47 0.04 -1.64	38.82 0.44 -1.60	38.36 0.00 -1.53	40.26 0.19 -1.46	41.75 0.76 -1.21	43.71 1.40 -1.23	46.98 1.20 -1.48	52.23 1.63 -2.55	59.19 2.68 -2.81	68.10 3.87 -3.76	65.51 3.62 -3.53	54.18 2.66 -2.35	47.61 1.78 -2.38	40.14 0.80 -1.03	38.31 1.70 -1.85
STILLWATER___SOLAR 323814	34.58 1.38 0.44	30.78 1.16 0.18	30.76 1.19 0.17	29.59 1.17 0.00	30.25 1.17 0.03	32.43 1.31 0.18	41.09 1.65 0.73	44.78 1.76 1.06	41.28 1.07 1.06	36.79 0.83 1.83	36.33 0.29 0.74	36.23 0.22 0.82	37.80 0.27 1.08	39.13 0.32 0.98	40.43 0.41 1.07	43.80 0.71 1.22	48.27 1.20 0.97	55.39 1.99 0.30	62.19 2.54 0.81	60.20 2.51 0.67	50.77 2.06 0.47	44.22 1.74 0.97	39.22 1.61 0.70	35.60 1.25 0.40
STONY___BROOK 24151	35.57 1.52 -0.42	31.13 1.16 -0.18	30.53 0.63 -0.17	29.02 0.60 0.00	29.93 0.79 -0.03	32.29 0.81 -0.17	42.47 1.61 -0.70	46.45 1.37 -1.01	44.43 2.14 -1.02	42.46 2.91 -1.76	40.57 3.09 -0.71	41.05 3.43 -0.79	42.47 2.82 -1.04	43.29 2.55 -0.94	44.37 2.26 -1.03	47.66 2.17 -1.18	51.37 2.40 -0.93	55.91 1.93 -0.28	62.64 1.39 -0.78	60.16 1.17 -0.64	50.95 1.33 -0.45	45.77 1.39 -0.93	41.51 2.53 -0.67	37.12 1.98 -0.38
STURGEON_POOL_HYD 23609	35.49 1.65 -0.20	31.34 1.46 -0.09	31.19 1.37 -0.08	29.70 1.28 0.00	30.44 1.31 -0.01	32.89 1.50 -0.08	42.67 2.17 -0.34	47.03 2.47 -0.49	44.23 2.48 -0.49	40.98 2.34 -0.85	39.54 2.43 -0.34	39.75 2.54 -0.38	41.74 2.63 -0.50	42.72 2.47 -0.46	44.00 2.42 -0.50	47.40 2.53 -0.57	50.90 2.40 -0.45	56.31 2.47 -0.14	63.33 2.48 -0.38	61.12 2.45 -0.31	51.51 2.11 -0.22	45.81 1.91 -0.45	40.63 1.99 -0.32	36.57 1.63 -0.19



ST_LAW_115_BK7_LBMP 345037	22.02 -0.30 11.32	17.30 -0.27 12.23	27.08 -0.30 2.36	24.55 -0.26 3.62	25.40 -0.26 3.45	25.36 -0.31 5.62	29.60 -0.44 10.13	34.40 -0.48 9.19	31.39 -0.41 9.47	27.34 -0.30 10.14	34.78 -0.33 1.66	34.85 -0.33 1.65	36.15 -0.39 2.07	34.71 -0.40 4.68	34.61 -0.41 6.06	34.84 -0.49 8.98	39.34 -0.53 8.17	41.78 -0.64 11.28	50.03 -0.79 9.66	51.08 -0.76 6.52	40.58 -0.64 7.95	33.62 -0.48 9.35	27.54 -0.38 10.39	27.68 -0.35 6.73
ST_LAW_115_BK8_LBMP 345038	22.02 -0.30 11.32	17.30 -0.27 12.23	27.08 -0.30 2.36	24.55 -0.26 3.62	25.40 -0.26 3.45	25.36 -0.31 5.62	29.60 -0.44 10.13	34.40 -0.48 9.19	31.39 -0.41 9.47	27.34 -0.30 10.14	34.78 -0.33 1.66	34.85 -0.33 1.65	36.15 -0.39 2.07	34.71 -0.40 4.68	34.61 -0.41 6.06	34.84 -0.49 8.98	39.34 -0.53 8.17	41.78 -0.64 11.28	50.03 -0.79 9.66	51.08 -0.76 6.52	40.58 -0.64 7.95	33.62 -0.48 9.35	27.54 -0.38 10.39	27.68 -0.35 6.73
ST_LAW_230_BK5_LBMP 345035	26.70 -0.30 6.64	22.36 -0.27 7.17	28.09 -0.27 1.39	26.05 -0.26 2.12	26.83 -0.26 2.02	27.72 -0.28 3.30	33.82 -0.40 5.94	38.20 -0.48 5.39	35.30 -0.41 5.55	31.54 -0.30 5.95	35.50 -0.30 0.97	35.57 -0.30 0.97	37.05 -0.35 1.22	36.69 -0.36 2.75	37.16 -0.37 3.56	38.60 -0.44 5.27	42.72 -0.53 4.79	46.50 -0.59 6.61	54.08 -0.72 5.66	53.84 -0.70 3.82	43.92 -0.59 4.66	37.49 -0.48 5.48	31.83 -0.38 6.09	30.49 -0.31 3.95
ST_LAW_230_BK6_LBMP 345036	26.70 -0.30 6.64	22.36 -0.27 7.17	28.09 -0.27 1.39	26.05 -0.26 2.12	26.83 -0.26 2.02	27.72 -0.28 3.30	33.82 -0.40 5.94	38.20 -0.48 5.39	35.30 -0.41 5.55	31.54 -0.30 5.95	35.50 -0.30 0.97	35.57 -0.30 0.97	37.05 -0.35 1.22	36.69 -0.36 2.75	37.16 -0.37 3.56	38.60 -0.44 5.27	42.72 -0.53 4.79	46.50 -0.59 6.61	54.08 -0.72 5.66	53.84 -0.70 3.82	43.92 -0.59 4.66	37.49 -0.48 5.48	31.83 -0.38 6.09	30.49 -0.31 3.95
