

# Day Ahead Market Generator LBMP

Generator Data		--- LBMP \$										--- Marginal Cost of Losses										--- Marginal Cost of Congestion										09/18/2025		
Name	PTID	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00									
59TH STREET_GT_1	24138	34.67	32.51	30.38	29.07	30.32	33.09	42.60	48.38	47.26	44.89	42.14	41.89	45.02	46.96	49.11	51.77	54.03	77.57	76.33	77.52	62.08	51.55	46.51	43.03									
		1.80	1.54	1.31	1.30	1.33	1.63	2.60	3.12	3.26	3.33	3.46	3.71	3.75	3.87	4.12	3.98	4.25	4.96	4.32	3.96	3.16	2.35	2.26	1.90									
		-0.23	-0.13	0.00	0.00	0.00	-0.13	-0.59	-0.67	-1.15	-1.51	-0.68	-0.75	-0.91	-1.07	-1.16	-2.04	-1.50	-2.75	-2.39	-2.76	-1.41	-1.24	-0.89	-0.71									
74TH STREET_GT_1	24260	34.70	32.54	30.38	29.07	30.32	33.06	42.56	48.33	47.21	44.85	42.10	41.85	44.94	46.92	49.07	51.72	53.98	77.50	76.33	77.52	62.02	51.55	46.47	43.03									
		1.83	1.57	1.31	1.30	1.33	1.60	2.56	3.08	3.21	3.28	3.42	3.67	3.67	3.82	4.08	3.93	4.20	4.89	4.32	3.96	3.11	2.35	2.21	1.90									
		-0.23	-0.13	0.00	0.00	0.00	-0.13	-0.59	-0.67	-1.15	-1.51	-0.68	-0.75	-0.91	-1.07	-1.16	-2.04	-1.50	-2.75	-2.39	-2.76	-1.41	-1.24	-0.89	-0.71									
74TH STREET_GT_2	24261	34.70	32.54	30.38	29.07	30.32	33.06	42.56	48.33	47.21	44.85	42.10	41.85	44.94	46.92	49.07	51.72	53.98	77.50	76.33	77.52	62.02	51.55	46.47	43.03									
		1.83	1.57	1.31	1.30	1.33	1.60	2.56	3.08	3.21	3.28	3.42	3.67	3.67	3.82	4.08	3.93	4.20	4.89	4.32	3.96	3.11	2.35	2.21	1.90									
		-0.23	-0.13	0.00	0.00	0.00	-0.13	-0.59	-0.67	-1.15	-1.51	-0.68	-0.75	-0.91	-1.07	-1.16	-2.04	-1.50	-2.75	-2.39	-2.76	-1.41	-1.24	-0.89	-0.71									
ADK HUDSON___FALLS	24011	33.75	31.79	30.20	28.85	30.14	32.53	40.26	45.77	42.61	39.07	37.31	36.50	38.93	40.76	42.65	44.16	47.91	74.28	75.04	77.51	58.12	48.43	43.84	40.53									
		1.34	1.08	1.13	1.08	1.16	1.35	1.46	1.87	0.94	0.56	0.00	-0.15	-0.48	-0.17	0.00	0.50	1.16	1.82	2.65	2.90	2.07	1.73	1.39	0.85									
		0.23	0.13	0.00	0.00	0.00	0.14	0.61	0.69	1.18	1.55	0.70	0.78	0.94	1.09	1.19	2.09	1.53	-2.60	-2.77	-3.82	1.45	1.27	0.91	0.73									
ADK RESOURCE___RCVRY	23798	33.89	31.89	30.26	28.93	30.23	32.63	40.34	45.86	42.58	38.97	37.24	36.43	38.82	40.65	42.57	44.13	48.02	74.34	75.24	77.76	58.36	48.63	43.94	40.66									
		1.47	1.17	1.19	1.17	1.25	1.44	1.54	1.96	0.90	0.44	-0.08	-0.22	-0.60	-0.29	-0.09	0.46	1.25	1.95	2.92	3.26	2.30	1.92	1.48	0.97									
		0.23	0.13	0.00	0.00	0.00	0.14	0.60	0.68	1.17	1.53	0.69	0.77	0.93	1.08	1.18	2.08	1.52	-2.52	-2.69	-3.71	1.44	1.26	0.91	0.73									
ADK S GLENS___FALLS	24028	33.75	31.79	30.20	28.85	30.14	32.53	40.26	45.77	42.61	39.07	37.31	36.50	38.93	40.76	42.65	44.16	47.91	74.28	75.04	77.51	58.12	48.43	43.84	40.53									
		1.34	1.08	1.13	1.08	1.16	1.35	1.46	1.87	0.94	0.56	0.00	-0.15	-0.48	-0.17	0.00	0.50	1.16	1.82	2.65	2.90	2.07	1.73	1.39	0.85									
		0.23	0.13	0.00	0.00	0.00	0.14	0.61	0.69	1.18	1.55	0.70	0.78	0.94	1.09	1.19	2.09	1.53	-2.60	-2.77	-3.82	1.45	1.27	0.91	0.73									
ADK_NYS___DAM	23527	33.21	31.47	29.85	28.63	29.85	32.01	39.76	45.10	42.21	38.58	37.91	37.22	39.72	41.16	42.92	43.29	47.20	73.72	73.85	75.95	56.18	46.65	42.58	39.57									
		1.04	0.90	0.79	0.86	0.87	0.97	1.62	1.96	1.84	1.76	1.37	1.42	1.33	1.43	1.58	1.92	2.12	2.51	2.37	2.20	1.72	1.34	1.13	0.69									
		0.49	0.27	0.00	0.00	0.00	0.29	1.27	1.44	2.48	3.24	1.46	1.62	1.97	2.29	2.49	4.38	3.21	-1.34	-1.85	-2.96	3.04	2.66	1.92	1.53									
AIR_PRODUCTS___DRP	24190	32.46	30.66	29.07	27.88	29.01	31.26	39.04	44.39	42.21	39.17	37.49	36.90	39.35	40.98	42.81	44.19	47.14	62.99	63.10	62.72	55.82	46.48	42.18	39.19									
		-0.03	-0.09	0.00	0.11	0.03	0.03	0.04	0.27	0.17	0.16	-0.04	0.00	-0.36	-0.29	-0.22	-0.14	-0.10	-0.70	-0.77	-0.92	-0.69	-0.62	-0.56	-0.73									
		0.16	0.09	0.00	0.00	0.00	0.09	0.41	0.47	0.81	1.05	0.47	0.53	0.64	0.74	0.81	1.42	1.04	6.18	5.77	7.15	0.99	0.86	0.62	0.50									
AKWESSNE_115KV_BK	355683	25.53	23.52	21.56	24.45	25.22	25.48	32.91	38.63	40.18	39.75	37.96	36.42	40.32	41.90	43.66	45.43	47.99	69.36	67.53	68.83	53.90	43.28	38.18	38.45									
		-0.16	-0.19	-0.17	-0.17	-0.20	-0.22	-0.20	-0.22	-0.04	0.00	-0.04	-0.15	-0.04	-0.13	-0.18	-0.32	-0.29	0.63	0.77	0.78	0.69	0.58	0.48	0.53									
		6.95	7.14	7.33	3.14	3.56	5.63	6.30	5.73	2.62	0.31	0.00	0.85	0.00	0.00	0.00	0.00	0.00	1.13	2.86	2.74	4.29	5.27	5.66	2.49									
ALBANY_1_SOLAR	323833	33.45	31.60	29.79	28.54	29.73	32.19	40.31	45.70	43.28	40.08	38.01	37.36	39.73	40.83	42.70	44.57	47.54	66.08	66.40	66.83	56.97	47.51	42.94	40.50									
		0.88	0.80	0.73	0.78	0.75	0.91	1.10	1.34	0.81	0.52	0.23	0.19	-0.32	-0.84	-0.75	-0.50	-0.24	-0.56	-0.21	-0.21	-0.06	-0.05	-0.13	0.32									
		0.08	0.04	0.00	0.00	0.00	0.04	0.20	0.22	0.38	0.50	0.23	0.25	0.30	0.36	0.39	0.68	0.50	3.22	3.02	3.75	0.47	0.41	0.30	0.24									
ALBANY_2_SOLAR	323834	33.45	31.60	29.79	28.54	29.73	32.16	40.28	45.66	43.24	40.08	38.00	37.36	39.73	40.78	42.70	44.57	47.54	66.08	66.40	66.75	56.91	47.46	42.90	40.50									
		0.88	0.80	0.73	0.78	0.75	0.88	1.06	1.29	0.77	0.52	0.23	0.19	-0.32	-0.88	-0.75	-0.50	-0.24	-0.56	-0.21	-0.28	-0.11	-0.10	-0.17	0.32									
		0.08	0.04	0.00	0.00	0.00	0.04	0.20	0.22	0.39	0.50	0.23	0.25	0.31	0.36	0.39	0.68	0.50	3.23	3.02	3.76	0.47	0.41	0.30	0.24									
ALBANY___1	23571	32.46	30.66	29.07	27.88	29.01	31.26	39.04	44.39	42.21	39.17	37.49	36.90	39.35	40.98	42.81	44.19	47.14	62.99	63.10	62.72	55.82	46.48	42.18	39.19									
		-0.03	-0.09	0.00	0.11	0.03	0.03	0.04	0.27	0.17	0.16	-0.04	0.00	-0.36	-0.29	-0.22	-0.14	-0.10	-0.70	-0.77	-0.92	-0.69	-0.62	-0.56	-0.73									
		0.16	0.09	0.00	0.00	0.00	0.09	0.41	0.47	0.81	1.05	0.47	0.53	0.64	0.74	0.81	1.42	1.04	6.18	5.77	7.15	0.99	0.86	0.62	0.50									



ALBANY___2 23572	32.46 -0.03 0.16	30.66 -0.09 0.09	29.07 0.00 0.00	27.88 0.11 0.00	29.01 0.03 0.00	31.26 0.03 0.09	39.04 0.04 0.41	44.39 0.27 0.47	42.21 0.17 0.81	39.17 0.16 1.05	37.49 -0.04 0.47	36.90 0.00 0.53	39.35 -0.36 0.64	40.98 -0.29 0.74	42.81 -0.22 0.81	44.19 -0.14 1.42	47.14 -0.10 1.04	62.99 -0.70 6.18	63.10 -0.77 5.77	62.72 -0.92 7.15	55.82 -0.69 0.99	46.48 -0.62 0.86	42.18 -0.56 0.62	39.19 -0.73 0.50
ALBANY___3 23573	32.46 -0.03 0.16	30.66 -0.09 0.09	29.07 0.00 0.00	27.88 0.11 0.00	29.01 0.03 0.00	31.26 0.03 0.09	39.04 0.04 0.41	44.39 0.27 0.47	42.21 0.17 0.81	39.17 0.16 1.05	37.49 -0.04 0.47	36.90 0.00 0.53	39.35 -0.36 0.64	40.98 -0.29 0.74	42.81 -0.22 0.81	44.19 -0.14 1.42	47.14 -0.10 1.04	62.99 -0.70 6.18	63.10 -0.77 5.77	62.72 -0.92 7.15	55.82 -0.69 0.99	46.48 -0.62 0.86	42.18 -0.56 0.62	39.19 -0.73 0.50
ALBANY___4 23574	32.46 -0.03 0.16	30.66 -0.09 0.09	29.07 0.00 0.00	27.88 0.11 0.00	29.01 0.03 0.00	31.26 0.03 0.09	39.04 0.04 0.41	44.39 0.27 0.47	42.21 0.17 0.81	39.17 0.16 1.05	37.49 -0.04 0.47	36.90 0.00 0.53	39.35 -0.36 0.64	40.98 -0.29 0.74	42.81 -0.22 0.81	44.19 -0.14 1.42	47.14 -0.10 1.04	62.99 -0.70 6.18	63.10 -0.77 5.77	62.72 -0.92 7.15	55.82 -0.69 0.99	46.48 -0.62 0.86	42.18 -0.56 0.62	39.19 -0.73 0.50
ALBANY___LFGE 323615	32.73 0.26 0.17	30.93 0.19 0.10	29.24 0.18 0.00	28.07 0.31 0.00	29.24 0.26 0.00	31.54 0.31 0.10	39.35 0.39 0.45	44.69 0.62 0.52	42.35 0.38 0.89	39.26 0.36 1.16	37.63 0.15 0.52	37.03 0.19 0.58	39.49 -0.16 0.70	41.12 -0.08 0.82	42.94 0.00 0.89	44.36 0.18 1.57	47.47 0.34 1.15	63.66 -0.07 6.13	63.85 -0.07 5.71	63.59 -0.14 7.06	56.30 -0.11 1.09	46.87 -0.14 0.95	42.51 -0.17 0.69	39.54 -0.32 0.55
ALCOA_PA_115KV_PL-6C 55860	99.05 0.00 -66.40	99.06 -0.03 -68.24	99.09 -0.03 -70.05	57.77 -0.03 -30.03	62.89 -0.06 -33.97	85.03 -0.06 -53.76	99.58 0.00 -60.17	99.34 0.00 -54.76	68.14 0.21 -25.07	43.27 0.24 -2.97	38.19 0.19 0.00	45.66 0.07 -8.15	40.56 0.20 0.00	42.15 0.13 0.00	43.92 0.09 0.00	45.70 -0.05 0.00	48.28 0.00 0.00	81.71 1.05 -10.80	98.16 1.18 -27.34	98.16 1.20 -26.16	99.55 1.04 -41.01	99.15 0.86 -50.32	98.24 0.78 -54.09	65.00 0.81 -23.78
ALCOA_RYNLDS___DRP 24188	99.05 0.00 -66.40	99.06 -0.03 -68.24	99.09 -0.03 -70.05	57.77 -0.03 -30.03	62.89 -0.06 -33.97	85.03 -0.06 -53.76	99.58 0.00 -60.17	99.34 0.00 -54.76	68.14 0.21 -25.07	43.27 0.24 -2.97	38.19 0.19 0.00	45.66 0.07 -8.15	40.56 0.20 0.00	42.15 0.13 0.00	43.92 0.09 0.00	45.70 -0.05 0.00	48.28 0.00 0.00	81.71 1.05 -10.80	98.16 1.18 -27.34	98.16 1.20 -26.16	99.55 1.04 -41.01	99.15 0.86 -50.32	98.24 0.78 -54.09	65.00 0.81 -23.78
ALCOA___DSASP 323711	99.05 0.00 -66.40	99.06 -0.03 -68.24	99.06 -0.06 -70.05	57.74 -0.06 -30.03	62.89 -0.06 -33.97	85.03 -0.06 -53.76	99.58 0.00 -60.17	99.34 0.00 -54.76	68.14 0.22 -25.07	43.27 0.24 -2.97	38.19 0.19 0.00	45.62 0.04 -8.15	40.56 0.20 0.00	42.15 0.13 0.00	43.92 0.09 0.00	45.71 -0.05 0.00	48.28 0.00 0.00	81.71 1.05 -10.80	98.15 1.18 -27.34	98.16 1.20 -26.16	99.49 0.98 -41.01	99.15 0.86 -50.32	98.24 0.78 -54.09	65.00 0.81 -23.78
ALLEGHENY___COGEN 23514	35.42 2.12 -0.65	33.48 2.13 -0.51	31.50 2.06 -0.37	29.71 1.69 -0.26	31.20 1.86 -0.36	34.14 2.26 -0.56	42.19 1.69 -1.09	46.22 1.29 -0.33	43.66 0.68 -0.13	40.22 0.16 0.00	38.43 0.30 -0.12	37.74 0.23 -0.08	41.44 0.89 -0.19	43.39 0.97 -0.40	44.65 0.79 -0.03	46.69 0.82 -0.11	49.90 1.11 -0.51	71.48 1.32 -0.29	74.63 2.44 -2.57	77.89 3.26 -3.84	61.97 2.18 -2.28	51.32 1.87 -1.48	45.36 1.56 -0.43	43.33 2.14 -0.77
ALTAMONT_115KV_TB 2 55880	33.04 0.49 0.10	31.22 0.43 0.06	29.50 0.44 0.00	28.24 0.47 0.00	29.45 0.46 0.00	31.74 0.47 0.06	39.82 0.67 0.26	45.18 0.89 0.30	43.11 0.77 0.51	40.12 0.72 0.66	38.27 0.57 0.30	37.69 0.60 0.33	40.36 0.40 0.40	42.02 0.46 0.47	43.89 0.57 0.51	45.49 0.64 0.90	48.30 0.68 0.66	67.02 0.42 3.27	66.95 0.35 3.03	67.27 0.21 3.74	57.11 0.23 0.62	47.62 0.19 0.54	43.15 0.17 0.39	40.10 0.00 0.31
ALTONA_WT_PWR 323606	37.36 1.24 -3.47	35.37 0.96 -3.56	33.51 0.79 -3.66	29.97 0.64 -1.57	31.37 0.61 -1.77	34.70 0.56 -2.81	43.46 0.91 -3.14	48.47 1.03 -2.86	45.27 1.11 -1.31	41.50 1.28 -0.16	39.18 1.18 0.00	38.97 1.12 -0.43	41.57 1.21 0.00	42.91 0.88 0.00	44.49 0.66 0.00	44.97 -0.78 0.00	47.22 -1.06 0.00	70.71 0.28 -0.56	71.75 0.70 -1.43	73.01 0.85 -1.37	60.22 0.57 -2.14	51.03 0.43 -2.63	47.01 0.82 -2.83	43.28 1.62 -1.24
AMERICAN_REF_FUEL 24010	33.47 0.26 -0.57	31.78 0.49 -0.45	30.03 0.64 -0.32	28.29 0.31 -0.22	29.47 0.17 -0.31	32.12 0.31 -0.49	38.82 -1.54 -0.95	42.25 -2.63 -0.29	40.34 -2.62 -0.11	37.94 -2.12 0.00	36.66 -1.44 -0.11	36.12 -1.38 -0.07	40.08 -0.44 -0.17	41.91 -0.46 -0.35	43.07 -0.79 -0.03	44.29 -1.56 -0.10	46.50 -2.22 -0.44	64.35 -5.45 0.07	66.57 -5.29 -2.24	69.04 -5.10 -3.35	55.12 -4.37 -1.99	46.38 -2.88 -1.29	41.36 -2.39 -0.38	40.32 -0.77 -0.67
ARKWRIGHT___SUMMIT_WT_PWR 323751	34.96 1.73 -0.59	33.00 1.70 -0.46	31.17 1.77 -0.33	29.35 1.36 -0.23	30.73 1.42 -0.32	33.61 1.78 -0.50	40.94 0.55 -0.98	44.80 -0.09 -0.30	42.67 -0.30 -0.11	40.06 0.00 0.00	38.64 0.53 -0.11	38.06 0.56 -0.08	42.15 1.62 -0.17	43.98 1.60 -0.36	45.13 1.27 -0.03	46.63 0.78 -0.10	48.88 0.15 -0.46	67.83 -2.09 -0.06	70.07 -1.88 -2.32	72.56 -1.70 -3.47	57.78 -1.78 -2.06	48.39 -0.91 -1.34	43.02 -0.74 -0.39	41.76 0.64 -0.70
ARTHUR KILL_GT_1 23520	35.04 2.15 -0.23	32.86 1.88 -0.13	30.70 1.63 -0.01	28.93 1.17 0.00	20.07 1.36 10.28	23.75 1.60 9.17	25.88 2.56 16.09	26.33 3.17 21.42	26.48 3.39 19.76	26.35 3.41 17.11	27.02 3.57 14.55	27.05 3.85 14.23	27.36 3.83 16.83	33.29 3.99 12.72	35.63 4.25 12.46	37.71 4.12 12.16	41.65 4.39 11.03	43.84 5.17 31.20	45.13 4.60 29.09	42.32 4.18 32.65	37.66 3.28 23.12	36.42 2.49 14.04	30.57 2.43 15.22	27.11 2.10 15.41
ARTHUR_KILL_2 23512	34.94 2.06 -0.23	32.77 1.79 -0.13	30.56 1.48 -0.01	28.79 1.03 0.00	19.98 1.27 10.28	23.66 1.50 9.17	25.77 2.44 16.09	26.16 2.99 21.42	26.26 3.17 19.76	26.19 3.24 17.11	26.87 3.42 14.55	26.86 3.67 14.23	27.16 3.63 16.83	33.08 3.78 12.72	35.24 3.86 12.46	37.57 3.98 12.16	41.22 3.96 11.03	43.56 4.89 31.20	44.78 4.25 29.09	42.04 3.89 32.65	37.43 3.05 23.12	36.18 2.25 14.04	30.31 2.17 15.22	26.91 1.90 15.41
ARTHUR_KILL_3 23513	34.34 1.47 -0.23	32.17 1.20 -0.13	29.97 0.90 0.00	28.73 0.97 0.01	19.71 1.01 10.29	23.40 1.25 9.18	25.44 2.13 16.10	25.70 2.54 21.43	25.70 2.61 19.76	25.70 2.76 17.12	26.37 2.93 14.56	26.33 3.14 14.24	26.62 3.11 16.84	32.53 3.24 12.73	34.79 3.42 12.46	36.92 3.34 12.17	40.77 3.52 11.04	42.64 3.98 31.20	43.87 3.34 29.10	41.18 3.04 32.65	36.73 2.36 23.13	35.65 1.72 14.05	29.79 1.65 15.23	26.33 1.33 15.42



ARTHUR_KILL_COGEN 323718	35.04 2.15 -0.23	32.86 1.88 -0.13	30.64 1.57 -0.01	28.88 1.11 0.00	20.07 1.36 10.28	23.75 1.60 9.17	25.88 2.56 16.09	26.29 3.12 21.42	26.39 3.30 19.76	26.31 3.37 17.11	26.99 3.53 14.55	26.97 3.78 14.23	27.28 3.75 16.83	33.25 3.95 12.72	35.41 4.03 12.46	37.75 4.16 12.16	41.41 4.15 11.03	43.84 5.17 31.20	45.06 4.52 29.09	42.32 4.18 32.65	37.66 3.28 23.12	36.33 2.40 14.04	30.49 2.34 15.22	27.03 2.02 15.41
ASHOKAN____ 23654	35.33 2.68 0.00	33.40 2.56 0.00	30.64 1.57 0.00	29.46 1.69 0.00	30.52 1.54 0.00	33.92 2.60 0.00	43.15 3.75 0.00	48.87 4.28 0.00	46.40 3.55 0.00	43.19 3.13 0.00	40.66 2.66 0.00	40.04 2.62 0.00	42.86 2.50 0.00	44.92 2.90 0.00	47.16 3.33 0.00	49.59 3.84 0.00	52.68 4.39 0.00	74.11 5.73 1.48	74.19 5.99 1.43	74.71 5.73 1.82	62.50 5.00 0.00	52.00 4.03 0.00	46.75 3.38 0.00	43.20 2.79 0.00
ASTORIA_EAST_ENERGY_CC1 323581	34.60 1.73 -0.23	32.42 1.45 -0.13	30.14 1.08 0.00	28.76 1.00 0.00	30.02 1.04 0.00	32.62 1.16 -0.13	41.88 1.89 -0.58	47.61 2.36 -0.66	46.52 2.53 -1.14	44.24 2.68 -1.50	41.56 2.89 -0.67	41.35 3.18 -0.75	44.33 3.07 -0.91	46.45 3.36 -1.06	48.58 3.60 -1.15	51.21 3.43 -2.03	53.39 3.62 -1.49	76.44 3.84 -2.74	75.21 3.20 -2.38	76.45 2.90 -2.75	61.09 2.18 -1.41	50.68 1.49 -1.23	45.95 1.69 -0.89	42.70 1.57 -0.71
ASTORIA_EAST_ENERGY_CC2 323582	34.60 1.73 -0.23	32.42 1.45 -0.13	30.14 1.08 0.00	28.76 1.00 0.00	30.02 1.04 0.00	32.62 1.16 -0.13	41.88 1.89 -0.58	47.61 2.36 -0.66	46.52 2.53 -1.14	44.24 2.68 -1.50	41.56 2.89 -0.67	41.35 3.18 -0.75	44.33 3.07 -0.91	46.45 3.36 -1.06	48.58 3.60 -1.15	51.21 3.43 -2.03	53.39 3.62 -1.49	76.44 3.84 -2.74	75.21 3.20 -2.38	76.45 2.90 -2.75	61.09 2.18 -1.41	50.68 1.49 -1.23	45.95 1.69 -0.89	42.70 1.57 -0.71
ASTORIA_GT2_1 24094	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT2_2 24095	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT2_3 24096	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT2_4 24097	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT3_1 24098	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT3_2 24099	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT3_3 24100	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT3_4 24101	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT4_1 24102	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT4_2 24103	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT4_3 24104	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71



ASTORIA_GT4_4 24105	34.64 1.76 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.82 1.06 0.00	30.05 1.07 0.00	32.65 1.19 -0.13	41.93 1.93 -0.59	47.67 2.41 -0.67	46.66 2.66 -1.15	44.33 2.76 -1.51	41.64 2.96 -0.68	41.47 3.29 -0.75	44.46 3.19 -0.91	46.41 3.32 -1.07	48.68 3.68 -1.16	51.17 3.39 -2.04	53.55 3.77 -1.50	76.52 3.91 -2.75	75.36 3.34 -2.39	76.45 2.90 -2.76	61.16 2.24 -1.41	50.79 1.58 -1.24	46.08 1.82 -0.89	42.78 1.66 -0.71
ASTORIA_GT_1 23523	34.70 1.83 -0.23	32.48 1.51 -0.13	30.26 1.19 0.00	28.87 1.11 0.00	30.11 1.13 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	47.80 2.54 -0.67	46.74 2.74 -1.15	44.41 2.84 -1.51	41.72 3.04 -0.68	41.59 3.41 -0.75	44.54 3.27 -0.91	46.54 3.45 -1.07	48.81 3.81 -1.16	51.31 3.52 -2.04	53.64 3.86 -1.50	76.73 4.12 -2.75	75.50 3.48 -2.39	76.67 3.11 -2.76	61.33 2.42 -1.41	50.88 1.68 -1.24	46.17 1.91 -0.89	42.86 1.74 -0.71
ASTORIA_GT_10 24110	34.60 1.73 -0.23	32.42 1.45 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.81 1.35 -0.13	42.21 2.21 -0.59	47.98 2.72 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.62 3.44 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.73 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.44 2.53 -1.41	51.07 1.87 -1.24	46.17 1.91 -0.89	42.78 1.66 -0.71
ASTORIA_GT_11 24225	34.60 1.73 -0.23	32.42 1.45 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.81 1.35 -0.13	42.21 2.21 -0.59	47.98 2.72 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.62 3.44 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.73 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.44 2.53 -1.41	51.07 1.87 -1.24	46.17 1.91 -0.89	42.78 1.66 -0.71
ASTORIA_GT_12 24226	34.60 1.73 -0.23	32.42 1.45 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.81 1.35 -0.13	42.21 2.21 -0.59	47.98 2.72 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.62 3.44 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.73 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.44 2.53 -1.41	51.07 1.87 -1.24	46.17 1.91 -0.89	42.78 1.66 -0.71
ASTORIA_GT_13 24227	34.60 1.73 -0.23	32.42 1.45 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.81 1.35 -0.13	42.21 2.21 -0.59	47.98 2.72 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.62 3.44 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.73 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.44 2.53 -1.41	51.07 1.87 -1.24	46.17 1.91 -0.89	42.78 1.66 -0.71
ASTORIA_GT_5 24106	34.70 1.83 -0.23	32.48 1.51 -0.13	30.26 1.19 0.00	28.87 1.11 0.00	30.11 1.13 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	47.80 2.54 -0.67	46.74 2.74 -1.15	44.41 2.84 -1.51	41.72 3.04 -0.68	41.59 3.41 -0.75	44.54 3.27 -0.91	46.54 3.45 -1.07	48.81 3.81 -1.16	51.31 3.52 -2.04	53.64 3.86 -1.50	76.73 4.12 -2.75	75.50 3.48 -2.39	76.67 3.11 -2.76	61.33 2.42 -1.41	50.88 1.68 -1.24	46.17 1.91 -0.89	42.86 1.74 -0.71
ASTORIA_GT_7 24107	34.70 1.83 -0.23	32.48 1.51 -0.13	30.26 1.19 0.00	28.87 1.11 0.00	30.11 1.13 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	47.80 2.54 -0.67	46.74 2.74 -1.15	44.41 2.84 -1.51	41.72 3.04 -0.68	41.59 3.41 -0.75	44.54 3.27 -0.91	46.54 3.45 -1.07	48.81 3.81 -1.16	51.31 3.52 -2.04	53.64 3.86 -1.50	76.73 4.12 -2.75	75.50 3.48 -2.39	76.67 3.11 -2.76	61.33 2.42 -1.41	50.88 1.68 -1.24	46.17 1.91 -0.89	42.86 1.74 -0.71
ASTORIA_GT_8 24108	34.70 1.83 -0.23	32.48 1.51 -0.13	30.26 1.19 0.00	28.87 1.11 0.00	30.11 1.13 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	47.80 2.54 -0.67	46.74 2.74 -1.15	44.41 2.84 -1.51	41.72 3.04 -0.68	41.59 3.41 -0.75	44.54 3.27 -0.91	46.54 3.45 -1.07	48.81 3.81 -1.16	51.31 3.52 -2.04	53.64 3.86 -1.50	76.73 4.12 -2.75	75.50 3.48 -2.39	76.67 3.11 -2.76	61.33 2.42 -1.41	50.88 1.68 -1.24	46.17 1.91 -0.89	42.86 1.74 -0.71
ASTORIA___2 24149	34.64 1.76 -0.23	32.42 1.45 -0.13	30.14 1.08 0.00	28.79 1.03 0.00	30.06 1.07 0.00	32.65 1.19 -0.13	41.92 1.93 -0.58	47.66 2.41 -0.66	46.52 2.53 -1.14	44.24 2.68 -1.50	41.60 2.93 -0.67	41.39 3.22 -0.75	44.37 3.11 -0.91	46.49 3.40 -1.06	48.62 3.64 -1.15	51.26 3.48 -2.03	53.39 3.62 -1.49	76.51 3.91 -2.74	75.28 3.27 -2.38	76.45 2.90 -2.75	61.09 2.18 -1.41	50.73 1.53 -1.23	45.99 1.74 -0.89	42.70 1.57 -0.71
ASTORIA___3 23516	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.80 1.35 -0.13	42.20 2.21 -0.59	47.93 2.68 -0.67	46.78 2.78 -1.15	44.49 2.92 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.59 3.60 -1.16	51.36 3.57 -2.04	53.45 3.67 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.39 2.47 -1.41	50.98 1.78 -1.24	46.08 1.82 -0.89	42.70 1.57 -0.71
ASTORIA___4 23517	34.60 1.73 -0.23	32.42 1.45 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.81 1.35 -0.13	42.21 2.21 -0.59	47.98 2.72 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.62 3.44 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.73 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.44 2.53 -1.41	51.07 1.87 -1.24	46.17 1.91 -0.89	42.78 1.66 -0.71
ASTORIA___5 23518	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.80 1.35 -0.13	42.20 2.21 -0.59	47.93 2.68 -0.67	46.78 2.78 -1.15	44.49 2.92 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.59 3.60 -1.16	51.36 3.57 -2.04	53.45 3.67 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.39 2.47 -1.41	50.98 1.78 -1.24	46.08 1.82 -0.89	42.75 1.62 -0.71
AST_ENERGY_2_CC3 323677	25.66 1.40 8.39	25.66 1.14 6.33	25.66 0.75 4.16	25.66 0.72 2.82	25.66 0.75 4.07	25.66 0.85 6.51	25.66 1.54 15.28	25.66 1.92 20.84	25.66 2.10 19.29	25.66 2.28 16.68	27.01 2.51 13.50	27.01 2.81 13.22	27.01 2.66 16.01	27.69 2.94 17.27	29.57 3.16 17.42	30.59 3.02 18.18	34.40 3.14 17.02	57.35 3.22 15.73	56.55 2.58 15.65	57.80 2.20 15.19	42.41 1.61 16.70	32.02 1.05 17.00	27.27 1.30 17.40	27.01 1.17 14.58
AST_ENERGY_2_CC4 323678	25.66 1.40 8.39	25.66 1.14 6.33	25.66 0.75 4.16	25.66 0.72 2.82	25.66 0.75 4.07	25.66 0.85 6.51	25.66 1.54 15.28	25.66 1.92 20.84	25.66 2.10 19.29	25.66 2.28 16.68	27.01 2.51 13.50	27.01 2.81 13.22	27.01 2.66 16.01	27.69 2.94 17.27	29.57 3.16 17.42	30.59 3.02 18.18	34.40 3.14 17.02	57.35 3.22 15.73	56.55 2.58 15.65	57.80 2.20 15.19	42.41 1.61 16.70	32.02 1.05 17.00	27.27 1.30 17.40	27.01 1.17 14.58