SUGRLOAF_69_KV_LOAD_REV_LBMP_G 345026	35.17 1.18 -0.35	30.99 1.04 -0.15	30.86 0.98 -0.14	29.33 0.91 0.00	30.15 1.02 -0.02	32.54 1.10 -0.14	42.39 1.65 -0.58	46.82 1.90 -0.85	44.05 1.94 -0.85	41.14 1.89 -1.47	39.31 1.95 -0.59	39.54 2.06 -0.66	41.60 2.12 -0.87	42.57 1.99 -0.79	43.91 1.97 -0.86	47.28 1.99 -0.98	50.74 1.92 -0.78	55.87 1.93 -0.24	63.00 1.87 -0.65	60.71 1.81 -0.54	51.08 1.52 -0.38	45.66 1.43 -0.78	40.48 1.61 -0.56	36.40 1.32 -0.32
SWANROAD_115KV_TB1 355699	33.84 0.20 0.00	30.21 0.42 0.00	29.95 0.21 0.00	28.40 -0.03 0.00	29.14 0.03 0.00	31.39 0.09 0.00	39.35 -1.57 -0.75	42.48 -2.51 -0.92	39.54 -2.64 -0.92	36.91 -2.08 -1.20	36.77 -1.18 -1.17	36.14 -1.80 -1.12	38.05 -1.62 -1.07	39.84 -0.84 -0.88	41.82 -0.16 -0.90	44.28 -1.11 -1.08	49.00 -0.91 -1.86	55.60 -0.16 -2.06	63.71 0.48 -2.76	61.01 0.06 -2.59	50.41 -0.49 -1.72	44.55 -0.65 -1.75	37.69 -1.38 -0.75	36.36 0.24 -1.36
SYNERGY___BIOGAS 323694	34.85 1.21 0.00	31.11 1.31 0.00	30.78 1.04 0.00	29.25 0.82 0.00	29.99 0.87 0.00	32.43 1.13 0.00	41.39 0.48 -0.75	44.95 -0.04 -0.92	41.81 -0.37 -0.91	38.56 -0.42 -1.19	38.23 0.29 -1.16	37.72 -0.22 -1.11	39.75 0.08 -1.06	41.58 0.92 -0.88	43.50 1.52 -0.89	46.36 0.97 -1.07	51.43 1.54 -1.85	58.43 2.68 -2.04	67.14 3.93 -2.74	64.20 3.27 -2.57	53.29 2.41 -1.71	46.88 1.69 -1.73	39.67 0.61 -0.75	37.80 1.70 -1.35
SYRACUSE___ENERGY_ST1 323597	35.52 0.07 -1.81	31.81 0.06 -1.96	30.18 0.06 -0.38	29.03 0.03 -0.58	29.72 0.06 -0.55	32.29 0.09 -0.90	43.62 0.00 -3.46	48.00 0.04 -3.88	45.11 0.00 -3.85	42.36 -0.11 -4.69	40.05 -0.04 -3.32	39.89 -0.11 -3.17	41.68 -0.04 -3.11	42.89 0.08 -3.02	44.52 0.16 -3.28	48.73 0.22 -4.20	54.45 0.29 -6.12	60.88 0.43 -6.75	69.42 0.67 -8.29	66.38 0.64 -7.38	55.15 0.49 -5.49	49.43 0.22 -5.77	41.82 0.00 -3.51	39.32 0.17 -4.40
SYRACUSE___ENERGY_ST2 323598	35.52 0.07 -1.81	31.81 0.06 -1.96	30.18 0.06 -0.38	29.03 0.03 -0.58	29.72 0.06 -0.55	32.29 0.09 -0.90	43.62 0.00 -3.46	48.00 0.04 -3.88	45.11 0.00 -3.85	42.36 -0.11 -4.69	40.05 -0.04 -3.32	39.89 -0.11 -3.17	41.68 -0.04 -3.11	42.89 0.08 -3.02	44.52 0.16 -3.28	48.73 0.22 -4.20	54.45 0.29 -6.12	60.88 0.43 -6.75	69.42 0.67 -8.29	66.38 0.64 -7.38	55.15 0.49 -5.49	49.43 0.22 -5.77	41.82 0.00 -3.51	39.32 0.17 -4.40
SYRACUSE___POWER 24017	35.57 -0.03 -1.97	31.89 -0.03 -2.13	30.12 -0.03 -0.41	28.97 -0.09 -0.63	29.65 -0.06 -0.60	32.25 -0.03 -0.98	43.20 -0.20 -3.24	47.28 -0.22 -3.43	44.47 -0.25 -3.45	41.57 -0.34 -4.12	39.16 -0.22 -2.61	39.03 -0.29 -2.50	40.85 -0.23 -2.47	42.23 -0.12 -2.55	43.87 -0.04 -2.83	48.00 0.00 -3.69	53.19 0.05 -5.10	59.89 0.21 -5.98	67.98 0.42 -7.09	64.99 0.41 -6.22	54.23 0.30 -4.77	48.55 0.04 -5.05	41.44 -0.15 -3.29	38.59 0.00 -3.83
TALLMAN_138KV_BK151 55660	35.32 1.31 -0.38	31.12 1.16 -0.16	30.96 1.07 -0.15	29.42 0.99 0.00	30.24 1.11 -0.03	32.67 1.22 -0.15	42.63 1.85 -0.62	47.14 2.16 -0.91	44.40 2.23 -0.91	41.58 2.23 -1.56	39.72 2.32 -0.63	39.99 2.47 -0.70	42.05 2.51 -0.93	42.98 2.35 -0.84	44.30 2.30 -0.91	47.70 2.35 -1.04	51.18 2.31 -0.83	56.21 2.26 -0.25	63.34 2.18 -0.70	60.98 2.04 -0.57	51.35 1.77 -0.41	45.93 1.65 -0.83	40.79 1.88 -0.60	36.59 1.49 -0.34
TEALLAVE_115KV_TB7 355573	35.85 -0.03 -2.25	32.19 -0.03 -2.43	30.18 -0.03 -0.47	29.09 -0.06 -0.72	29.77 -0.03 -0.68	32.38 -0.03 -1.12	43.29 -0.20 -3.33	47.21 -0.26 -3.41	44.44 -0.29 -3.46	41.52 -0.34 -4.07	38.89 -0.22 -2.34	38.78 -0.29 -2.24	40.62 -0.23 -2.24	42.12 -0.12 -2.44	43.79 -0.04 -2.75	47.90 -0.04 -3.64	52.87 0.00 -4.82	59.72 0.16 -5.86	67.59 0.36 -6.76	64.56 0.35 -5.85	54.03 0.25 -4.61	48.37 0.00 -4.92	41.51 -0.19 -3.39	38.47 0.00 -3.72
TELGRAPH_34_KV_EAST 80808	34.31 0.67 0.00	30.60 0.80 0.00	30.31 0.57 0.00	28.79 0.37 0.00	29.52 0.41 0.00	31.86 0.56 0.00	40.51 -0.40 -0.75	43.89 -1.10 -0.92	40.86 -1.32 -0.92	37.92 -1.06 -1.20	37.68 -0.26 -1.17	37.13 -0.81 -1.11	39.09 -0.58 -1.06	40.87 0.20 -0.88	42.80 0.82 -0.90	45.52 0.13 -1.08	50.43 0.53 -1.86	57.25 1.50 -2.05	65.63 2.42 -2.74	62.81 1.87 -2.58	52.02 1.13 -1.72	45.84 0.65 -1.74	38.79 -0.27 -0.75	37.15 1.04 -1.35
TEMPLE___115KV_TB 2 55572	35.79 -0.03 -2.19	32.13 -0.03 -2.36	30.17 -0.03 -0.46	29.07 -0.06 -0.70	29.75 -0.03 -0.67	32.35 -0.03 -1.09	43.24 -0.20 -3.28	47.17 -0.26 -3.36	44.43 -0.25 -3.41	41.47 -0.34 -4.03	38.89 -0.22 -2.33	38.77 -0.29 -2.24	40.61 -0.23 -2.23	42.14 -0.08 -2.42	43.76 -0.04 -2.72	47.91 0.00 -3.60	52.83 0.00 -4.79	59.72 0.21 -5.81	67.55 0.36 -6.72	64.53 0.35 -5.82	53.99 0.25 -4.57	48.33 0.00 -4.88	41.45 -0.19 -3.33	38.44 0.00 -3.69
TIANA___69_KV_BK 1 55817	35.47 1.41 -0.42	31.05 1.07 -0.18	30.47 0.57 -0.17	28.94 0.51 0.00	29.87 0.73 -0.03	32.16 0.69 -0.17	42.19 1.33 -0.70	46.19 1.10 -1.01	44.22 1.94 -1.02	42.15 2.61 -1.76	40.57 3.09 -0.71	40.94 3.31 -0.79	42.90 3.24 -1.04	43.40 2.67 -0.94	44.04 1.93 -1.03	47.30 1.82 -1.18	50.60 1.63 -0.93	55.32 1.34 -0.28	62.58 1.33 -0.78	60.05 1.05 -0.64	50.51 0.89 -0.45	45.51 1.13 -0.93	41.44 2.45 -0.67	37.02 1.88 -0.38



TILDEN___115KV_TB1 80814	35.57 -0.03 -1.97	31.89 -0.03 -2.13	30.12 -0.03 -0.41	28.97 -0.09 -0.63	29.65 -0.06 -0.60	32.25 -0.03 -0.98	43.20 -0.20 -3.24	47.28 -0.22 -3.43	44.47 -0.25 -3.45	41.57 -0.34 -4.12	39.16 -0.22 -2.61	39.03 -0.29 -2.50	40.85 -0.23 -2.47	42.23 -0.12 -2.55	43.87 -0.04 -2.83	48.00 0.00 -3.69	53.19 0.05 -5.10	59.89 0.21 -5.98	67.98 0.42 -7.09	64.99 0.41 -6.22	54.23 0.30 -4.77	48.55 0.04 -5.05	41.44 -0.15 -3.29	38.59 0.00 -3.83
TRIGEN___CC 323695	35.64 1.58 -0.42	31.22 1.25 -0.18	30.83 0.92 -0.17	29.28 0.85 0.00	30.19 1.05 -0.03	32.57 1.10 -0.17	42.67 1.81 -0.70	46.90 1.81 -1.02	44.60 2.31 -1.02	42.34 2.80 -1.76	40.61 3.13 -0.71	40.87 3.24 -0.80	42.86 3.20 -1.04	43.48 2.75 -0.94	44.37 2.26 -1.03	47.66 2.17 -1.18	51.04 2.07 -0.93	55.80 1.83 -0.28	63.07 1.81 -0.78	60.63 1.63 -0.64	51.00 1.38 -0.45	45.77 1.39 -0.93	41.28 2.30 -0.67	36.95 1.81 -0.38
TRINITY__115KV__4 BK 55933	33.66 0.34 0.32	29.96 0.30 0.13	29.97 0.36 0.13	28.79 0.37 0.00	29.44 0.35 0.02	31.54 0.38 0.13	40.04 0.40 0.53	43.79 0.48 0.77	40.91 0.41 0.77	36.84 0.38 1.32	36.39 0.15 0.53	36.42 0.18 0.59	37.94 0.12 0.79	39.16 0.08 0.71	40.35 0.04 0.77	43.51 0.09 0.88	47.48 0.14 0.70	53.70 0.21 0.22	60.00 0.12 0.59	58.05 0.18 0.48	48.98 0.15 0.34	42.96 0.22 0.70	38.11 0.31 0.51	34.67 0.21 0.29
UNION___PROCESSING_DRP 323587	33.94 0.30 0.00	30.15 0.36 0.00	29.95 0.21 0.00	28.54 0.11 0.00	29.26 0.15 0.00	31.55 0.25 0.00	40.82 -0.08 -0.74	44.54 -0.44 -0.91	41.63 -0.54 -0.90	38.44 -0.53 -1.18	37.85 -0.07 -1.15	37.52 -0.41 -1.10	39.47 -0.19 -1.05	40.98 0.32 -0.87	42.58 0.62 -0.88	45.73 0.35 -1.06	50.55 0.67 -1.83	57.06 1.34 -2.02	65.17 2.00 -2.70	62.48 1.58 -2.54	52.04 1.18 -1.69	45.90 0.74 -1.71	39.09 0.04 -0.74	36.78 0.70 -1.33
UPPER HUDSON___HYD 24058	34.53 1.31 0.42	30.69 1.07 0.18	30.70 1.13 0.17	29.53 1.11 0.00	30.19 1.11 0.03	32.41 1.28 0.17	40.95 1.49 0.70	44.59 1.54 1.02	40.58 0.33 1.02	36.18 0.15 1.76	35.55 -0.51 0.71	35.38 -0.66 0.79	36.91 -0.66 1.04	38.29 -0.56 0.94	39.60 -0.45 1.03	43.09 -0.04 1.18	47.73 0.62 0.94	55.24 1.83 0.29	62.16 2.48 0.78	60.17 2.45 0.64	50.69 1.97 0.46	44.12 1.61 0.94	39.17 1.53 0.67	35.48 1.11 0.38