ATHENS_STG_1 23668	33.57 0.82 -0.11	31.61 0.71 -0.06	29.65 0.58 0.00	28.37 0.61 0.00	29.62 0.64 0.00	32.11 0.72 -0.06	40.78 1.10 -0.27	46.23 1.34 -0.31	44.58 1.20 -0.53	42.00 1.24 -0.70	39.53 1.22 -0.31	39.12 1.35 -0.35	41.99 1.21 -0.42	43.82 1.30 -0.49	45.77 1.40 -0.54	48.16 1.46 -0.95	50.52 1.54 -0.69	72.61 1.47 -1.27	71.92 1.18 -1.11	73.06 0.99 -1.28	58.96 0.80 -0.66	49.12 0.58 -0.57	44.34 0.56 -0.41	41.15 0.40 -0.33
ATHENS_STG_2 23670	33.57 0.82 -0.11	31.61 0.71 -0.06	29.65 0.58 0.00	28.37 0.61 0.00	29.62 0.64 0.00	32.11 0.72 -0.06	40.78 1.10 -0.27	46.23 1.34 -0.31	44.58 1.20 -0.53	42.00 1.24 -0.70	39.53 1.22 -0.31	39.12 1.35 -0.35	41.99 1.21 -0.42	43.82 1.30 -0.49	45.77 1.40 -0.54	48.16 1.46 -0.95	50.52 1.54 -0.69	72.61 1.47 -1.27	71.92 1.18 -1.11	73.06 0.99 -1.28	58.96 0.80 -0.66	49.12 0.58 -0.57	44.34 0.56 -0.41	41.15 0.40 -0.33
ATHENS_STG_3 23677	33.57 0.82 -0.11	31.61 0.71 -0.06	29.65 0.58 0.00	28.37 0.61 0.00	29.62 0.64 0.00	32.11 0.72 -0.06	40.78 1.10 -0.27	46.23 1.34 -0.31	44.58 1.20 -0.53	42.00 1.24 -0.70	39.53 1.22 -0.31	39.12 1.35 -0.35	41.99 1.21 -0.42	43.82 1.30 -0.49	45.77 1.40 -0.54	48.16 1.46 -0.95	50.52 1.54 -0.69	72.61 1.47 -1.27	71.92 1.18 -1.11	73.06 0.99 -1.28	58.96 0.80 -0.66	49.12 0.58 -0.57	44.34 0.56 -0.41	41.15 0.40 -0.33
AUBURN___LFGE 323710	35.30 0.49 -2.16	33.23 0.46 -1.92	31.17 0.44 -1.66	29.00 0.33 -0.90	30.54 0.41 -1.16	33.70 0.56 -1.81	42.77 0.43 -2.93	46.29 0.31 -1.39	43.48 0.04 -0.59	39.98 -0.12 -0.04	38.24 0.00 -0.24	37.74 0.04 -0.27	40.93 0.20 -0.38	43.05 0.25 -0.78	44.07 0.18 -0.06	46.33 0.37 -0.22	49.65 0.39 -0.99	72.66 0.28 -2.52	75.57 0.56 -5.38	79.41 0.78 -7.84	62.96 0.46 -5.00	51.87 0.34 -3.57	45.08 0.13 -1.58	42.56 0.32 -1.82
BABYLON_RES_REC 323704	34.83 1.96 -0.23	32.45 1.48 -0.13	30.14 1.08 0.00	28.74 0.97 0.00	30.08 1.10 0.00	32.87 1.41 -0.13	42.16 2.17 -0.59	46.99 1.74 -0.66	45.92 1.93 -1.14	44.33 2.76 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.22 2.94 -0.91	45.77 2.69 -1.06	47.26 2.28 -1.15	45.96 2.11 1.90	51.94 2.17 -1.48	66.75 2.17 5.28	73.39 1.39 -2.37	63.37 1.06 8.48	49.37 1.04 9.17	46.22 1.05 2.80	44.80 0.91 -0.52	42.46 1.33 -0.71
BALL_HILL_WT_PWR 323825	34.44 1.21 -0.58	32.54 1.24 -0.46	30.74 1.34 -0.33	28.94 0.94 -0.23	30.26 0.96 -0.32	33.08 1.25 -0.50	40.19 -0.20 -0.98	43.86 -1.02 -0.30	41.81 -1.15 -0.11	39.26 -0.80 0.00	37.92 -0.19 -0.11	37.35 -0.15 -0.08	41.34 0.81 -0.17	43.22 0.84 -0.36	44.43 0.57 -0.03	45.85 0.00 -0.10	48.06 -0.68 -0.45	66.69 -3.21 -0.04	68.87 -3.06 -2.31	71.48 -2.76 -3.45	57.02 -2.53 -2.05	47.81 -1.49 -1.33	42.63 -1.13 -0.39	41.39 0.28 -0.69
BARON_WINDS___WT_PWR 323822	34.38 1.04 -0.69	32.38 0.99 -0.54	30.53 1.08 -0.39	28.84 0.81 -0.27	30.23 0.87 -0.38	33.01 1.10 -0.59	40.84 0.28 -1.15	44.63 -0.31 -0.36	42.38 -0.60 -0.13	39.50 -0.56 0.00	37.90 -0.23 -0.13	37.29 -0.22 -0.09	40.88 0.32 -0.20	42.78 0.33 -0.42	43.95 0.09 -0.03	45.69 -0.18 -0.12	48.24 -0.58 -0.54	68.45 -2.03 -0.62	70.89 -1.47 -2.73	73.95 -0.92 -4.08	58.94 -0.98 -2.42	49.06 -0.48 -1.57	43.44 -0.39 -0.46	41.72 0.49 -0.82
BARRETT_IC_1 23704	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_10 23701	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.47 2.50 -1.14	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_11 23702	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.47 2.50 -1.14	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_12 23703	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.47 2.50 -1.14	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_2 23705	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_3 23706	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_4 23707	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_5 23708	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71



BARRETT_IC_6 23709	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_7 23710	34.67 1.80 -0.23	32.36 1.39 -0.13	30.14 1.08 0.00	28.74 0.97 0.00	30.05 1.07 0.00	32.81 1.35 -0.13	41.93 1.93 -0.59	46.94 1.69 -0.66	45.84 1.84 -1.15	43.97 2.40 -1.51	41.53 2.85 -0.68	41.44 3.26 -0.75	44.30 3.03 -0.91	45.94 2.86 -1.06	47.88 2.89 -1.15	49.94 2.33 -1.85	52.47 2.70 -1.49	74.90 2.65 -2.38	74.16 2.16 -2.38	74.88 1.84 -2.25	59.81 1.38 -0.93	49.88 0.86 -1.05	45.36 1.13 -0.87	42.54 1.41 -0.71
BARRETT_IC_8 23711	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT_IC_9 23700	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.47 2.50 -1.14	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT___1 23545	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.48 2.50 -1.15	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BARRETT___2 23546	34.67 1.79 -0.23	32.36 1.39 -0.13	30.08 1.02 0.00	28.71 0.94 0.00	30.06 1.07 0.00	32.80 1.35 -0.13	41.89 1.89 -0.59	46.85 1.60 -0.66	45.75 1.76 -1.14	44.09 2.53 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.93 2.66 -0.91	45.60 2.52 -1.06	47.47 2.50 -1.14	49.94 2.33 -1.85	52.23 2.46 -1.49	74.83 2.59 -2.38	74.09 2.09 -2.38	74.81 1.77 -2.25	59.75 1.32 -0.93	49.88 0.86 -1.05	45.19 0.95 -0.87	42.38 1.25 -0.71
BATAVIA___115KV_TB1 55881	34.68 1.47 -0.56	32.92 1.63 -0.44	30.66 1.28 -0.32	29.07 1.08 -0.22	30.54 1.25 -0.31	33.37 1.57 -0.48	40.66 0.32 -0.94	44.30 -0.58 -0.29	41.84 -1.11 -0.11	38.90 -1.16 0.00	37.65 -0.46 -0.10	37.12 -0.37 -0.07	41.17 0.65 -0.17	43.08 0.71 -0.34	44.34 0.48 -0.03	46.21 0.37 -0.10	48.86 0.14 -0.44	68.61 -1.12 0.14	71.08 -0.77 -2.22	73.90 -0.21 -3.32	58.67 -0.81 -1.97	48.96 -0.29 -1.28	43.40 -0.35 -0.38	42.17 1.09 -0.67
BAYONEEC___CTG1 323682	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG10 323750	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG2 323683	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG3 323684	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG4 323685	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG5 323686	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG6 323687	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG7 323688	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71



BAYONEEC___CTG8 323689	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BAYONEEC___CTG9 323749	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.32 -0.59	48.02 2.77 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.66 1.54 -0.71
BEACON___LESR 323632	32.93 0.46 0.17	31.09 0.34 0.09	29.39 0.32 0.00	28.21 0.44 0.00	29.39 0.41 0.00	31.70 0.47 0.10	39.56 0.59 0.44	44.98 0.89 0.50	42.54 0.56 0.86	39.41 0.48 1.13	37.76 0.27 0.51	37.12 0.26 0.57	39.55 -0.12 0.68	41.14 -0.08 0.80	43.01 0.04 0.87	44.45 0.23 1.53	47.65 0.48 1.12	63.20 0.14 6.80	63.55 0.28 6.36	63.11 0.21 7.89	56.56 0.12 1.06	47.14 0.10 0.93	42.66 -0.04 0.67	39.72 -0.16 0.53
BEAVER RIVER___HYD 24048	51.22 0.82 -17.75	49.81 0.86 -18.11	48.32 0.81 -18.44	36.42 0.67 -8.00	38.81 0.72 -9.11	46.70 0.97 -14.40	57.33 1.38 -16.54	60.56 1.52 -14.46	50.47 1.03 -6.60	41.27 0.44 -0.77	38.42 0.30 -0.11	39.87 0.26 -2.18	40.82 0.28 -0.18	42.26 -0.13 -0.36	43.64 -0.22 -0.03	45.90 0.05 -0.10	48.74 0.00 -0.46	74.60 0.84 -3.90	80.78 1.74 -9.41	83.25 2.20 -10.26	71.96 1.78 -12.68	63.81 1.49 -14.35	58.96 1.21 -14.38	48.27 1.01 -6.85
BEEBEE_GT_13 23619	33.81 0.62 -0.54	31.98 0.71 -0.43	29.90 0.52 -0.31	28.37 0.39 -0.21	29.77 0.49 -0.30	32.45 0.66 -0.46	40.20 -0.12 -0.91	44.33 -0.54 -0.28	42.10 -0.86 -0.11	39.18 -0.88 0.00	37.65 -0.46 -0.10	37.12 -0.37 -0.07	40.76 0.24 -0.16	42.69 0.34 -0.33	44.03 0.18 -0.03	46.03 0.18 -0.09	48.80 0.10 -0.42	68.80 -0.77 0.29	71.21 -0.56 -2.14	73.71 -0.28 -3.20	58.83 -0.58 -1.90	48.91 -0.29 -1.24	43.34 -0.39 -0.36	41.34 0.28 -0.64
BENSHRST_27_KV_BENSHRST_1 355998	34.97 2.09 -0.23	32.77 1.79 -0.13	30.59 1.51 -0.01	29.04 1.28 0.00	30.37 1.39 0.00	33.06 1.60 -0.13	42.60 2.60 -0.59	48.47 3.21 -0.67	47.39 3.39 -1.16	45.02 3.45 -1.52	42.34 3.65 -0.69	42.08 3.89 -0.76	45.19 3.91 -0.92	47.18 4.08 -1.08	49.34 4.34 -1.17	51.96 4.16 -2.05	54.28 4.49 -1.51	77.93 5.31 -2.75	76.68 4.67 -2.39	77.81 4.25 -2.77	62.25 3.34 -1.41	51.70 2.49 -1.24	46.74 2.47 -0.90	43.27 2.14 -0.71
BETHLEHEM___GRP 23843	32.46 -0.03 0.16	30.66 -0.09 0.09	29.07 0.00 0.00	27.88 0.11 0.00	29.01 0.03 0.00	31.26 0.03 0.09	39.04 0.04 0.41	44.39 0.27 0.47	42.21 0.17 0.81	39.17 0.16 1.05	37.49 -0.04 0.47	36.90 0.00 0.53	39.35 -0.36 0.64	40.98 -0.29 0.74	42.81 -0.22 0.81	44.19 -0.14 1.42	47.14 -0.10 1.04	62.99 -0.70 6.18	63.10 -0.77 5.77	62.72 -0.92 7.15	55.82 -0.69 0.99	46.48 -0.62 0.86	42.18 -0.56 0.62	39.19 -0.73 0.50
BETHLEHEM___GS1 323560	32.46 -0.03 0.16	30.66 -0.09 0.09	28.98 -0.09 0.00	27.85 0.08 0.00	28.98 0.00 0.00	31.26 0.03 0.09	39.04 0.04 0.41	44.34 0.22 0.47	42.13 0.09 0.81	39.09 0.08 1.05	37.45 -0.08 0.47	36.86 -0.04 0.53	39.27 -0.44 0.64	40.86 -0.42 0.74	42.67 -0.35 0.81	44.10 -0.23 1.42	47.14 -0.10 1.04	62.92 -0.77 6.18	63.10 -0.76 5.77	62.72 -0.92 7.15	55.76 -0.75 0.99	46.48 -0.62 0.86	42.14 -0.61 0.62	39.23 -0.69 0.50
BETHLEHEM___GS2 323561	32.46 -0.03 0.16	30.66 -0.09 0.09	28.98 -0.09 0.00	27.85 0.08 0.00	28.98 0.00 0.00	31.26 0.03 0.09	39.04 0.04 0.41	44.34 0.22 0.47	42.13 0.09 0.81	39.09 0.08 1.05	37.45 -0.08 0.47	36.86 -0.04 0.53	39.27 -0.44 0.64	40.86 -0.42 0.74	42.67 -0.35 0.81	44.10 -0.23 1.42	47.14 -0.10 1.04	62.92 -0.77 6.18	63.10 -0.76 5.77	62.72 -0.92 7.15	55.76 -0.75 0.99	46.48 -0.62 0.86	42.14 -0.61 0.62	39.23 -0.69 0.50
BETHLEHEM___GS3 323562	32.46 -0.03 0.16	30.66 -0.09 0.09	28.98 -0.09 0.00	27.85 0.08 0.00	28.98 0.00 0.00	31.26 0.03 0.09	39.04 0.04 0.41	44.34 0.22 0.47	42.13 0.09 0.81	39.09 0.08 1.05	37.45 -0.08 0.47	36.86 -0.04 0.53	39.27 -0.44 0.64	40.86 -0.42 0.74	42.67 -0.35 0.81	44.10 -0.23 1.42	47.14 -0.10 1.04	62.92 -0.77 6.18	63.10 -0.76 5.77	62.72 -0.92 7.15	55.76 -0.75 0.99	46.48 -0.62 0.86	42.14 -0.61 0.62	39.23 -0.69 0.50
BETHLEHEM___STEEL 23779	34.30 1.08 -0.58	32.44 1.14 -0.46	30.30 0.90 -0.33	28.69 0.69 -0.23	30.08 0.78 -0.32	32.92 1.10 -0.50	39.95 -0.43 -0.97	43.37 -1.52 -0.30	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.39 -0.72 -0.11	36.86 0.28 -0.07	40.81 0.28 -0.17	42.63 0.25 -0.36	43.77 -0.09 -0.03	45.44 -0.41 -0.10	47.72 -1.01 -0.45	66.25 -3.63 -0.02	68.44 -3.48 -2.29	71.11 -3.11 -3.43	56.61 -2.93 -2.04	47.47 -1.82 -1.32	42.15 -1.60 -0.39	41.26 0.16 -0.69
BETHLHEM_115KV_TB1 79974	32.56 0.07 0.15	30.79 0.03 0.08	29.16 0.09 0.00	27.96 0.19 0.00	29.10 0.12 0.00	31.36 0.13 0.09	39.22 0.20 0.39	44.55 0.40 0.44	42.39 0.30 0.76	39.39 0.32 0.99	37.67 0.11 0.44	37.08 0.15 0.50	39.56 -0.20 0.60	41.20 -0.13 0.70	43.03 -0.04 0.76	44.46 0.05 1.34	47.35 0.05 0.98	63.62 -0.49 5.75	63.70 -0.56 5.37	63.43 -0.71 6.66	56.05 -0.52 0.93	46.68 -0.48 0.81	42.35 -0.43 0.59	39.38 -0.57 0.47
BETHPAGE_CC_5 323564	34.70 1.83 -0.23	32.32 1.36 -0.13	30.08 1.02 0.00	28.68 0.91 0.00	30.02 1.04 0.00	32.77 1.32 -0.13	41.93 1.93 -0.59	46.72 1.47 -0.66	45.66 1.67 -1.15	44.05 2.48 -1.51	41.61 2.93 -0.68	41.36 3.18 -0.75	43.98 2.70 -0.91	45.56 2.48 -1.06	47.44 2.45 -1.15	46.46 2.29 1.58	52.18 2.41 -1.48	67.75 2.51 4.63	73.95 1.95 -2.37	64.85 1.63 7.57	50.40 1.21 8.31	46.31 0.81 2.47	44.61 0.69 -0.55	42.22 1.09 -0.71
BIGTREE_115_KV_TB2_REV_LBMP_A 345034	34.34 1.11 -0.58	32.48 1.17 -0.46	30.30 0.90 -0.33	28.71 0.72 -0.23	30.11 0.81 -0.32	32.95 1.13 -0.50	39.99 -0.39 -0.97	43.46 -1.43 -0.30	40.91 -2.06 -0.11	38.42 -1.64 0.00	37.43 -0.68 -0.11	36.94 -0.56 -0.08	40.89 0.36 -0.17	42.67 0.29 -0.36	43.82 -0.04 -0.03	45.53 -0.32 -0.10	47.77 -0.97 -0.45	66.40 -3.49 -0.03	68.52 -3.41 -2.30	71.26 -2.97 -3.44	56.67 -2.88 -2.04	47.52 -1.77 -1.33	42.19 -1.56 -0.39	41.31 0.20 -0.69
BINGHAMTON___COGEN 23790	34.01 0.65 -0.71	32.02 0.62 -0.56	30.05 0.58 -0.40	28.54 0.50 -0.28	29.95 0.58 -0.39	32.62 0.69 -0.61	41.03 0.43 -1.18	45.22 0.27 -0.36	42.99 0.00 -0.14	40.06 0.00 0.00	38.36 0.23 -0.13	37.82 0.30 -0.09	41.05 0.48 -0.21	42.96 0.50 -0.43	44.26 0.39 -0.03	46.38 0.50 -0.12	49.22 0.39 -0.55	70.64 -0.28 -1.05	72.22 -0.21 -2.80	74.98 0.00 -4.18	59.93 -0.06 -2.49	49.73 0.14 -1.61	43.93 0.09 -0.47	41.66 0.40 -0.84