UPPER RAQUET___HYD 24056	108.09 0.24 -74.21	110.17 0.18 -80.20	45.35 0.12 -15.49	52.26 0.11 -23.72	51.87 0.12 -22.64	68.33 0.16 -36.87	107.05 0.16 -66.72	104.93 0.27 -60.59	103.90 0.21 -62.43	104.97 0.23 -66.95	48.26 0.15 -11.34	48.20 0.15 -11.23	52.74 0.12 -14.01	70.95 0.12 -31.04	81.31 0.12 -40.10	103.80 0.18 -59.32	102.60 0.24 -54.32	128.73 0.27 -74.77	125.17 0.30 -64.40	102.56 0.41 -43.79	102.31 0.30 -52.84	105.80 0.35 -62.00	107.03 0.27 -68.45	79.66 0.24 -44.66
VALLEY44_115KV_TB2 355964	33.81 0.17 0.00	30.15 0.36 0.00	29.89 0.15 0.00	28.20 -0.23 0.00	29.11 0.00 0.00	31.42 0.13 0.00	40.59 -0.36 -0.79	44.12 -0.93 -0.97	40.79 -1.44 -0.96	37.99 -1.06 -1.26	37.67 -0.33 -1.23	37.23 -0.77 -1.17	39.11 -0.62 -1.12	40.68 -0.04 -0.93	42.81 0.78 -0.94	45.36 -0.09 -1.13	50.19 0.19 -1.96	56.77 0.91 -2.16	64.94 1.57 -2.90	62.07 0.99 -2.72	51.33 0.34 -1.81	45.46 0.17 -1.83	38.49 -0.61 -0.79	36.81 0.63 -1.43
VALLEY___115KV_TB 1-4 80826	35.69 0.27 -1.78	31.93 0.21 -1.92	30.32 0.21 -0.37	29.16 0.17 -0.57	29.83 0.17 -0.54	32.43 0.25 -0.88	42.12 0.36 -1.59	45.96 0.44 -1.45	43.13 0.37 -1.49	39.68 0.30 -1.60	37.33 0.29 -0.26	37.42 0.33 -0.26	39.28 0.35 -0.33	40.81 0.28 -0.74	42.28 0.25 -0.95	46.12 0.40 -1.41	49.76 0.43 -1.29	55.90 0.43 -1.77	62.47 0.48 -1.52	59.97 0.58 -1.03	50.82 0.39 -1.25	45.31 0.39 -1.47	40.25 0.31 -1.63	36.06 0.24 -1.06
VINEGAR_115_KV_917_CH_LD_REV_LBMP_E 345011	34.88 1.24 0.00	30.87 1.07 0.00	30.87 1.13 0.00	29.45 1.02 0.00	30.19 1.08 0.00	32.49 1.19 0.00	42.25 1.61 -0.48	46.51 1.85 -0.59	43.50 1.65 -0.59	39.91 1.36 -0.77	38.81 1.29 -0.75	38.87 1.33 -0.71	40.68 1.39 -0.68	41.71 1.35 -0.56	43.01 1.36 -0.58	46.64 1.64 -0.69	51.11 1.87 -1.19	57.12 2.09 -1.32	64.66 2.42 -1.77	62.65 2.63 -1.67	52.35 2.07 -1.11	46.48 1.91 -1.12	40.41 1.61 -0.48	37.05 1.42 -0.87
VISCHER___FERRY HYD 24020	34.09 0.98 0.52	30.41 0.83 0.22	30.37 0.83 0.21	29.28 0.85 0.00	29.92 0.84 0.04	32.02 0.94 0.21	40.62 1.32 0.87	44.31 1.50 1.26	41.20 1.20 1.26	36.66 1.06 2.18	36.59 0.70 0.88	36.55 0.70 0.97	38.01 0.70 1.29	39.26 0.63 1.17	40.55 0.74 1.27	43.74 0.89 1.45	48.04 1.15 1.16	54.79 1.45 0.35	61.13 1.63 0.97	59.14 1.58 0.80	49.94 1.33 0.56	43.51 1.21 1.16	38.63 1.15 0.83	35.15 0.87 0.48
V_A_10_SYNC_DSASP 323832	33.67 0.03 0.00	30.01 0.21 0.00	29.74 0.00 0.00	28.25 -0.17 0.00	29.00 -0.12 0.00	31.21 -0.09 0.00	39.91 -0.96 -0.71	43.18 -1.76 -0.87	40.28 -1.86 -0.87	37.49 -1.44 -1.14	37.22 -0.66 -1.11	36.67 -1.22 -1.06	38.62 -1.00 -1.01	40.27 -0.36 -0.84	42.18 0.25 -0.85	44.80 -0.53 -1.02	49.57 -0.24 -1.77	56.19 0.54 -1.95	64.23 1.15 -2.62	61.52 0.70 -2.46	51.01 0.20 -1.64	45.06 -0.04 -1.66	38.18 -0.84 -0.71	36.60 0.56 -1.29
V_CMM_10_SYNC_DSASP 323787	22.15 -0.17 11.32	17.42 -0.15 12.23	27.23 -0.15 2.36	24.69 -0.11 3.62	25.54 -0.12 3.45	25.52 -0.16 5.62	29.88 -0.16 10.13	34.75 -0.13 9.19	31.72 -0.08 9.47	27.61 -0.04 10.14	35.04 -0.07 1.66	35.11 -0.07 1.65	36.42 -0.12 2.07	34.99 -0.12 4.68	34.90 -0.12 6.06	35.19 -0.13 8.98	39.72 -0.14 8.17	42.15 -0.27 11.28	50.45 -0.36 9.66	51.49 -0.35 6.52	40.97 -0.25 7.95	33.93 -0.17 9.35	27.77 -0.15 10.39	27.85 -0.17 6.73
V_CMP_10_SYNC_DSASP 323788	40.53 1.25 -5.65	37.06 1.16 -6.10	32.08 1.16 -1.18	31.40 1.17 -1.81	32.06 1.22 -1.72	35.42 1.31 -2.81	45.98 0.76 -5.05	49.10 0.44 -4.58	46.53 0.54 -4.72	44.06 1.21 -5.06	38.74 1.14 -0.83	38.75 1.10 -0.82	40.69 1.04 -1.04	43.24 1.11 -2.34	45.30 1.19 -3.03	49.37 0.57 -4.48	52.75 0.62 -4.08	60.02 0.70 -5.63	65.95 0.67 -4.82	62.03 0.41 -3.25	53.53 0.39 -3.97	48.46 0.35 -4.67	44.30 0.81 -5.19	39.43 1.32 -3.36
V_D_10_SYNC_DSASP 323841	141.78 0.03 -108.11	146.66 0.03 -116.83	52.34 0.03 -22.57	63.04 0.06 -34.56	62.15 0.06 -32.98	85.05 0.03 -53.72	136.94 0.00 -96.77	131.84 0.00 -87.76	131.75 0.04 -90.44	134.77 0.11 -96.87	52.71 0.07 -15.87	52.64 0.07 -15.74	58.43 0.00 -19.82	84.53 0.00 -44.73	99.01 0.00 -57.93	130.08 -0.04 -85.82	126.09 -0.05 -78.10	161.34 -0.11 -107.75	152.59 -0.12 -92.24	120.50 -0.17 -62.31	125.07 -0.10 -75.99	132.78 0.00 -89.33	137.60 0.00 -99.29	99.07 0.03 -64.28
V_E_10_SYNC_DSASP 323830	35.86 2.22 0.00	31.68 1.88 0.00	31.67 1.93 0.00	30.02 1.59 0.00	30.95 1.84 0.00	33.55 2.25 0.00	44.16 3.05 -0.94	48.89 3.66 -1.16	45.39 2.97 -1.15	41.33 2.04 -1.51	40.08 1.84 -1.47	40.07 1.84 -1.40	41.95 2.01 -1.34	43.09 2.19 -1.11	44.39 2.18 -1.13	48.72 3.05 -1.36	54.03 3.65 -2.34	60.95 4.67 -2.59	69.80 5.86 -3.46	67.86 6.25 -3.25	56.06 4.72 -2.16	49.55 3.91 -2.19	42.25 2.99 -0.95	39.13 2.68 -1.70



V_F_30_NSYNC___DSASP 323816	34.63 1.41 0.42	30.82 1.19 0.17	30.80 1.22 0.17	29.62 1.19 0.00	30.28 1.19 0.03	32.47 1.34 0.17	41.20 1.73 0.69	44.87 1.81 1.02	41.33 1.07 1.01	36.91 0.87 1.75	36.40 0.33 0.70	36.31 0.26 0.78	37.88 0.31 1.04	39.25 0.40 0.94	40.51 0.45 1.02	43.94 0.80 1.17	48.41 1.30 0.93	55.51 2.09 0.28	62.29 2.60 0.78	60.28 2.56 0.64	50.83 2.11 0.45	44.34 1.82 0.93	39.33 1.68 0.67	35.66 1.29 0.38
V_F_30_SYNC_DSASP 323786	33.72 0.40 0.33	30.05 0.39 0.14	30.06 0.45 0.13	28.88 0.45 0.00	29.50 0.41 0.02	31.60 0.44 0.13	40.11 0.48 0.54	43.86 0.57 0.79	40.94 0.45 0.78	36.84 0.42 1.36	36.37 0.15 0.55	36.41 0.18 0.61	37.92 0.12 0.81	39.15 0.08 0.73	40.37 0.08 0.79	43.58 0.18 0.91	47.56 0.24 0.72	53.85 0.38 0.22	60.29 0.42 0.60	58.27 0.41 0.50	49.22 0.39 0.35	43.12 0.39 0.72	38.25 0.46 0.52	34.74 0.28 0.30
V_XM_10_SYNC_DSASP 323789	40.53 1.25 -5.65	37.06 1.16 -6.10	32.08 1.16 -1.18	31.40 1.17 -1.81	32.06 1.22 -1.72	35.42 1.31 -2.81	45.98 0.76 -5.05	49.10 0.44 -4.58	46.53 0.54 -4.72	44.06 1.21 -5.06	38.74 1.14 -0.83	38.75 1.10 -0.82	40.69 1.04 -1.04	43.24 1.11 -2.34	45.30 1.19 -3.03	49.37 0.57 -4.48	52.75 0.62 -4.08	60.02 0.70 -5.63	65.95 0.67 -4.82	62.03 0.41 -3.25	53.53 0.39 -3.97	48.46 0.35 -4.67	44.30 0.81 -5.19	39.43 1.32 -3.36
W.BABYLN_69_KV_BK1 56697	36.11 2.05 -0.42	31.58 1.61 -0.18	31.07 1.16 -0.17	29.48 1.05 0.00	30.45 1.31 -0.03	32.82 1.35 -0.17	43.07 2.21 -0.70	47.16 2.07 -1.01	45.05 2.76 -1.02	42.87 3.33 -1.76	41.27 3.79 -0.71	41.60 3.98 -0.80	43.59 3.94 -1.04	44.12 3.38 -0.94	44.86 2.75 -1.03	48.05 2.57 -1.18	51.47 2.50 -0.93	56.23 2.26 -0.28	63.61 2.36 -0.78	61.10 2.10 -0.64	51.39 1.77 -0.45	46.16 1.78 -0.93	41.97 2.99 -0.67	37.50 2.36 -0.38
W.NYACK_69_KV_BK 521_REV_LBMP_G 345027	35.53 1.51 -0.38	31.30 1.34 -0.16	31.11 1.22 -0.15	29.59 1.17 0.00	30.42 1.28 -0.03	32.83 1.38 -0.16	42.89 2.09 -0.64	47.47 2.47 -0.93	44.67 2.48 -0.93	41.84 2.46 -1.60	39.96 2.54 -0.65	40.23 2.69 -0.72	42.34 2.78 -0.95	43.24 2.59 -0.86	44.57 2.55 -0.94	48.04 2.66 -1.07	51.44 2.55 -0.85	56.54 2.58 -0.26	63.72 2.54 -0.71	61.40 2.45 -0.59	51.65 2.07 -0.42	46.21 1.91 -0.85	40.99 2.07 -0.61	36.77 1.67 -0.35