BIXINCNT_115KV_LOAD 355685	34.48 1.24 -0.59	32.54 1.23 -0.47	30.42 1.02 -0.33	28.80 0.81 -0.23	30.26 0.96 -0.32	33.18 1.35 -0.50	40.35 -0.04 -0.99	43.91 -0.98 -0.30	41.29 -1.67 -0.11	38.78 -1.28 0.00	37.81 -0.30 -0.11	37.20 -0.30 -0.08	41.06 0.52 -0.17	42.85 0.46 -0.36	43.95 0.09 -0.03	45.67 -0.18 -0.10	47.78 -0.97 -0.46	66.45 -3.49 -0.08	68.62 -3.34 -2.33	71.37 -2.90 -3.48	56.64 -2.93 -2.07	47.39 -1.92 -1.34	42.16 -1.60 -0.39	41.19 0.08 -0.70
BLACK RIVER___HYD 24047	46.65 1.21 -12.79	45.06 1.30 -12.92	43.32 1.22 -13.03	34.46 0.97 -5.73	36.64 1.07 -6.58	43.17 1.44 -10.40	53.70 1.97 -12.32	57.03 2.18 -10.25	49.00 1.50 -4.66	41.23 0.64 -0.53	38.64 0.46 -0.18	39.42 0.41 -1.58	41.04 0.40 -0.28	42.78 0.17 -0.58	44.01 0.13 -0.04	46.47 0.55 -0.16	49.70 0.68 -0.74	75.39 1.81 -3.71	81.33 3.06 -8.65	84.77 3.68 -10.30	71.03 2.87 -10.66	61.46 2.35 -11.15	55.51 1.86 -10.28	47.36 1.57 -5.37
BLACKRVR_115KV_TB2 79977	46.65 1.21 -12.79	45.06 1.30 -12.92	43.26 1.16 -13.03	34.47 0.97 -5.73	36.61 1.04 -6.58	43.17 1.44 -10.40	53.70 1.97 -12.32	57.03 2.18 -10.25	48.96 1.46 -4.66	41.19 0.60 -0.53	38.64 0.46 -0.18	39.38 0.37 -1.58	41.00 0.36 -0.28	42.73 0.13 -0.58	43.97 0.09 -0.04	46.42 0.50 -0.16	49.70 0.68 -0.74	75.39 1.82 -3.71	81.34 3.06 -8.65	84.70 3.61 -10.30	71.04 2.88 -10.66	61.42 2.30 -11.15	55.47 1.82 -10.28	47.36 1.58 -5.37
BLDWN_LI_69_KV_BK4 356085	34.83 1.96 -0.23	32.48 1.51 -0.13	30.26 1.19 0.00	28.85 1.08 0.00	30.17 1.19 0.00	32.93 1.47 -0.13	42.17 2.17 -0.59	47.21 1.96 -0.66	46.14 2.14 -1.15	44.21 2.64 -1.51	41.83 3.15 -0.68	41.77 3.59 -0.75	44.62 3.35 -0.91	46.32 3.24 -1.06	48.23 3.24 -1.15	48.33 2.75 0.17	52.90 3.14 -1.48	71.46 3.35 1.75	74.86 2.85 -2.38	69.80 2.55 3.54	54.94 1.96 4.52	48.28 1.34 1.03	45.39 1.34 -0.68	42.70 1.58 -0.71
BLISS_WT_PWR 323608	34.51 1.27 -0.59	32.57 1.27 -0.47	30.77 1.37 -0.33	28.97 0.97 -0.23	30.32 1.01 -0.32	33.18 1.35 -0.50	40.43 0.04 -0.99	44.13 -0.76 -0.30	41.98 -0.98 -0.11	39.46 -0.60 0.00	38.11 0.00 -0.11	37.43 -0.07 -0.08	41.38 0.85 -0.17	43.22 0.84 -0.36	44.39 0.53 -0.03	45.81 -0.05 -0.10	47.87 -0.87 -0.46	66.52 -3.42 -0.08	68.83 -3.13 -2.33	71.37 -2.91 -3.48	56.81 -2.76 -2.07	47.44 -1.87 -1.34	42.37 -1.39 -0.39	41.19 0.08 -0.70
BLUESTONE___WT_PWR 323821	35.02 1.76 -0.61	33.11 1.79 -0.48	31.16 1.74 -0.35	29.50 1.50 -0.24	30.97 1.65 -0.34	33.82 1.97 -0.52	42.83 2.40 -1.02	47.44 2.54 -0.32	44.90 1.93 -0.12	41.30 1.24 0.00	39.26 1.14 -0.11	38.59 1.09 -0.08	41.83 1.29 -0.18	43.70 1.30 -0.37	45.22 1.36 -0.03	47.64 1.78 -0.10	50.79 2.03 -0.48	73.80 2.80 -1.14	75.66 3.62 -2.42	78.58 4.18 -3.61	62.92 3.28 -2.15	52.05 2.68 -1.39	46.03 2.25 -0.41	43.28 2.14 -0.72
BLUE_CIRC_CHEM_DRP 24182	33.09 0.52 0.08	31.26 0.46 0.04	29.53 0.47 0.00	28.29 0.53 0.00	29.48 0.49 0.00	31.81 0.53 0.05	39.87 0.67 0.21	45.19 0.85 0.24	43.04 0.60 0.41	39.96 0.44 0.54	37.95 0.19 0.24	37.34 0.19 0.27	39.75 -0.28 0.33	41.48 -0.17 0.38	43.33 -0.09 0.41	45.07 0.05 0.73	47.12 -0.63 0.53	65.29 -1.26 3.32	65.41 -1.11 3.10	65.74 -1.20 3.85	56.13 -0.86 0.50	46.81 -0.72 0.44	42.36 -0.69 0.32	39.35 -0.81 0.25
BOC_GAS_DRP 24189	32.94 0.39 0.10	31.13 0.34 0.05	29.42 0.35 0.00	28.15 0.39 0.00	29.36 0.38 0.00	31.64 0.38 0.06	39.71 0.55 0.25	45.06 0.76 0.28	43.05 0.69 0.48	40.11 0.68 0.63	38.29 0.57 0.28	37.74 0.64 0.32	40.34 0.36 0.38	42.00 0.42 0.45	43.87 0.53 0.49	45.44 0.55 0.86	48.19 0.53 0.63	66.62 0.14 3.39	66.47 0.00 3.15	66.75 -0.14 3.90	56.85 -0.06 0.59	47.40 -0.05 0.52	42.99 0.00 0.37	39.95 -0.16 0.30
BOONVILLE_115KV_TB1 79983	40.44 0.85 -6.94	38.77 0.86 -7.06	37.04 0.81 -7.16	31.58 0.69 -3.12	33.30 0.75 -3.57	37.94 0.97 -5.64	47.30 1.34 -6.55	51.68 1.47 -5.62	46.48 1.07 -2.56	40.96 0.60 -0.30	38.56 0.49 -0.06	38.77 0.49 -0.86	40.94 0.48 -0.10	42.48 0.25 -0.21	44.11 0.26 -0.02	46.31 0.50 -0.06	49.12 0.58 -0.26	72.76 1.19 -1.70	75.49 1.81 -4.05	77.44 2.05 -4.59	64.43 1.67 -5.26	55.09 1.34 -5.78	50.06 1.08 -5.61	44.11 0.93 -2.77
BORALEX_4TH_BRANCH 23824	33.21 1.04 0.49	31.47 0.89 0.27	29.91 0.84 0.00	28.65 0.89 0.00	29.88 0.90 0.00	32.01 0.97 0.29	39.76 1.62 1.27	45.15 2.01 1.44	42.30 1.93 2.48	38.66 1.84 3.24	37.95 1.41 1.46	37.26 1.46 1.62	39.76 1.37 1.97	41.20 1.47 2.29	42.97 1.62 2.49	43.29 1.92 4.38	47.25 2.17 3.21	73.72 2.52 -1.34	73.85 2.37 -1.85	75.95 2.19 -2.96	56.24 1.78 3.04	46.65 1.34 2.66	42.62 1.17 1.92	39.61 0.73 1.53
BOWLINE___1 23526	34.13 1.27 -0.21	32.04 1.08 -0.11	29.91 0.84 0.00	28.65 0.89 0.00	29.94 0.96 0.00	32.61 1.16 -0.12	41.72 1.78 -0.54	47.34 2.14 -0.61	46.04 2.14 -1.05	43.72 2.28 -1.37	40.98 2.36 -0.62	40.66 2.55 -0.69	43.69 2.50 -0.83	45.64 2.65 -0.97	47.70 2.81 -1.05	50.40 2.79 -1.86	52.54 2.90 -1.36	75.44 3.07 -2.50	74.38 2.58 -2.17	75.71 2.41 -2.51	60.68 1.89 -1.29	50.58 1.49 -1.13	45.61 1.43 -0.81	42.19 1.13 -0.65
BOWLINE___2 23595	34.13 1.27 -0.21	32.04 1.08 -0.11	29.91 0.84 0.00	28.65 0.89 0.00	29.94 0.96 0.00	32.61 1.16 -0.12	41.72 1.78 -0.54	47.34 2.14 -0.61	46.04 2.14 -1.05	43.72 2.28 -1.37	40.98 2.36 -0.62	40.66 2.55 -0.69	43.65 2.46 -0.83	45.60 2.61 -0.97	47.70 2.81 -1.05	50.40 2.79 -1.86	52.54 2.90 -1.36	75.44 3.07 -2.50	74.38 2.58 -2.17	75.64 2.33 -2.51	60.68 1.89 -1.29	50.58 1.49 -1.13	45.61 1.43 -0.81	42.19 1.13 -0.65
BRADY___115KV_TB2 356060	92.29 0.26 -59.38	92.12 0.25 -61.03	91.92 0.20 -62.65	54.79 0.17 -26.86	59.53 0.17 -30.38	79.62 0.22 -48.08	93.65 0.43 -53.81	94.04 0.49 -48.97	65.79 0.51 -22.42	43.12 0.40 -2.66	38.31 0.30 0.00	44.83 0.11 -7.29	40.64 0.28 0.00	42.23 0.21 0.00	44.01 0.18 0.00	45.89 0.14 0.00	48.52 0.24 0.00	81.20 1.68 -9.66	96.17 2.09 -24.45	96.45 2.27 -23.40	96.02 1.84 -36.67	94.45 1.49 -45.00	93.04 1.30 -48.37	62.93 1.25 -21.26
BRANSCOMB___SOLAR 323811	33.57 1.17 0.25	31.69 0.99 0.14	30.03 0.96 0.00	28.74 0.97 0.00	30.00 1.01 0.00	32.34 1.16 0.15	40.14 1.38 0.65	45.59 1.74 0.74	42.66 1.07 1.26	39.09 0.68 1.65	37.53 0.27 0.74	36.79 0.19 0.83	39.31 -0.04 1.00	40.98 0.13 1.17	42.87 0.31 1.27	44.24 0.73 2.24	47.85 1.21 1.64	74.77 1.61 -3.29	75.17 2.09 -3.46	77.91 2.41 -4.71	57.73 1.78 1.55	48.10 1.49 1.36	43.56 1.17 0.98	40.44 0.81 0.78
BRDGHMPT_69_KV_BK1 55812	35.00 2.12 -0.23	32.57 1.60 -0.13	30.32 1.25 0.00	28.87 1.11 0.00	30.23 1.25 0.00	33.02 1.57 -0.13	42.32 2.33 -0.59	47.21 1.96 -0.66	46.27 2.27 -1.15	44.45 2.88 -1.51	42.33 3.65 -0.68	42.30 4.12 -0.75	45.35 4.08 -0.91	46.99 3.91 -1.06	48.89 3.90 -1.15	46.56 3.20 2.40	53.43 3.67 -1.48	67.62 4.05 6.30	75.55 3.55 -2.37	64.07 3.19 9.91	49.40 2.42 10.51	46.28 1.63 3.31	44.97 1.13 -0.48	42.70 1.58 -0.71



BRENTWOD_69_KV_W. BRTWOOD 56703	35.06 2.19 -0.23	32.63 1.67 -0.13	30.38 1.31 0.00	28.93 1.17 0.00	30.26 1.28 0.00	33.06 1.60 -0.13	42.44 2.44 -0.59	47.35 2.10 -0.66	46.36 2.36 -1.15	44.49 2.92 -1.51	42.21 3.53 -0.68	42.15 3.97 -0.75	45.06 3.79 -0.91	46.61 3.53 -1.06	48.36 3.38 -1.15	46.04 2.61 2.32	52.76 2.99 -1.48	66.53 2.79 6.13	74.30 2.30 -2.37	63.10 1.98 9.68	48.76 1.55 10.30	45.94 1.20 3.23	45.07 1.21 -0.48	42.87 1.74 -0.71
BRISTLHL_115KV_TB1 79998	36.00 -0.16 -3.51	33.83 -0.15 -3.14	31.65 -0.15 -2.73	29.07 -0.17 -1.47	30.69 -0.17 -1.88	34.14 -0.13 -2.94	43.82 -0.32 -4.72	46.42 -0.45 -2.28	43.21 -0.60 -0.96	39.49 -0.64 -0.07	37.84 -0.53 -0.37	37.38 -0.49 -0.44	40.43 -0.52 -0.59	42.71 -0.55 -1.23	43.36 -0.57 -0.09	45.59 -0.50 -0.34	49.31 -0.53 -1.56	73.68 -1.05 -4.86	77.27 -0.91 -8.55	82.46 -0.78 -12.44	64.73 -0.75 -7.97	53.06 -0.62 -5.72	45.29 -0.65 -2.57	42.81 -0.53 -2.92
BROOKHAVEN___DRP 24191	34.57 1.70 -0.23	32.17 1.20 -0.13	29.94 0.87 0.00	28.49 0.72 0.00	29.82 0.84 0.00	32.59 1.13 -0.13	41.89 1.89 -0.59	46.63 1.38 -0.66	45.67 1.67 -1.15	43.85 2.28 -1.51	41.61 2.93 -0.68	41.55 3.37 -0.75	44.42 3.15 -0.91	45.98 2.81 -1.06	47.79 2.81 -1.15	45.41 2.06 2.40	52.13 2.37 -1.48	65.73 2.17 6.30	73.67 1.67 -2.37	62.22 1.35 9.92	48.07 1.09 10.52	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
BROOKLYN_NAVY_YARD 23515	34.44 1.57 -0.23	32.29 1.33 -0.13	30.08 1.02 0.00	28.82 1.05 0.00	30.08 1.10 0.00	32.84 1.38 -0.13	42.28 2.28 -0.59	47.98 2.72 -0.67	46.78 2.78 -1.15	44.49 2.92 -1.51	41.80 3.12 -0.68	41.51 3.33 -0.75	44.54 3.27 -0.91	46.45 3.36 -1.07	48.59 3.60 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	77.02 3.47 -2.76	61.62 2.70 -1.41	51.17 1.97 -1.24	46.08 1.82 -0.89	42.62 1.50 -0.71
BROOKLYN___ARMY_DRP 323595	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
BROOME_2_LFGE 323671	34.01 0.65 -0.71	32.02 0.62 -0.56	30.14 0.67 -0.40	28.57 0.53 -0.28	29.98 0.61 -0.39	32.62 0.69 -0.61	41.07 0.47 -1.18	45.27 0.31 -0.36	43.16 0.17 -0.14	40.22 0.16 0.00	38.44 0.30 -0.13	37.85 0.34 -0.09	41.13 0.56 -0.21	43.04 0.59 -0.43	44.39 0.53 -0.03	46.42 0.55 -0.12	49.22 0.38 -0.55	70.64 0.38 -1.05	72.29 -0.14 -2.80	75.05 0.07 -4.18	59.99 0.00 -2.49	49.73 0.14 -1.61	43.97 0.13 -0.47	41.66 0.40 -0.84
BROOME___LFGE 323600	34.01 0.65 -0.71	32.02 0.62 -0.56	30.14 0.67 -0.40	28.57 0.53 -0.28	29.98 0.61 -0.39	32.62 0.69 -0.61	41.07 0.47 -1.18	45.27 0.31 -0.36	43.16 0.17 -0.14	40.22 0.16 0.00	38.44 0.30 -0.13	37.85 0.34 -0.09	41.13 0.56 -0.21	43.04 0.59 -0.43	44.39 0.53 -0.03	46.42 0.55 -0.12	49.22 0.38 -0.55	70.64 0.38 -1.05	72.29 -0.14 -2.80	75.05 0.07 -4.18	59.99 0.00 -2.49	49.73 0.14 -1.61	43.97 0.13 -0.47	41.66 0.40 -0.84
BROWNFLS_115KV_TB_3_5 80003	64.49 0.52 -31.32	63.46 0.52 -32.09	62.37 0.47 -32.84	42.29 0.39 -14.14	45.46 0.43 -16.04	57.30 0.60 -25.38	69.01 0.91 -28.69	71.27 0.98 -25.70	55.33 0.73 -11.75	41.80 0.36 -1.38	38.31 0.23 -0.08	41.42 0.15 -3.85	40.72 0.24 -0.12	42.23 -0.04 -0.25	43.77 -0.09 -0.02	45.82 0.00 -0.07	48.60 0.00 -0.32	76.71 1.05 -5.80	85.73 1.74 -14.36	87.39 1.98 -14.61	79.70 1.67 -20.54	73.72 1.39 -24.36	69.99 1.17 -25.45	52.98 1.01 -11.56
BROWNSV1_27_KV_LOAD 356125	34.77 1.89 -0.23	32.60 1.63 -0.13	30.43 1.37 0.00	29.12 1.36 0.00	30.37 1.39 0.00	33.12 1.66 -0.13	42.68 2.68 -0.59	48.47 3.21 -0.67	47.34 3.34 -1.15	44.97 3.41 -1.51	42.21 3.53 -0.68	41.96 3.78 -0.75	45.06 3.79 -0.91	47.04 3.95 -1.07	49.20 4.21 -1.16	51.86 4.07 -2.04	54.13 4.35 -1.50	77.78 5.17 -2.75	76.54 4.53 -2.39	77.73 4.18 -2.76	62.25 3.34 -1.41	51.70 2.49 -1.24	46.60 2.34 -0.89	43.15 2.02 -0.71
BURROWS___LYONSDAL 23803	42.56 0.85 -9.07	40.96 0.89 -9.23	39.26 0.81 -9.38	32.54 0.69 -4.08	34.39 0.75 -4.65	39.66 0.97 -7.36	49.30 1.38 -8.51	53.46 1.52 -7.36	47.27 1.07 -3.35	41.01 0.56 -0.39	38.53 0.46 -0.07	38.95 0.41 -1.12	40.92 0.44 -0.11	42.39 0.13 -0.24	43.94 0.09 -0.02	46.18 0.37 -0.07	48.97 0.39 -0.30	72.98 0.98 -2.13	76.40 1.67 -5.10	78.48 1.98 -5.70	65.83 1.61 -6.72	56.77 1.34 -7.46	51.78 1.08 -7.33	44.87 0.89 -3.57
CAITHNESS_CC_1 323624	34.57 1.70 -0.23	32.17 1.20 -0.13	29.88 0.81 0.00	28.46 0.69 0.00	29.82 0.84 0.00	32.58 1.13 -0.13	41.85 1.85 -0.59	46.54 1.29 -0.66	45.53 1.54 -1.14	43.93 2.36 -1.51	41.61 2.93 -0.68	41.36 3.18 -0.75	43.93 2.66 -0.91	45.39 2.31 -1.06	47.22 2.23 -1.15	45.41 2.06 2.40	51.88 2.12 -1.48	65.58 2.03 6.31	73.53 1.53 -2.37	62.07 1.20 9.92	47.89 0.92 10.53	45.23 0.58 3.32	44.28 0.43 -0.48	42.10 0.97 -0.71
CALPINE BETH_PAGE_GT4 24209	34.73 1.86 -0.23	32.39 1.42 -0.13	30.20 1.13 0.00	28.76 1.00 0.00	30.08 1.10 0.00	32.84 1.38 -0.13	41.97 1.97 -0.59	46.77 1.52 -0.66	45.76 1.76 -1.15	43.89 2.32 -1.51	41.53 2.85 -0.68	41.47 3.29 -0.75	44.30 3.03 -0.91	45.94 2.86 -1.06	47.83 2.85 -1.15	46.78 2.24 1.21	52.37 2.61 -1.48	68.56 2.58 3.88	74.02 2.02 -2.37	65.96 1.70 6.53	51.43 1.27 7.33	46.68 0.82 2.10	44.73 0.78 -0.59	42.42 1.29 -0.71
CALPINE_BETH_PAGE_GT_4 323586	34.73 1.86 -0.23	32.39 1.42 -0.13	30.14 1.08 0.00	28.74 0.97 0.00	30.08 1.10 0.00	32.84 1.38 -0.13	41.97 1.97 -0.59	46.72 1.47 -0.66	45.62 1.63 -1.15	43.97 2.40 -1.51	41.53 2.85 -0.68	41.33 3.14 -0.75	43.93 2.66 -0.91	45.52 2.44 -1.06	47.44 2.45 -1.15	46.82 2.29 1.21	52.18 2.41 -1.48	68.49 2.51 3.88	73.95 1.95 -2.37	65.96 1.70 6.53	51.38 1.21 7.33	46.63 0.77 2.10	44.65 0.69 -0.59	42.26 1.13 -0.71
CALPINE_BP_GT1 23823	34.73 1.86 -0.23	32.39 1.42 -0.13	30.14 1.08 0.00	28.74 0.97 0.00	30.08 1.10 0.00	32.84 1.38 -0.13	41.97 1.97 -0.59	46.72 1.47 -0.66	45.62 1.63 -1.15	43.97 2.40 -1.51	41.53 2.85 -0.68	41.33 3.14 -0.75	43.93 2.66 -0.91	45.52 2.44 -1.06	47.44 2.45 -1.15	46.82 2.29 1.21	52.18 2.41 -1.48	68.49 2.51 3.88	73.95 1.95 -2.37	65.96 1.70 6.53	51.38 1.21 7.33	46.63 0.77 2.10	44.65 0.69 -0.59	42.26 1.13 -0.71
CALSPAN___DRP 24200	34.30 1.08 -0.58	32.44 1.14 -0.46	30.30 0.90 -0.33	28.69 0.69 -0.23	30.08 0.78 -0.32	32.92 1.10 -0.50	39.95 -0.43 -0.97	43.37 -1.52 -0.30	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.39 -0.72 -0.11	36.86 -0.64 -0.07	40.81 0.28 -0.17	42.63 0.25 -0.36	43.77 -0.09 -0.03	45.44 -0.41 -0.10	47.72 -1.01 -0.45	66.25 -3.63 -0.02	68.44 -3.48 -2.29	71.11 -3.11 -3.43	56.61 -2.93 -2.04	47.47 -1.82 -1.32	42.15 -1.60 -0.39	41.26 0.16 -0.69



CALVERTON___SOLAR 323806	34.60 1.73 -0.23	32.20 1.24 -0.13	29.91 0.84 0.00	28.48 0.72 0.00	29.85 0.87 0.00	32.62 1.16 -0.13	41.89 1.89 -0.59	46.59 1.34 -0.66	45.58 1.59 -1.14	43.97 2.40 -1.51	41.65 2.97 -0.68	41.44 3.25 -0.75	44.02 2.75 -0.91	45.52 2.44 -1.06	47.35 2.37 -1.15	45.50 2.15 2.40	52.08 2.32 -1.48	65.87 2.30 6.30	73.81 1.81 -2.37	62.43 1.56 9.91	48.13 1.15 10.52	45.37 0.72 3.31	44.32 0.48 -0.48	42.14 1.01 -0.71
CANDIGU_WT_PWR 323617	34.38 1.04 -0.69	32.38 0.99 -0.54	30.53 1.08 -0.39	28.84 0.81 -0.27	30.23 0.87 -0.38	33.01 1.10 -0.59	40.84 0.28 -1.15	44.63 -0.31 -0.36	42.38 -0.60 -0.13	39.50 -0.56 0.00	37.90 -0.23 -0.13	37.29 -0.22 -0.09	40.88 0.32 -0.20	42.78 0.33 -0.42	43.95 0.09 -0.03	45.69 -0.18 -0.12	48.24 -0.58 -0.54	68.45 -2.03 -0.62	70.89 -1.47 -2.73	73.95 -0.92 -4.08	58.94 -0.98 -2.42	49.06 -0.48 -1.57	43.44 -0.39 -0.46	41.72 0.49 -0.82
CARR STREET_E_SYR 24060	35.01 0.07 -2.30	33.04 0.06 -2.13	31.13 0.12 -1.94	28.77 0.03 -0.98	30.26 0.06 -1.22	33.27 0.03 -1.91	41.99 -0.27 -2.85	45.78 -0.40 -1.59	43.02 -0.51 -0.69	39.60 -0.52 -0.06	37.73 -0.45 -0.19	37.30 -0.41 -0.29	40.33 -0.32 -0.30	42.30 -0.34 -0.61	43.53 -0.35 -0.05	45.60 -0.32 -0.17	48.67 -0.39 -0.78	70.53 -0.91 -1.58	73.34 -0.76 -4.48	76.56 -0.64 -6.41	61.18 -0.63 -4.31	50.71 -0.53 -3.26	44.53 -0.56 -1.73	41.62 -0.44 -1.65
CARTHAGE___PAPER 23857	48.34 0.98 -14.71	46.79 1.02 -14.93	45.15 0.96 -15.12	35.15 0.78 -6.61	37.38 0.84 -7.56	44.43 1.16 -11.95	55.02 1.65 -13.95	58.30 1.83 -11.88	49.50 1.24 -5.41	41.20 0.52 -0.62	38.53 0.38 -0.15	39.54 0.30 -1.81	40.88 0.28 -0.24	42.48 -0.04 -0.50	43.78 -0.09 -0.04	46.12 0.23 -0.14	49.21 0.29 -0.63	74.97 1.32 -3.78	81.00 2.44 -8.94	83.98 2.90 -10.28	71.30 2.36 -11.44	62.28 1.92 -12.39	56.75 1.52 -11.86	47.61 1.25 -5.94
CASSADAGA_WT_PWR 323784	35.13 1.89 -0.59	33.16 1.85 -0.46	31.32 1.92 -0.33	29.49 1.50 -0.23	30.87 1.56 -0.32	33.83 2.01 -0.50	41.22 0.83 -0.98	45.16 0.27 -0.30	42.96 0.00 -0.11	40.34 0.28 0.00	38.91 0.80 -0.11	38.29 0.79 -0.08	42.39 1.86 -0.17	44.23 1.85 -0.36	45.39 1.53 -0.03	46.90 1.05 -0.10	49.03 0.29 -0.46	68.12 -1.82 -0.07	70.35 -1.60 -2.33	72.92 -1.35 -3.48	58.02 -1.55 -2.06	48.68 -0.62 -1.34	43.24 -0.52 -0.39	41.92 0.81 -0.70
CE_DUNWOOD___DRP 24194	34.34 1.47 -0.23	32.23 1.26 -0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.08 1.10 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	47.80 2.54 -0.67	46.61 2.61 -1.15	44.29 2.72 -1.51	41.49 2.81 -0.68	41.25 3.07 -0.75	44.30 3.03 -0.91	46.24 3.15 -1.07	48.37 3.38 -1.16	50.99 3.20 -2.03	53.20 3.43 -1.49	76.45 3.84 -2.74	75.35 3.34 -2.38	76.59 3.04 -2.76	61.33 2.42 -1.41	51.02 1.82 -1.23	45.99 1.73 -0.89	42.58 1.45 -0.71
CE_MILLWOOD___DRP 24193	34.28 1.40 -0.23	32.20 1.23 -0.13	30.09 1.02 0.00	28.79 1.03 0.00	30.03 1.04 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	47.71 2.45 -0.67	46.48 2.49 -1.15	44.17 2.60 -1.50	41.34 2.66 -0.68	41.06 2.88 -0.75	44.13 2.87 -0.91	46.07 2.98 -1.06	48.19 3.20 -1.15	50.85 3.07 -2.03	53.01 3.23 -1.49	76.23 3.63 -2.74	75.14 3.13 -2.38	76.37 2.83 -2.75	61.15 2.24 -1.41	50.93 1.73 -1.23	45.90 1.65 -0.89	42.46 1.33 -0.71
CE_NYC2_DRP 24202	34.60 1.73 -0.23	32.45 1.48 -0.13	30.29 1.22 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.84 1.38 -0.13	42.24 2.25 -0.59	48.02 2.76 -0.67	46.91 2.91 -1.15	44.61 3.04 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.81 3.81 -1.16	51.40 3.61 -2.04	53.64 3.86 -1.50	77.01 4.40 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.12 1.92 -1.24	46.21 1.95 -0.89	42.82 1.70 -0.71
CE_NYC_DRP 24195	34.54 1.67 -0.23	32.39 1.42 -0.13	30.23 1.16 0.00	28.96 1.19 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.40 2.40 -0.59	48.11 2.85 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.74 3.47 -0.91	46.71 3.61 -1.07	48.81 3.81 -1.16	51.45 3.66 -2.04	53.69 3.91 -1.50	77.08 4.47 -2.75	75.91 3.90 -2.39	77.09 3.54 -2.76	61.73 2.82 -1.41	51.31 2.11 -1.24	46.30 2.04 -0.89	42.82 1.70 -0.71
CHAFFEE___LFGE 323603	34.34 1.11 -0.58	32.48 1.17 -0.46	30.65 1.25 -0.33	28.88 0.89 -0.23	30.15 0.84 -0.32	32.99 1.16 -0.50	40.11 -0.27 -0.98	43.78 -1.11 -0.30	41.72 -1.24 -0.11	39.18 -0.88 0.00	37.81 -0.31 -0.11	37.24 -0.26 -0.08	41.30 0.76 -0.17	43.14 0.76 -0.36	44.39 0.53 -0.03	45.81 -0.05 -0.10	48.06 -0.68 -0.45	66.77 -3.14 -0.05	69.02 -2.92 -2.31	71.56 -2.69 -3.46	57.08 -2.47 -2.05	47.81 -1.49 -1.33	42.59 -1.17 -0.39	41.39 0.28 -0.69
CHATEAUG_35_KV_LOAD 355732	39.92 0.52 -6.75	38.15 0.37 -6.93	36.45 0.26 -7.12	31.01 0.19 -3.05	32.58 0.14 -3.45	36.88 0.09 -5.46	45.88 0.35 -6.11	50.51 0.36 -5.56	45.87 0.47 -2.55	40.96 0.60 -0.30	38.50 0.49 0.00	38.67 0.41 -0.83	40.88 0.52 0.00	42.32 0.29 0.00	43.97 0.13 0.00	45.11 -0.64 0.00	47.61 -0.68 0.00	71.59 0.63 -1.10	73.31 0.91 -2.78	74.51 1.06 -2.66	62.53 0.86 -4.17	53.75 0.67 -5.11	49.60 0.74 -5.50	43.92 1.09 -2.42
CHATEAUG_WT_PWR 323614	35.86 0.59 -2.62	33.94 0.40 -2.69	32.12 0.29 -2.77	29.15 0.20 -1.19	30.50 0.17 -1.34	33.57 0.13 -2.12	42.14 0.35 -2.38	47.15 0.40 -2.16	44.36 0.52 -0.99	40.82 0.64 -0.12	38.53 0.53 0.00	38.20 0.45 -0.32	40.92 0.56 0.00	42.36 0.33 0.00	44.01 0.18 0.00	45.07 -0.69 0.00	47.46 -0.82 0.00	70.64 0.35 -0.43	71.33 0.63 -1.08	72.53 0.71 -1.03	59.69 0.57 -1.62	50.38 0.43 -1.99	46.11 0.61 -2.14	42.36 1.01 -0.94
CHAT_HIGH_FALL_HYD 323578	39.92 0.52 -6.75	38.15 0.37 -6.93	36.45 0.26 -7.12	31.01 0.19 -3.05	32.58 0.14 -3.45	36.88 0.09 -5.46	45.88 0.35 -6.11	50.51 0.36 -5.56	45.87 0.47 -2.55	40.96 0.60 -0.30	38.50 0.49 0.00	38.67 0.41 -0.83	40.88 0.52 0.00	42.32 0.29 0.00	43.97 0.13 0.00	45.11 -0.64 0.00	47.61 -0.68 0.00	71.59 0.63 -1.10	73.31 0.91 -2.78	74.51 1.06 -2.66	62.53 0.86 -4.17	53.75 0.67 -5.11	49.60 0.74 -5.50	43.92 1.09 -2.42
CHAUTAUQUA___LFGE 323629	34.80 1.57 -0.58	32.85 1.54 -0.46	31.03 1.63 -0.33	29.24 1.25 -0.23	30.58 1.27 -0.32	33.45 1.63 -0.50	40.70 0.31 -0.98	44.53 -0.36 -0.30	42.36 -0.60 -0.11	39.78 -0.28 0.00	38.41 0.30 -0.11	37.84 0.34 -0.08	41.86 1.33 -0.17	43.73 1.34 -0.36	44.91 1.05 -0.03	46.40 0.55 -0.10	48.64 -0.10 -0.45	67.54 -2.38 -0.05	69.71 -2.23 -2.31	72.27 -1.98 -3.46	57.60 -1.96 -2.05	48.34 -0.96 -1.33	43.02 -0.74 -0.39	41.72 0.61 -0.69
CHERRYST_13_KV_LD 356241	34.64 1.76 -0.23	32.48 1.51 -0.13	30.32 1.25 0.00	29.04 1.28 0.00	30.29 1.30 0.00	33.02 1.57 -0.13	42.56 2.56 -0.59	48.29 3.03 -0.67	47.13 3.13 -1.15	44.81 3.24 -1.51	42.06 3.38 -0.68	41.81 3.63 -0.75	44.90 3.63 -0.91	46.87 3.78 -1.07	48.98 3.99 -1.16	51.68 3.89 -2.04	53.93 4.15 -1.50	77.43 4.82 -2.75	76.19 4.18 -2.39	77.37 3.82 -2.76	61.96 3.05 -1.41	51.46 2.25 -1.24	46.43 2.17 -0.89	42.95 1.82 -0.71