W49TH_ST_138_KV_38M43_REV_LBMP_J 345008	35.67 1.61 -0.42	31.34 1.37 -0.18	31.16 1.25 -0.17	29.62 1.19 0.00	30.48 1.34 -0.03	32.91 1.44 -0.17	43.15 2.29 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.46 2.91 -1.76	40.50 3.02 -0.71	40.82 3.20 -0.79	42.90 3.24 -1.04	43.80 3.06 -0.94	45.11 3.00 -1.03	48.50 3.01 -1.18	51.96 2.98 -0.93	56.88 2.90 -0.29	64.15 2.90 -0.78	61.75 2.74 -0.64	51.94 2.31 -0.46	46.60 2.22 -0.94	41.21 2.22 -0.67	36.91 1.77 -0.38
W50THST__13_KV_LOAD 356117	35.81 1.75 -0.42	31.46 1.49 -0.18	31.31 1.40 -0.17	29.73 1.31 0.00	30.60 1.46 -0.03	33.07 1.60 -0.17	43.35 2.49 -0.70	48.09 3.00 -1.02	45.46 3.18 -1.02	42.68 3.14 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.08 3.34 -0.94	45.40 3.29 -1.03	48.76 3.28 -1.18	52.29 3.31 -0.93	57.26 3.28 -0.29	64.52 3.27 -0.78	62.10 3.09 -0.64	52.24 2.61 -0.46	46.82 2.43 -0.94	41.40 2.41 -0.67	37.08 1.95 -0.38
WADING RIVER_IC_1 23522	35.10 1.04 -0.42	30.72 0.75 -0.18	30.12 0.21 -0.17	28.62 0.20 0.00	29.52 0.38 -0.03	31.85 0.38 -0.17	41.87 1.00 -0.70	45.84 0.75 -1.01	43.89 1.61 -1.02	41.89 2.34 -1.76	40.06 2.57 -0.71	40.53 2.91 -0.79	41.93 2.28 -1.04	42.73 1.99 -0.94	43.80 1.69 -1.03	47.03 1.55 -1.18	50.70 1.73 -0.93	55.11 1.13 -0.28	62.04 0.78 -0.78	59.64 0.64 -0.64	50.26 0.64 -0.45	45.25 0.87 -0.93	41.01 2.03 -0.67	36.63 1.49 -0.38
WADING RIVER_IC_2 23547	35.10 1.04 -0.42	30.72 0.75 -0.18	30.12 0.21 -0.17	28.62 0.20 0.00	29.52 0.38 -0.03	31.85 0.38 -0.17	41.87 1.00 -0.70	45.84 0.75 -1.01	43.89 1.61 -1.02	41.89 2.34 -1.76	40.06 2.57 -0.71	40.53 2.91 -0.79	41.93 2.28 -1.04	42.73 1.99 -0.94	43.80 1.69 -1.03	47.03 1.55 -1.18	50.70 1.73 -0.93	55.11 1.13 -0.28	62.04 0.78 -0.78	59.64 0.64 -0.64	50.26 0.64 -0.45	45.25 0.87 -0.93	41.01 2.03 -0.67	36.63 1.49 -0.38
WADING RIVER_IC_3 23601	35.10 1.04 -0.42	30.72 0.75 -0.18	30.12 0.21 -0.17	28.62 0.20 0.00	29.52 0.38 -0.03	31.85 0.38 -0.17	41.87 1.00 -0.70	45.84 0.75 -1.01	43.89 1.61 -1.02	41.89 2.34 -1.76	40.06 2.57 -0.71	40.53 2.91 -0.79	41.93 2.28 -1.04	42.73 1.99 -0.94	43.80 1.69 -1.03	47.03 1.55 -1.18	50.70 1.73 -0.93	55.11 1.13 -0.28	62.04 0.78 -0.78	59.64 0.64 -0.64	50.26 0.64 -0.45	45.25 0.87 -0.93	41.01 2.03 -0.67	36.63 1.49 -0.38
WALDENNY_12_KV_BK2 80841	34.18 0.54 0.00	30.48 0.69 0.00	30.22 0.48 0.00	28.62 0.20 0.00	29.37 0.26 0.00	31.67 0.38 0.00	40.45 -0.48 -0.77	43.87 -1.15 -0.94	40.76 -1.44 -0.94	38.03 -0.98 -1.23	37.82 -0.15 -1.20	37.31 -0.66 -1.14	39.20 -0.50 -1.09	40.97 0.28 -0.90	43.07 1.07 -0.92	45.68 0.27 -1.10	50.62 0.67 -1.91	57.36 1.56 -2.11	65.77 2.48 -2.82	62.94 1.93 -2.65	51.97 1.03 -1.76	45.84 0.61 -1.79	38.74 -0.34 -0.77	37.22 1.08 -1.39
WALDEN___HYDRO 24148	35.31 1.35 -0.33	31.13 1.19 -0.14	31.00 1.13 -0.13	29.50 1.08 0.00	30.27 1.14 -0.02	32.69 1.25 -0.14	42.56 1.85 -0.55	46.99 2.12 -0.80	44.17 2.10 -0.80	41.21 2.04 -1.38	39.43 2.10 -0.56	39.65 2.21 -0.62	41.71 2.28 -0.82	42.64 2.11 -0.74	43.98 2.10 -0.81	47.40 2.17 -0.92	50.89 2.11 -0.73	56.07 2.15 -0.22	63.26 2.18 -0.61	60.97 2.10 -0.50	51.35 1.82 -0.36	45.83 1.65 -0.73	40.64 1.80 -0.53	36.51 1.46 -0.30
WARRENSBURG____ 23737	34.56 1.35 0.42	30.69 1.07 0.18	30.82 1.25 0.17	29.53 1.11 0.00	30.19 1.11 0.03	32.44 1.31 0.17	40.95 1.49 0.70	44.55 1.50 1.02	40.54 0.29 1.02	36.14 0.11 1.76	35.55 -0.51 0.71	35.41 -0.63 0.79	36.91 -0.66 1.04	38.33 -0.52 0.94	39.52 -0.53 1.03	43.04 -0.09 1.18	47.64 0.53 0.94	55.13 1.72 0.29	62.04 2.36 0.78	60.11 2.39 0.64	50.64 1.92 0.46	44.03 1.52 0.94	39.17 1.53 0.67	35.48 1.11 0.38
WATERSIDE___6 8 9 23538	35.82 1.75 -0.43	31.47 1.49 -0.18	31.28 1.37 -0.17	29.68 1.25 0.00	30.57 1.43 -0.03	32.91 1.44 -0.17	43.15 2.29 -0.70	47.83 2.73 -1.02	45.21 2.93 -1.02	42.49 2.95 -1.76	40.53 3.05 -0.71	40.89 3.28 -0.79	42.94 3.28 -1.04	43.84 3.10 -0.94	45.11 3.00 -1.03	48.41 2.92 -1.18	51.86 2.88 -0.93	56.67 2.68 -0.29	63.91 2.66 -0.78	61.46 2.45 -0.64	51.79 2.16 -0.46	46.47 2.09 -0.94	41.21 2.22 -0.67	36.95 1.81 -0.38
WATKINRD_115KV_LN8_ILLION 55919	35.62 0.20 -1.78	31.90 0.18 -1.92	30.29 0.18 -0.37	29.14 0.14 -0.57	29.80 0.15 -0.54	32.37 0.19 -0.88	42.04 0.28 -1.59	45.87 0.35 -1.45	43.04 0.29 -1.49	39.65 0.26 -1.60	37.26 0.22 -0.26	37.34 0.26 -0.26	39.21 0.27 -0.33	40.77 0.24 -0.74	42.24 0.21 -0.95	46.03 0.31 -1.41	49.67 0.34 -1.29	55.85 0.38 -1.77	62.41 0.42 -1.52	59.85 0.47 -1.03	50.77 0.34 -1.25	45.27 0.35 -1.47	40.22 0.27 -1.63	36.02 0.21 -1.06



WDELAWARE___HYD 323627	35.76 1.88 -0.24	31.59 1.70 -0.10	31.44 1.60 -0.09	30.02 1.59 0.00	30.70 1.57 -0.02	33.12 1.72 -0.10	43.13 2.57 -0.39	47.60 2.95 -0.57	44.56 2.72 -0.57	41.23 2.45 -0.99	39.60 2.43 -0.40	39.74 2.47 -0.44	41.47 2.28 -0.59	42.47 2.15 -0.53	43.88 2.22 -0.58	47.49 2.52 -0.66	51.07 2.50 -0.53	56.60 2.74 -0.16	63.75 2.84 -0.44	61.64 2.92 -0.36	51.84 2.41 -0.26	46.10 2.13 -0.53	40.76 2.07 -0.38	36.67 1.70 -0.22
WEST BABYLON___IC 23714	36.11 2.05 -0.42	31.58 1.61 -0.18	31.07 1.16 -0.17	29.48 1.05 0.00	30.45 1.31 -0.03	32.82 1.35 -0.17	43.07 2.21 -0.70	47.16 2.07 -1.01	45.05 2.76 -1.02	42.87 3.33 -1.76	41.27 3.79 -0.71	41.60 3.98 -0.80	43.59 3.94 -1.04	44.12 3.38 -0.94	44.86 2.75 -1.03	48.05 2.57 -1.18	51.47 2.50 -0.93	56.23 2.26 -0.28	63.61 2.36 -0.78	61.10 2.10 -0.64	51.39 1.77 -0.45	46.16 1.78 -0.93	41.97 2.99 -0.67	37.50 2.36 -0.38
WEST CANADA___HYD 24049	35.55 0.14 -1.78	31.84 0.12 -1.92	30.23 0.12 -0.37	29.11 0.11 -0.57	29.77 0.12 -0.54	32.31 0.13 -0.88	41.96 0.20 -1.59	45.78 0.27 -1.45	42.96 0.21 -1.49	39.57 0.19 -1.60	37.18 0.15 -0.26	37.27 0.19 -0.26	39.13 0.19 -0.33	40.69 0.16 -0.74	42.20 0.16 -0.95	45.95 0.22 -1.41	49.57 0.24 -1.29	55.74 0.27 -1.77	62.29 0.30 -1.52	59.74 0.35 -1.03	50.67 0.25 -1.25	45.18 0.26 -1.47	40.14 0.19 -1.63	35.95 0.14 -1.06
WESTERN_NY_WIND 24143	34.85 1.21 0.00	31.11 1.31 0.00	30.78 1.04 0.00	29.25 0.82 0.00	29.99 0.87 0.00	32.43 1.13 0.00	41.35 0.44 -0.75	44.90 -0.09 -0.92	41.77 -0.41 -0.91	38.53 -0.45 -1.19	38.20 0.26 -1.16	37.68 -0.26 -1.11	39.71 0.04 -1.06	41.55 0.88 -0.88	43.46 1.48 -0.89	46.36 0.97 -1.08	51.44 1.54 -1.85	58.43 2.68 -2.05	67.14 3.93 -2.74	64.20 3.27 -2.58	53.25 2.36 -1.71	46.88 1.69 -1.74	39.64 0.57 -0.75	37.77 1.67 -1.35
WESTOVER___LESR 323668	34.07 0.44 0.00	30.24 0.45 0.00	30.16 0.42 0.00	28.71 0.28 0.00	29.49 0.38 0.00	31.74 0.44 0.00	41.55 0.44 -0.94	45.53 0.31 -1.15	42.53 0.12 -1.14	39.39 0.11 -1.49	38.52 0.29 -1.46	38.36 0.15 -1.39	40.17 0.23 -1.33	41.33 0.44 -1.10	42.90 0.70 -1.12	46.27 0.62 -1.34	51.08 0.72 -2.32	57.35 1.07 -2.58	65.31 1.39 -3.45	62.89 1.28 -3.24	52.26 0.93 -2.16	46.29 0.65 -2.18	39.56 0.31 -0.94	37.11 0.66 -1.70
WETHRSFD_WT_PWR 323626	34.11 0.47 0.00	30.30 0.51 0.00	30.04 0.30 0.00	28.54 0.11 0.00	29.17 0.06 0.00	31.64 0.34 0.00	40.68 -0.32 -0.84	44.22 -0.88 -1.03	41.05 -1.24 -1.02	38.06 -1.06 -1.34	37.71 -0.37 -1.30	37.37 -0.70 -1.24	39.22 -0.58 -1.19	41.13 0.36 -0.98	42.41 0.33 -1.00	45.56 0.04 -1.20	50.26 0.14 -2.08	57.01 1.02 -2.29	65.60 2.06 -3.07	62.88 1.63 -2.89	52.17 1.08 -1.92	46.09 0.69 -1.94	39.23 0.08 -0.84	37.27 1.01 -1.51