CHESTROR_138KV_BK263 355645	33.98 1.14 -0.19	31.96 1.02 -0.10	29.94 0.87 0.00	28.62 0.86 0.00	29.85 0.87 0.00	32.47 1.03 -0.11	41.47 1.58 -0.49	47.06 1.92 -0.55	45.68 1.89 -0.95	43.23 1.92 -1.24	40.50 1.94 -0.56	40.18 2.13 -0.62	43.21 2.10 -0.75	45.09 2.19 -0.88	47.15 2.37 -0.95	49.81 2.38 -1.68	52.02 2.51 -1.23	74.78 2.65 -2.26	73.89 2.30 -1.97	75.12 2.05 -2.28	60.39 1.73 -1.17	50.33 1.34 -1.02	45.40 1.30 -0.73	42.01 1.01 -0.59
CH_MIDHUDSON___DRP 24192	34.23 1.44 -0.15	32.19 1.26 -0.08	30.17 1.10 0.00	28.87 1.11 0.00	30.08 1.10 0.00	32.69 1.28 -0.09	41.80 2.01 -0.38	47.43 2.41 -0.43	45.95 2.36 -0.74	43.43 2.40 -0.97	40.79 2.36 -0.43	40.46 2.54 -0.48	43.45 2.50 -0.59	45.35 2.65 -0.68	47.47 2.89 -0.74	49.94 2.88 -1.31	52.33 3.09 -0.96	75.05 3.42 -1.76	74.22 3.06 -1.53	75.40 2.83 -1.77	60.71 2.30 -0.91	50.54 1.77 -0.79	45.59 1.65 -0.57	42.21 1.33 -0.46
CH_MISC_IPPS 23765	34.48 1.66 -0.17	32.45 1.51 -0.09	30.32 1.25 0.00	29.04 1.28 0.00	30.26 1.27 0.00	32.93 1.50 -0.10	42.13 2.28 -0.44	47.76 2.68 -0.50	46.23 2.53 -0.86	43.75 2.57 -1.12	41.01 2.51 -0.50	40.65 2.66 -0.56	43.70 2.66 -0.68	45.71 2.90 -0.79	47.85 3.16 -0.86	50.52 3.25 -1.52	52.82 3.43 -1.11	75.82 3.91 -2.05	74.95 3.55 -1.78	76.18 3.33 -2.06	61.31 2.76 -1.05	51.05 2.16 -0.92	45.98 1.95 -0.66	42.56 1.62 -0.53
CH_RES_BVR_FALLS 23983	30.85 -0.23 1.57	29.01 -0.21 1.62	27.24 -0.17 1.66	26.89 -0.17 0.71	28.01 -0.17 0.80	29.86 -0.19 1.27	37.79 -0.20 1.42	43.07 -0.22 1.30	42.08 -0.17 0.59	39.87 -0.12 0.07	37.89 -0.11 0.00	37.08 -0.15 0.19	40.20 -0.16 0.00	41.73 -0.29 0.00	43.44 -0.40 0.00	45.25 -0.50 0.00	47.75 -0.53 0.00	69.26 -0.35 0.26	68.63 -0.35 0.65	69.82 -0.35 0.62	56.30 -0.23 0.97	46.63 -0.14 1.19	41.96 -0.13 1.28	39.77 -0.08 0.56
CH_RES_NIAGARA 23895	33.89 0.69 -0.56	32.18 0.89 -0.45	30.00 0.61 -0.32	28.43 0.44 -0.22	29.76 0.46 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	41.85 -3.03 -0.29	39.44 -3.51 -0.11	37.10 -2.96 0.00	36.21 -1.90 -0.11	35.74 -1.76 -0.07	39.64 -0.89 -0.17	41.36 -1.01 -0.35	42.50 -1.36 -0.03	43.97 -1.88 -0.10	46.16 -2.56 -0.44	63.98 -5.80 0.08	66.07 -5.78 -2.23	68.53 -5.59 -3.33	54.70 -4.77 -1.98	45.99 -3.26 -1.28	40.79 -2.95 -0.38	40.68 -0.40 -0.67
CH_RES_SYRACUSE 23985	35.34 0.20 -2.49	33.27 0.19 -2.24	31.25 0.23 -1.95	28.95 0.14 -1.05	30.49 0.17 -1.33	33.66 0.25 -2.09	42.81 0.08 -3.32	46.22 0.00 -1.63	43.41 -0.13 -0.69	39.95 -0.16 -0.05	38.11 -0.15 -0.26	37.67 -0.07 -0.32	40.77 0.00 -0.41	42.91 0.04 -0.85	43.90 0.00 -0.06	46.08 0.09 -0.24	49.41 0.05 -1.08	72.42 -0.21 -2.77	75.49 -0.07 -5.93	79.48 0.07 -8.62	62.99 -0.06 -5.55	51.92 -0.05 -4.00	45.07 -0.13 -1.83	42.41 -0.04 -2.04
CLINTON_WT_PWR 323605	35.86 0.59 -2.62	33.94 0.40 -2.69	32.12 0.29 -2.77	29.15 0.20 -1.19	30.50 0.17 -1.34	33.57 0.13 -2.12	42.14 0.35 -2.38	47.15 0.40 -2.16	44.36 0.52 -0.99	40.82 0.64 -0.12	38.53 0.53 0.00	38.20 0.45 -0.32	40.92 0.56 0.00	42.36 0.33 0.00	44.01 0.18 0.00	45.07 -0.69 0.00	47.46 -0.82 0.00	70.64 0.35 -0.43	71.33 0.63 -1.08	72.53 0.71 -1.03	59.69 0.57 -1.62	50.38 0.43 -1.99	46.11 0.61 -2.14	42.36 1.01 -0.94
CLINTON___LFGE 323618	37.98 1.27 -4.06	36.03 1.02 -4.17	34.22 0.87 -4.28	30.32 0.72 -1.84	31.75 0.69 -2.08	35.30 0.69 -3.29	44.23 1.14 -3.68	49.18 1.25 -3.35	45.67 1.28 -1.53	41.64 1.40 -0.18	39.22 1.22 0.00	39.12 1.20 -0.50	41.69 1.33 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.29 -0.46 0.00	47.71 -0.58 0.00	71.64 1.11 -0.66	72.77 1.46 -1.67	74.02 1.63 -1.60	61.27 1.26 -2.51	52.00 0.96 -3.08	47.85 1.17 -3.31	43.69 1.82 -1.45
COBBLENY_34_KV_TB1 80064	34.34 1.11 -0.58	32.48 1.17 -0.46	30.30 0.90 -0.33	28.72 0.72 -0.23	30.12 0.81 -0.32	32.98 1.16 -0.50	40.07 -0.32 -0.98	43.55 -1.34 -0.30	41.03 -1.93 -0.11	38.50 -1.56 0.00	37.50 -0.61 -0.11	36.98 -0.52 -0.08	40.93 0.40 -0.17	42.76 0.38 -0.36	43.90 0.04 -0.03	45.62 -0.23 -0.10	47.92 -0.82 -0.45	66.63 -3.28 -0.05	68.74 -3.20 -2.31	71.49 -2.76 -3.46	56.85 -2.70 -2.05	47.62 -1.68 -1.33	42.28 -1.47 -0.39	41.35 0.24 -0.69
COFFEEN___115KV_TB3 355620	46.47 1.37 -12.45	44.86 1.45 -12.57	43.03 1.31 -12.66	34.42 1.08 -5.57	36.58 1.19 -6.41	43.05 1.60 -10.13	53.65 2.21 -12.03	56.96 2.41 -9.97	49.00 1.63 -4.52	41.26 0.68 -0.51	38.72 0.53 -0.18	39.41 0.45 -1.54	41.09 0.44 -0.29	42.83 0.21 -0.60	44.05 0.18 -0.05	46.60 0.69 -0.17	49.91 0.87 -0.76	75.73 2.17 -3.70	81.70 3.48 -8.59	85.27 4.18 -10.30	71.30 3.28 -10.52	61.53 2.64 -10.93	55.45 2.08 -10.00	47.46 1.78 -5.27
COLDSPRG_115KV_BK1 355956	35.10 1.86 -0.59	33.07 1.76 -0.47	30.94 1.54 -0.33	29.25 1.25 -0.23	30.79 1.48 -0.33	33.84 2.00 -0.51	41.23 0.83 -0.99	45.07 0.18 -0.31	42.28 -0.69 -0.12	39.70 -0.36 0.00	38.68 0.57 -0.11	38.10 0.60 -0.08	42.11 1.57 -0.18	43.90 1.51 -0.36	45.00 1.14 -0.03	46.90 1.05 -0.10	48.84 0.10 -0.46	68.00 -1.96 -0.10	70.02 -1.95 -2.34	72.81 -1.49 -3.50	57.86 -1.73 -2.08	48.50 -0.82 -1.35	43.20 -0.56 -0.40	42.05 0.93 -0.70
COLONIE_LFGE___ 323577	33.18 0.82 0.28	31.37 0.68 0.16	29.71 0.64 0.00	28.46 0.69 0.00	29.68 0.69 0.00	31.94 0.78 0.17	39.78 1.10 0.73	45.14 1.38 0.83	42.54 1.11 1.43	39.20 1.00 1.87	37.85 0.68 0.84	37.20 0.71 0.93	39.75 0.52 1.13	41.34 0.63 1.32	43.15 0.74 1.43	44.28 1.05 2.52	47.74 1.30 1.85	77.10 1.40 -5.84	77.04 1.46 -5.95	80.14 1.42 -7.93	56.84 1.09 1.75	47.30 0.86 1.53	42.96 0.69 1.10	39.98 0.45 0.88
COOPERNY_115KV_TB1 80082	33.56 0.78 -0.13	31.65 0.74 -0.07	29.71 0.64 0.00	28.40 0.64 0.00	29.65 0.67 0.00	32.15 0.75 -0.07	40.84 1.10 -0.33	46.30 1.34 -0.37	44.77 1.29 -0.64	42.22 1.32 -0.83	39.74 1.37 -0.37	39.34 1.50 -0.42	42.31 1.45 -0.51	44.17 1.55 -0.59	46.14 1.67 -0.64	48.52 1.65 -1.13	50.85 1.74 -0.82	73.06 1.68 -1.52	72.41 1.46 -1.32	73.59 1.27 -1.53	59.37 1.09 -0.78	49.51 0.86 -0.68	44.73 0.87 -0.49	41.50 0.69 -0.39
COPENHAGEN_WT_PWR 323753	45.57 1.08 -11.85	43.92 1.14 -11.94	42.15 1.08 -12.00	33.92 0.86 -5.30	36.01 0.93 -6.10	42.25 1.28 -9.64	52.70 1.78 -11.52	55.96 1.92 -9.46	48.47 1.33 -4.29	41.06 0.52 -0.48	38.57 0.38 -0.19	39.19 0.30 -1.46	40.94 0.28 -0.30	42.73 0.08 -0.63	43.93 0.04 -0.05	46.34 0.41 -0.18	49.61 0.53 -0.80	75.01 1.47 -3.67	80.77 2.65 -8.50	84.29 3.19 -10.31	70.30 2.53 -10.28	60.52 2.01 -10.54	54.48 1.61 -9.50	46.84 1.33 -5.09
CORNELL_____ 23752	34.51 0.95 -0.92	32.47 0.89 -0.73	30.46 0.87 -0.52	28.88 0.75 -0.36	30.33 0.84 -0.51	33.15 1.03 -0.79	41.98 1.02 -1.54	46.04 0.98 -0.48	43.59 0.56 -0.18	40.38 0.32 0.00	38.59 0.42 -0.17	37.96 0.41 -0.12	41.24 0.61 -0.27	43.22 0.63 -0.57	44.45 0.57 -0.04	46.73 0.82 -0.16	49.87 0.87 -0.72	72.57 0.98 -1.73	74.60 1.32 -3.65	77.94 1.70 -5.45	61.95 1.21 -3.24	51.08 1.01 -2.10	44.76 0.78 -0.62	42.40 0.89 -1.09