WHAVSTOR_138KV_BK127 55557	35.30 1.28 -0.39	31.09 1.13 -0.16	30.93 1.04 -0.15	29.39 0.97 0.00	30.24 1.11 -0.03	32.65 1.19 -0.16	42.65 1.85 -0.64	47.17 2.16 -0.93	44.42 2.23 -0.93	41.62 2.23 -1.61	39.74 2.32 -0.65	40.01 2.47 -0.72	42.07 2.51 -0.95	43.00 2.35 -0.86	44.32 2.30 -0.94	47.73 2.35 -1.07	51.16 2.26 -0.85	56.16 2.20 -0.26	63.36 2.18 -0.72	60.99 2.04 -0.59	51.31 1.72 -0.42	45.96 1.65 -0.86	40.77 1.84 -0.61	36.56 1.46 -0.35
WHAVSTOR_138_KV_BK127_REV_LBMP_G 345015	35.30 1.28 -0.39	31.09 1.13 -0.16	30.93 1.04 -0.15	29.39 0.97 0.00	30.24 1.11 -0.03	32.65 1.19 -0.16	42.65 1.85 -0.64	47.17 2.16 -0.93	44.42 2.23 -0.93	41.62 2.23 -1.61	39.74 2.32 -0.65	40.01 2.47 -0.72	42.07 2.51 -0.95	43.00 2.35 -0.86	44.32 2.30 -0.94	47.73 2.35 -1.07	51.16 2.26 -0.85	56.16 2.20 -0.26	63.36 2.18 -0.72	60.99 2.04 -0.59	51.31 1.72 -0.42	45.96 1.65 -0.86	40.77 1.84 -0.61	36.56 1.46 -0.35
WHITEHAL_115KV_TB1 80871	35.23 2.02 0.43	31.26 1.64 0.18	31.42 1.84 0.17	30.10 1.68 0.00	30.74 1.66 0.03	33.09 1.97 0.18	41.79 2.33 0.71	45.37 2.34 1.04	41.06 0.83 1.03	36.57 0.57 1.79	35.87 -0.18 0.72	35.74 -0.29 0.80	37.24 -0.31 1.06	38.72 -0.12 0.96	40.00 -0.04 1.04	43.65 0.53 1.19	48.44 1.35 0.95	56.36 2.95 0.29	63.60 3.93 0.80	61.62 3.91 0.65	51.86 3.15 0.46	45.06 2.56 0.95	40.00 2.38 0.68	36.17 1.81 0.39
WHITEPLN_13_KV_LOAD 356215	35.77 1.72 -0.42	31.49 1.52 -0.18	31.33 1.43 -0.17	29.76 1.34 0.00	30.60 1.46 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.13 3.04 -1.02	45.54 3.26 -1.02	42.83 3.29 -1.76	40.86 3.38 -0.71	41.18 3.57 -0.78	43.28 3.63 -1.04	44.24 3.50 -0.94	45.56 3.45 -1.03	48.94 3.46 -1.17	52.53 3.56 -0.93	57.26 3.28 -0.29	64.64 3.39 -0.78	62.33 3.33 -0.64	52.38 2.75 -0.46	46.86 2.48 -0.93	41.40 2.41 -0.67	37.08 1.95 -0.38
WM_FLOYD_69_KV_BK2 356380	35.47 1.41 -0.42	31.02 1.04 -0.18	30.47 0.57 -0.17	28.94 0.51 0.00	29.87 0.73 -0.03	32.19 0.72 -0.17	42.23 1.37 -0.70	46.23 1.15 -1.01	44.22 1.94 -1.02	42.12 2.57 -1.76	40.53 3.05 -0.71	40.86 3.24 -0.79	42.82 3.17 -1.04	43.32 2.59 -0.94	43.96 1.85 -1.03	47.21 1.73 -1.18	50.51 1.54 -0.93	55.27 1.29 -0.28	62.46 1.21 -0.78	59.99 0.99 -0.64	50.46 0.84 -0.45	45.42 1.04 -0.93	41.40 2.41 -0.67	36.95 1.81 -0.38
WOODARD___115KV_TB2 355635	35.62 -0.10 -2.08	31.96 -0.09 -2.25	30.09 -0.09 -0.43	28.98 -0.11 -0.67	29.66 -0.09 -0.64	32.24 -0.09 -1.04	43.37 -0.24 -3.45	47.38 -0.31 -3.62	44.63 -0.29 -3.66	41.78 -0.38 -4.37	39.27 -0.26 -2.75	39.13 -0.33 -2.64	40.95 -0.27 -2.61	42.33 -0.16 -2.70	43.99 -0.08 -2.99	48.13 -0.09 -3.90	53.39 -0.05 -5.39	60.22 0.11 -6.41	68.36 0.30 -7.59	65.32 0.29 -6.67	54.47 0.20 -5.10	48.81 -0.04 -5.40	41.62 -0.19 -3.50	38.82 -0.03 -4.10
WOODMERE_69_KV_BK1 55827	36.21 2.15 -0.42	31.70 1.73 -0.18	31.28 1.37 -0.17	29.68 1.25 0.00	30.63 1.48 -0.03	33.01 1.53 -0.17	43.31 2.45 -0.70	47.56 2.47 -1.02	44.88 2.60 -1.02	42.68 3.14 -1.76	41.05 3.57 -0.71	41.35 3.72 -0.80	43.36 3.71 -1.04	44.00 3.26 -0.94	44.82 2.71 -1.03	48.14 2.66 -1.18	51.57 2.59 -0.93	56.93 2.95 -0.28	64.34 3.08 -0.78	61.92 2.92 -0.64	52.03 2.41 -0.45	46.60 2.22 -0.93	42.01 3.03 -0.67	37.57 2.43 -0.38
YORK___WARBASSE 23770	36.05 1.98 -0.43	31.68 1.70 -0.18	31.49 1.58 -0.17	29.73 1.31 0.00	30.68 1.54 -0.03	33.04 1.56 -0.17	43.31 2.45 -0.70	48.00 2.91 -1.02	45.42 3.14 -1.02	42.65 3.10 -1.76	40.72 3.24 -0.71	41.07 3.46 -0.79	43.13 3.47 -1.04	44.04 3.30 -0.94	45.32 3.20 -1.03	48.67 3.19 -1.18	52.10 3.12 -0.93	56.88 2.90 -0.29	64.16 2.90 -0.78	61.69 2.68 -0.64	52.09 2.46 -0.46	46.73 2.35 -0.94	41.40 2.41 -0.67	37.12 1.98 -0.38