CORONA V_69_KV_TB1 355595	34.87 1.99 -0.23	32.54 1.57 -0.13	30.32 1.25 0.00	28.93 1.17 0.00	30.23 1.25 0.00	32.99 1.53 -0.13	42.24 2.25 -0.59	47.44 2.18 -0.66	46.36 2.36 -1.15	44.37 2.80 -1.51	41.95 3.27 -0.68	41.85 3.67 -0.75	44.74 3.47 -0.91	46.49 3.40 -1.06	48.45 3.46 -1.15	50.37 3.02 -1.60	53.15 3.38 -1.49	75.42 3.70 -1.85	75.21 3.20 -2.38	75.21 2.90 -1.51	60.04 2.30 -0.24	50.38 1.63 -0.78	45.77 1.56 -0.84	42.87 1.74 -0.71
CORTLAND_115KV_TB3 80093	34.20 0.62 -0.93	32.17 0.59 -0.74	30.18 0.58 -0.53	28.63 0.50 -0.37	30.08 0.58 -0.51	32.81 0.69 -0.80	41.56 0.59 -1.56	45.56 0.49 -0.48	43.20 0.17 -0.18	40.14 0.08 0.00	38.40 0.23 -0.17	37.81 0.26 -0.12	41.04 0.40 -0.28	43.02 0.42 -0.57	44.23 0.35 -0.04	46.41 0.50 -0.16	49.49 0.48 -0.73	71.82 0.21 -1.75	73.74 0.42 -3.69	76.95 0.64 -5.52	61.18 0.40 -3.28	50.53 0.43 -2.13	44.29 0.30 -0.62	42.01 0.48 -1.11
COXSACKIE__GT 23611	35.10 2.45 0.00	33.25 2.41 0.00	31.05 1.98 0.00	29.87 2.11 0.00	30.92 1.94 0.00	33.86 2.54 0.00	42.88 3.47 0.00	48.51 3.92 0.00	45.68 2.83 0.00	42.14 2.08 0.00	39.45 1.44 0.00	38.66 1.23 0.00	41.12 0.76 0.00	42.86 0.84 0.00	45.06 1.23 0.00	47.67 1.92 0.00	50.94 2.65 0.00	71.76 3.91 2.01	72.28 4.59 1.94	72.71 4.39 2.47	61.46 3.96 0.00	51.18 3.21 0.00	45.97 2.60 0.00	42.76 2.34 0.00
CPV_VALLEY__CC1 323721	33.70 0.88 -0.17	31.71 0.77 -0.09	29.68 0.61 0.00	28.40 0.64 0.00	29.65 0.67 0.00	32.24 0.81 -0.10	41.06 1.22 -0.43	46.60 1.52 -0.49	45.15 1.46 -0.84	42.73 1.56 -1.10	40.13 1.63 -0.50	39.74 1.76 -0.55	42.72 1.69 -0.67	44.61 1.81 -0.78	46.65 1.97 -0.85	49.21 1.97 -1.49	51.40 2.03 -1.09	73.90 2.03 -2.01	73.04 1.67 -1.75	74.30 1.49 -2.02	59.75 1.21 -1.04	49.78 0.91 -0.91	44.93 0.91 -0.65	41.62 0.69 -0.52
CPV_VALLEY__CC2 323722	33.70 0.88 -0.17	31.71 0.77 -0.09	29.68 0.61 0.00	28.40 0.64 0.00	29.65 0.67 0.00	32.24 0.81 -0.10	41.06 1.22 -0.43	46.60 1.52 -0.49	45.15 1.46 -0.84	42.73 1.56 -1.10	40.13 1.63 -0.50	39.74 1.76 -0.55	42.72 1.69 -0.67	44.61 1.81 -0.78	46.65 1.97 -0.85	49.21 1.97 -1.49	51.40 2.03 -1.09	73.90 2.03 -2.01	73.04 1.67 -1.75	74.30 1.49 -2.02	59.75 1.21 -1.04	49.78 0.91 -0.91	44.93 0.91 -0.65	41.62 0.69 -0.52
CRESCENT__HYD 24018	33.18 0.82 0.28	31.37 0.68 0.16	29.71 0.64 0.00	28.46 0.69 0.00	29.68 0.69 0.00	31.94 0.78 0.17	39.78 1.10 0.73	45.14 1.38 0.83	42.54 1.11 1.43	39.20 1.00 1.87	37.85 0.68 0.84	37.20 0.71 0.93	39.75 0.52 1.13	41.34 0.63 1.32	43.15 0.74 1.43	44.28 1.05 2.52	47.74 1.30 1.85	77.10 1.40 -5.84	77.04 1.46 -5.95	80.14 1.42 -7.93	56.84 1.09 1.75	47.30 0.86 1.53	42.96 0.69 1.10	39.98 0.45 0.88
CRICKET__VALLEY_CC1 323756	29.86 0.69 3.47	29.47 0.56 1.93	29.44 0.38 0.00	28.24 0.47 0.00	29.44 0.46 0.00	29.87 0.59 2.05	31.47 1.10 9.04	35.68 1.38 10.30	26.54 1.37 17.68	18.46 1.52 23.12	29.13 1.52 10.39	27.57 1.72 11.58	27.91 1.57 14.02	27.33 1.64 16.33	27.90 1.80 17.73	16.27 1.78 31.26	27.33 1.93 22.89	30.01 1.81 41.67	34.87 1.39 36.15	30.22 1.20 41.77	36.72 0.92 21.70	29.63 0.62 18.96	30.31 0.61 13.67	29.85 0.36 10.93
CRICKET__VALLEY_CC2 323757	29.86 0.69 3.47	29.47 0.56 1.93	29.44 0.38 0.00	28.24 0.47 0.00	29.44 0.46 0.00	29.87 0.59 2.05	31.47 1.10 9.04	35.68 1.38 10.30	26.54 1.37 17.68	18.46 1.52 23.12	29.13 1.52 10.39	27.57 1.72 11.58	27.91 1.57 14.02	27.33 1.64 16.33	27.90 1.80 17.73	16.27 1.78 31.26	27.33 1.93 22.89	30.01 1.81 41.67	34.87 1.39 36.15	30.22 1.20 41.77	36.72 0.92 21.70	29.63 0.62 18.96	30.31 0.61 13.67	29.85 0.36 10.93
CRICKET__VALLEY_CC3 323758	29.86 0.69 3.47	29.47 0.56 1.93	29.44 0.38 0.00	28.24 0.47 0.00	29.44 0.46 0.00	29.87 0.59 2.05	31.47 1.10 9.04	35.68 1.38 10.30	26.54 1.37 17.68	18.46 1.52 23.12	29.13 1.52 10.39	27.57 1.72 11.58	27.91 1.57 14.02	27.33 1.64 16.33	27.90 1.80 17.73	16.27 1.78 31.26	27.33 1.93 22.89	30.01 1.81 41.67	34.87 1.39 36.15	30.22 1.20 41.77	36.72 0.92 21.70	29.63 0.62 18.96	30.31 0.61 13.67	29.85 0.36 10.93
CRUCIBLE_METL_DRP 24180	35.34 0.20 -2.49	33.27 0.19 -2.24	31.20 0.17 -1.95	28.95 0.14 -1.05	30.49 0.17 -1.33	33.66 0.25 -2.09	42.81 0.08 -3.32	46.22 0.00 -1.63	43.32 -0.21 -0.69	39.83 -0.28 -0.05	38.07 -0.19 -0.26	37.63 -0.11 -0.32	40.73 -0.04 -0.41	42.83 -0.04 -0.85	43.81 -0.09 -0.06	46.03 0.05 -0.24	49.36 0.00 -1.08	72.42 -0.21 -2.77	75.42 -0.14 -5.93	79.48 0.07 -8.62	62.99 -0.06 -5.55	51.92 -0.05 -4.00	45.02 -0.17 -1.83	42.41 -0.04 -2.04
DAHOWA__HYDRO 323763	33.68 1.27 0.24	31.76 1.05 0.13	30.08 1.02 0.00	28.79 1.03 0.00	30.06 1.07 0.00	32.44 1.25 0.14	40.24 1.46 0.63	45.70 1.83 0.72	42.69 1.07 1.23	39.13 0.68 1.61	37.47 0.19 0.73	36.73 0.11 0.81	39.22 -0.16 0.98	40.97 0.08 1.14	42.86 0.26 1.24	44.26 0.69 2.18	47.94 1.25 1.60	74.64 1.75 -3.03	75.19 2.37 -3.19	77.79 2.62 -4.37	57.94 1.96 1.51	48.28 1.63 1.32	43.71 1.30 0.95	40.50 0.85 0.76
DANC__LFGE 323619	41.77 0.59 -8.54	39.94 0.62 -8.48	38.07 0.61 -8.39	32.00 0.44 -3.79	33.89 0.49 -4.42	39.02 0.72 -6.98	49.06 0.94 -8.71	52.22 0.98 -6.65	46.44 0.60 -2.99	40.47 0.08 -0.33	38.24 0.00 -0.24	38.45 -0.04 -1.06	40.65 -0.08 -0.37	42.59 -0.21 -0.78	43.63 -0.26 -0.06	45.92 -0.05 -0.22	49.31 0.05 -0.98	73.76 0.35 -3.55	78.73 1.11 -7.99	82.68 1.56 -10.34	67.58 1.15 -8.93	57.32 0.96 -8.40	50.88 0.74 -6.77	45.13 0.61 -4.10
DANSKAMMER__1 23586	34.48 1.66 -0.17	32.45 1.51 -0.09	30.32 1.25 0.00	29.04 1.28 0.00	30.26 1.27 0.00	32.93 1.50 -0.10	42.13 2.28 -0.44	47.76 2.68 -0.50	46.23 2.53 -0.86	43.75 2.57 -1.12	41.01 2.51 -0.50	40.65 2.66 -0.56	43.70 2.66 -0.68	45.71 2.90 -0.79	47.85 3.16 -0.86	50.52 3.25 -1.52	52.82 3.43 -1.11	75.82 3.91 -2.05	74.95 3.55 -1.78	76.18 3.33 -2.06	61.31 2.76 -1.05	51.05 2.16 -0.92	45.98 1.95 -0.66	42.56 1.62 -0.53
DANSKAMMER__2 23589	34.48 1.66 -0.17	32.45 1.51 -0.09	30.32 1.25 0.00	29.04 1.28 0.00	30.26 1.27 0.00	32.93 1.50 -0.10	42.13 2.28 -0.44	47.76 2.68 -0.50	46.23 2.53 -0.86	43.75 2.57 -1.12	41.01 2.51 -0.50	40.65 2.66 -0.56	43.70 2.66 -0.68	45.71 2.90 -0.79	47.85 3.16 -0.86	50.52 3.25 -1.52	52.82 3.43 -1.11	75.82 3.91 -2.05	74.95 3.55 -1.78	76.18 3.33 -2.06	61.31 2.76 -1.05	51.05 2.16 -0.92	45.98 1.95 -0.66	42.56 1.62 -0.53
DANSKAMMER__3 23590	34.48 1.66 -0.17	32.45 1.51 -0.09	30.32 1.25 0.00	29.04 1.28 0.00	30.26 1.27 0.00	32.93 1.50 -0.10	42.13 2.28 -0.44	47.76 2.68 -0.50	46.23 2.53 -0.86	43.75 2.57 -1.12	41.01 2.51 -0.50	40.65 2.66 -0.56	43.70 2.66 -0.68	45.71 2.90 -0.79	47.85 3.16 -0.86	50.52 3.25 -1.52	52.82 3.43 -1.11	75.82 3.91 -2.05	74.95 3.55 -1.78	76.18 3.33 -2.06	61.31 2.76 -1.05	51.05 2.16 -0.92	45.98 1.95 -0.66	42.56 1.62 -0.53



DANSKAMMER___4 23591	34.48 1.66 -0.17	32.45 1.51 -0.09	30.32 1.25 0.00	29.04 1.28 0.00	30.26 1.27 0.00	32.93 1.50 -0.10	42.13 2.28 -0.44	47.76 2.68 -0.50	46.23 2.53 -0.86	43.75 2.57 -1.12	41.01 2.51 -0.50	40.65 2.66 -0.56	43.70 2.66 -0.68	45.71 2.90 -0.79	47.85 3.16 -0.86	50.52 3.25 -1.52	52.82 3.43 -1.11	75.82 3.91 -2.05	74.95 3.55 -1.78	76.18 3.33 -2.06	61.31 2.76 -1.05	51.05 2.16 -0.92	45.98 1.95 -0.66	42.56 1.62 -0.53
DANSKAMMER___DIESEL 23592	34.48 1.67 -0.17	32.45 1.51 -0.09	30.38 1.31 0.00	29.07 1.30 0.00	30.26 1.28 0.00	32.93 1.50 -0.10	42.17 2.33 -0.44	47.81 2.72 -0.50	46.32 2.61 -0.86	43.79 2.60 -1.12	41.09 2.58 -0.50	40.72 2.73 -0.56	43.78 2.74 -0.68	45.71 2.90 -0.79	47.89 3.20 -0.86	50.52 3.25 -1.52	52.82 3.43 -1.11	75.82 3.91 -2.05	75.03 3.62 -1.78	76.18 3.33 -2.06	61.31 2.76 -1.05	51.09 2.21 -0.92	46.07 2.04 -0.66	42.60 1.66 -0.53
DARBY___SOLAR 323810	33.57 1.17 0.25	31.66 0.96 0.14	30.03 0.96 0.00	28.71 0.94 0.00	30.00 1.01 0.00	32.30 1.13 0.15	40.14 1.38 0.65	45.59 1.74 0.74	42.61 1.03 1.26	39.09 0.68 1.65	37.49 0.23 0.74	36.75 0.15 0.83	39.23 -0.12 1.00	40.94 0.08 1.17	42.83 0.26 1.27	44.20 0.69 2.23	47.85 1.21 1.64	74.82 1.67 -3.28	75.30 2.23 -3.44	77.90 2.41 -4.70	57.73 1.78 1.55	48.05 1.44 1.35	43.56 1.17 0.98	40.40 0.77 0.78
DASHVILLE___HYD 23610	34.42 1.67 -0.11	32.41 1.51 -0.06	30.17 1.10 0.00	28.90 1.14 0.00	30.08 1.10 0.00	32.89 1.50 -0.06	42.01 2.33 -0.27	47.62 2.72 -0.31	46.00 2.61 -0.54	43.33 2.56 -0.70	40.75 2.43 -0.32	40.36 2.58 -0.35	43.37 2.58 -0.43	45.29 2.77 -0.50	47.44 3.07 -0.54	49.86 3.16 -0.95	52.45 3.48 -0.69	75.19 4.05 -1.28	74.43 3.69 -1.11	75.48 3.40 -1.29	61.03 2.88 -0.66	50.80 2.25 -0.58	45.86 2.08 -0.41	42.44 1.70 -0.33
DELAWARE___LFGE 323621	33.89 0.88 -0.36	32.06 0.93 -0.29	30.17 0.90 -0.21	28.74 0.83 -0.14	30.08 0.90 -0.20	32.54 0.91 -0.31	41.16 1.14 -0.61	46.07 1.29 -0.19	43.95 1.03 -0.07	40.90 0.84 0.00	38.91 0.84 -0.07	38.37 0.90 -0.05	41.39 0.93 -0.11	43.21 0.97 -0.22	44.86 1.01 -0.02	47.00 1.19 -0.06	49.77 1.21 -0.28	71.66 1.12 -0.68	72.25 1.18 -1.44	74.22 1.27 -2.15	59.93 1.15 -1.28	49.80 1.01 -0.83	44.52 0.91 -0.24	41.69 0.85 -0.43
DERFIELD_115KV_TB7 355931	33.87 0.13 -1.09	32.12 0.15 -1.12	30.37 0.15 -1.15	28.40 0.14 -0.49	29.69 0.14 -0.56	32.37 0.16 -0.89	40.64 0.24 -0.99	45.76 0.27 -0.90	43.48 0.21 -0.41	40.27 0.16 -0.05	38.12 0.11 0.00	37.71 0.15 -0.13	40.44 0.08 0.00	42.15 0.13 0.00	43.97 0.13 0.00	45.93 0.18 0.00	48.48 0.19 0.00	70.11 0.07 -0.18	70.15 0.07 -0.45	71.29 0.07 -0.43	58.29 0.11 -0.68	48.84 0.05 -0.83	44.30 0.04 -0.89	40.81 0.00 -0.39
DOGLEVILLE___HYD 23807	33.77 0.03 -1.09	32.06 0.09 -1.12	30.31 0.09 -1.15	28.31 0.06 -0.49	29.60 0.06 -0.56	32.34 0.13 -0.89	40.64 0.24 -0.99	45.71 0.22 -0.90	43.35 0.09 -0.41	40.03 -0.08 -0.05	37.89 -0.11 0.00	37.49 -0.07 -0.13	40.16 -0.20 0.00	41.77 -0.25 0.00	43.57 -0.26 0.00	45.57 -0.18 0.00	48.04 -0.24 0.00	69.48 -0.56 -0.18	69.66 -0.42 -0.45	70.80 -0.42 -0.43	57.89 -0.29 -0.68	48.60 -0.19 -0.83	44.08 -0.17 -0.89	40.60 -0.20 -0.39
DUNKIRK___115KV_TB_200 55889	34.73 1.50 -0.58	32.79 1.48 -0.46	30.65 1.25 -0.33	28.99 1.00 -0.23	30.49 1.19 -0.32	33.39 1.57 -0.50	40.58 0.20 -0.98	44.22 -0.67 -0.30	41.55 -1.41 -0.11	39.02 -1.04 0.00	38.04 -0.08 -0.11	37.50 0.00 -0.08	41.50 0.97 -0.17	43.26 0.88 -0.36	44.39 0.53 -0.03	46.17 0.32 -0.10	48.45 -0.29 -0.45	67.26 -2.65 -0.05	69.36 -2.58 -2.31	72.12 -2.12 -3.45	57.31 -2.24 -2.05	48.15 -1.15 -1.33	42.67 -1.08 -0.39	41.63 0.53 -0.69
DUNKIRK___1 23563	34.73 1.50 -0.58	32.79 1.48 -0.46	30.65 1.25 -0.33	28.99 1.00 -0.23	30.49 1.19 -0.32	33.39 1.57 -0.50	40.58 0.20 -0.98	44.22 -0.67 -0.30	41.55 -1.41 -0.11	39.02 -1.04 0.00	38.04 -0.08 -0.11	37.50 0.00 -0.08	41.50 0.97 -0.17	43.26 0.88 -0.36	44.39 0.53 -0.03	46.17 0.32 -0.10	48.45 -0.29 -0.45	67.26 -2.65 -0.05	69.36 -2.58 -2.31	72.12 -2.12 -3.45	57.31 -2.24 -2.05	48.15 -1.15 -1.33	42.67 -1.08 -0.39	41.63 0.53 -0.69
DUNKIRK___2 23564	34.73 1.50 -0.58	32.79 1.48 -0.46	30.65 1.25 -0.33	28.99 1.00 -0.23	30.49 1.19 -0.32	33.39 1.57 -0.50	40.58 0.20 -0.98	44.22 -0.67 -0.30	41.55 -1.41 -0.11	39.02 -1.04 0.00	38.04 -0.08 -0.11	37.50 0.00 -0.08	41.50 0.97 -0.17	43.26 0.88 -0.36	44.39 0.53 -0.03	46.17 0.32 -0.10	48.45 -0.29 -0.45	67.26 -2.65 -0.05	69.36 -2.58 -2.31	72.12 -2.12 -3.45	57.31 -2.24 -2.05	48.15 -1.15 -1.33	42.67 -1.08 -0.39	41.63 0.53 -0.69
DUNKIRK___3 23565	34.50 1.27 -0.58	32.60 1.30 -0.46	30.44 1.05 -0.33	28.83 0.83 -0.23	30.29 0.99 -0.32	33.17 1.35 -0.50	40.27 -0.12 -0.98	43.86 -1.03 -0.30	41.21 -1.76 -0.11	38.70 -1.36 0.00	37.73 -0.38 -0.11	37.20 -0.30 -0.08	41.14 0.61 -0.17	42.93 0.55 -0.36	44.08 0.22 -0.03	45.81 -0.05 -0.10	48.06 -0.68 -0.45	66.77 -3.14 -0.05	68.87 -3.06 -2.31	71.56 -2.69 -3.45	56.96 -2.59 -2.05	47.81 -1.49 -1.33	42.41 -1.34 -0.39	41.43 0.32 -0.69
DUNKIRK___4 23566	34.50 1.27 -0.58	32.60 1.30 -0.46	30.44 1.05 -0.33	28.83 0.83 -0.23	30.29 0.99 -0.32	33.17 1.35 -0.50	40.27 -0.12 -0.98	43.86 -1.03 -0.30	41.21 -1.76 -0.11	38.70 -1.36 0.00	37.73 -0.38 -0.11	37.20 -0.30 -0.08	41.14 0.61 -0.17	42.93 0.55 -0.36	44.08 0.22 -0.03	45.81 -0.05 -0.10	48.06 -0.68 -0.45	66.77 -3.14 -0.05	68.87 -3.06 -2.31	71.56 -2.69 -3.45	56.96 -2.59 -2.05	47.81 -1.49 -1.33	42.41 -1.34 -0.39	41.43 0.32 -0.69
DUNWOODS_138_KV_38W08_REV_LBMP_I 345000	34.41 1.53 -0.23	32.30 1.33 -0.13	30.17 1.10 0.00	28.85 1.08 0.00	30.11 1.13 0.00	32.81 1.35 -0.13	42.17 2.17 -0.59	47.89 2.63 -0.67	46.70 2.70 -1.15	44.41 2.84 -1.51	41.61 2.93 -0.68	41.36 3.18 -0.75	44.42 3.15 -0.91	46.36 3.28 -1.06	48.49 3.51 -1.15	51.13 3.34 -2.04	53.35 3.57 -1.49	76.59 3.98 -2.75	75.50 3.48 -2.39	76.74 3.19 -2.76	61.44 2.53 -1.41	51.07 1.87 -1.24	46.08 1.82 -0.89	42.62 1.50 -0.71
E.WALDEN_115_KV_TR_1_REV_LBMP_G 345009	34.16 1.34 -0.18	32.11 1.17 -0.10	30.09 1.02 0.00	28.79 1.03 0.00	30.00 1.01 0.00	32.65 1.22 -0.10	41.72 1.85 -0.46	47.30 2.18 -0.53	45.89 2.14 -0.90	43.44 2.20 -1.18	40.74 2.20 -0.53	40.38 2.36 -0.59	43.41 2.34 -0.72	45.34 2.48 -0.83	47.46 2.72 -0.91	50.05 2.70 -1.60	52.30 2.85 -1.17	75.16 3.14 -2.15	74.28 2.79 -1.87	75.50 2.55 -2.16	60.68 2.07 -1.11	50.61 1.68 -0.97	45.63 1.56 -0.70	42.23 1.25 -0.56
E179THST_138_KV_TB4_REV_LBMP_J 345001	34.67 1.80 -0.23	32.48 1.51 -0.13	30.29 1.22 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.71 1.25 -0.13	42.05 2.05 -0.59	47.80 2.54 -0.67	46.74 2.74 -1.15	44.41 2.84 -1.51	41.72 3.04 -0.68	41.47 3.29 -0.75	44.50 3.23 -0.91	46.45 3.36 -1.07	48.59 3.59 -1.16	51.17 3.39 -2.04	53.40 3.62 -1.50	76.66 4.05 -2.75	75.43 3.41 -2.39	76.60 3.04 -2.76	61.27 2.36 -1.41	50.88 1.68 -1.24	46.12 1.86 -0.89	42.82 1.70 -0.71



E179THST_13_KV_LOAD 356214	34.83 1.96 -0.23	32.63 1.67 -0.13	30.41 1.34 0.00	29.01 1.25 0.00	30.26 1.28 0.00	32.87 1.41 -0.13	42.24 2.25 -0.59	48.07 2.81 -0.67	46.96 2.96 -1.15	44.61 3.04 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.75	44.74 3.47 -0.91	46.75 3.66 -1.07	48.85 3.86 -1.16	51.45 3.66 -2.04	53.74 3.96 -1.50	77.08 4.47 -2.75	75.91 3.90 -2.39	77.09 3.54 -2.76	61.62 2.70 -1.41	51.17 1.97 -1.24	46.38 2.12 -0.89	43.07 1.94 -0.71
EAST HAMPTON___GT 23717	35.13 2.25 -0.23	32.73 1.76 -0.13	30.46 1.40 0.00	29.04 1.28 0.00	30.43 1.45 0.00	33.21 1.75 -0.13	42.48 2.48 -0.59	47.35 2.10 -0.66	46.39 2.40 -1.14	44.81 3.24 -1.51	42.67 3.99 -0.68	42.52 4.34 -0.75	45.31 4.04 -0.91	46.95 3.86 -1.06	48.93 3.95 -1.15	47.20 3.84 2.40	53.91 4.15 -1.48	68.60 5.03 6.30	76.46 4.46 -2.37	64.99 4.10 9.91	49.86 2.87 10.51	46.62 1.97 3.31	44.97 1.13 -0.48	42.58 1.45 -0.71
EAST RIVER___6 23660	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.93 1.17 0.00	30.23 1.25 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.07 2.81 -0.67	46.87 2.87 -1.15	44.57 3.01 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.81 3.81 -1.16	51.49 3.70 -2.04	53.69 3.91 -1.50	77.09 4.48 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.73 2.82 -1.41	51.22 2.01 -1.24	46.25 2.00 -0.89	42.82 1.70 -0.71
EAST RIVER___7 23524	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.93 1.17 0.00	30.23 1.25 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.07 2.81 -0.67	46.87 2.87 -1.15	44.57 3.01 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.81 3.81 -1.16	51.49 3.70 -2.04	53.69 3.91 -1.50	77.09 4.48 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.73 2.82 -1.41	51.22 2.01 -1.24	46.25 2.00 -0.89	42.82 1.70 -0.71
EASTVIEW_138_KV_38W32_REV_LBMP_I 345002	34.34 1.47 -0.23	32.23 1.26 -0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.08 1.10 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	47.80 2.54 -0.67	46.61 2.61 -1.15	44.29 2.72 -1.51	41.49 2.81 -0.68	41.25 3.07 -0.75	44.30 3.03 -0.91	46.24 3.15 -1.07	48.37 3.38 -1.16	50.99 3.20 -2.03	53.20 3.43 -1.49	76.45 3.84 -2.74	75.35 3.34 -2.38	76.59 3.04 -2.76	61.33 2.42 -1.41	51.02 1.82 -1.23	45.99 1.73 -0.89	42.58 1.45 -0.71
EAST_HAMPTON___DIESEL 23722	35.13 2.25 -0.23	32.70 1.73 -0.13	30.43 1.37 0.00	29.01 1.25 0.00	30.43 1.45 0.00	33.21 1.75 -0.13	42.44 2.44 -0.59	47.30 2.05 -0.66	46.35 2.36 -1.14	44.81 3.24 -1.51	42.67 3.99 -0.68	42.52 4.34 -0.75	45.31 4.04 -0.91	46.95 3.86 -1.06	48.93 3.95 -1.15	47.20 3.84 2.40	53.91 4.15 -1.48	68.60 5.03 6.30	76.46 4.46 -2.37	64.99 4.10 9.91	49.86 2.87 10.51	46.62 1.97 3.31	44.93 1.08 -0.48	42.54 1.41 -0.71
EAST_POINT___SOLAR 323840	34.87 2.35 0.13	32.90 2.13 0.07	31.13 2.06 0.00	29.71 1.94 0.00	31.10 2.11 0.00	33.69 2.44 0.08	41.99 2.92 0.33	47.24 3.03 0.38	43.18 0.99 0.65	38.85 -0.36 0.85	36.52 -1.10 0.38	35.84 -1.16 0.43	38.39 -1.45 0.52	40.12 -1.30 0.60	41.91 -1.27 0.65	43.68 -0.91 1.15	47.29 -0.14 0.84	69.71 1.40 1.56	72.74 4.46 1.35	74.96 5.73 1.56	61.07 4.37 0.80	50.96 3.69 0.70	45.85 2.99 0.50	42.56 2.55 0.40
EAST_PULASKI___ESR 323781	38.26 0.10 -5.52	36.23 0.12 -5.27	34.19 0.15 -4.98	30.24 0.08 -2.40	31.96 0.09 -2.89	36.10 0.22 -4.55	45.94 0.20 -6.33	48.74 0.13 -4.02	44.53 -0.09 -1.77	39.91 -0.32 -0.17	38.02 -0.31 -0.32	37.81 -0.30 -0.69	40.43 -0.44 -0.51	42.58 -0.50 -1.06	43.34 -0.57 -0.08	45.59 -0.46 -0.30	49.14 -0.48 -1.34	73.58 -0.77 -4.49	77.68 -0.35 -8.40	82.43 -0.07 -11.71	65.74 -0.17 -8.41	54.64 -0.14 -6.82	47.44 -0.17 -4.25	43.66 -0.16 -3.41
EAST_RIVER___1 323558	34.54 1.66 -0.23	32.39 1.42 -0.13	30.17 1.10 0.00	28.90 1.14 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.40 2.40 -0.59	48.07 2.81 -0.67	46.92 2.92 -1.15	44.57 3.01 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.72 -1.16	51.49 3.70 -2.04	53.69 3.91 -1.50	77.09 4.48 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.67 2.76 -1.41	51.26 2.06 -1.24	46.21 1.95 -0.89	42.75 1.62 -0.71
EAST_RIVER___2 323559	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.93 1.17 0.00	30.23 1.25 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.07 2.81 -0.67	46.87 2.87 -1.15	44.57 3.01 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.81 3.81 -1.16	51.49 3.70 -2.04	53.69 3.91 -1.50	77.09 4.48 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.73 2.82 -1.41	51.22 2.01 -1.24	46.25 2.00 -0.89	42.82 1.70 -0.71
EAST___DELAWARE_HYD 23607	34.34 1.57 -0.13	32.39 1.48 -0.07	30.32 1.25 0.00	29.04 1.28 0.00	30.23 1.25 0.00	32.87 1.47 -0.08	41.99 2.25 -0.33	47.55 2.59 -0.38	45.81 2.31 -0.65	43.07 2.16 -0.85	40.43 2.05 -0.38	40.02 2.17 -0.42	43.05 2.18 -0.51	45.10 2.48 -0.60	47.20 2.72 -0.65	49.83 2.93 -1.15	52.31 3.19 -0.84	75.18 3.77 -1.54	74.59 3.62 -1.34	75.74 3.40 -1.55	61.23 2.93 -0.80	50.96 2.30 -0.69	45.91 2.04 -0.50	42.43 1.62 -0.40
EIGHT_POINT___WT_PWR 323820	34.88 1.50 -0.73	32.81 1.39 -0.58	30.97 1.48 -0.42	29.19 1.14 -0.29	30.58 1.19 -0.41	33.49 1.53 -0.63	41.31 0.67 -1.23	45.06 0.09 -0.38	42.65 -0.34 -0.14	39.70 -0.36 0.00	38.14 0.00 -0.14	37.48 -0.04 -0.10	41.22 0.64 -0.22	43.11 0.63 -0.45	44.18 0.31 -0.03	45.88 0.00 -0.13	48.47 -0.39 -0.57	68.94 -1.68 -0.75	71.63 -0.91 -2.91	74.86 -0.28 -4.35	59.57 -0.52 -2.59	49.55 -0.10 -1.68	43.73 -0.13 -0.49	42.14 0.85 -0.87
ELBRIDGE_115KV_TB2 80188	35.17 0.10 -2.42	33.12 0.12 -2.15	31.01 0.09 -1.86	28.83 0.06 -1.01	30.37 0.09 -1.30	33.51 0.16 -2.03	42.66 -0.04 -3.30	45.97 -0.18 -1.56	43.12 -0.39 -0.65	39.66 -0.44 -0.04	37.97 -0.30 -0.27	37.47 -0.26 -0.31	40.62 -0.16 -0.42	42.78 -0.13 -0.88	43.68 -0.22 -0.07	45.90 -0.09 -0.25	49.25 -0.14 -1.12	72.22 -0.49 -2.84	75.29 -0.42 -6.08	79.44 -0.21 -8.86	62.86 -0.29 -5.65	51.75 -0.24 -4.02	44.83 -0.30 -1.77	42.31 -0.16 -2.05
ELEC_TRO_TEK 24086	34.64 1.76 -0.23	32.33 1.36 -0.13	30.14 1.08 0.00	28.74 0.97 0.00	30.05 1.07 0.00	32.81 1.35 -0.13	42.05 2.05 -0.59	47.17 1.92 -0.67	46.10 2.10 -1.15	44.13 2.56 -1.51	41.72 3.04 -0.68	41.62 3.44 -0.75	44.46 3.19 -0.91	46.15 3.07 -1.06	48.14 3.16 -1.15	49.39 2.65 -0.98	52.76 2.99 -1.49	73.54 3.07 -0.60	74.58 2.58 -2.38	72.81 2.27 0.25	57.86 1.78 1.42	49.32 1.20 -0.15	45.33 1.17 -0.79	42.54 1.41 -0.71
ELLENBURG_WT_PWR 323604	35.86 0.59 -2.62	33.94 0.40 -2.69	32.12 0.29 -2.77	29.15 0.20 -1.19	30.50 0.17 -1.34	33.57 0.13 -2.12	42.14 0.35 -2.38	47.15 0.40 -2.16	44.36 0.52 -0.99	40.82 0.64 -0.12	38.53 0.53 0.00	38.20 0.45 -0.32	40.92 0.56 0.00	42.36 0.33 0.00	44.01 0.18 0.00	45.07 -0.69 0.00	47.46 -0.82 0.00	70.64 0.35 -0.43	71.33 0.63 -1.08	72.53 0.71 -1.03	59.69 0.57 -1.62	50.38 0.43 -1.99	46.11 0.61 -2.14	42.36 1.01 -0.94



ELM_ST_23_KV_LD_REV_LBMP_A 345012	34.17 0.95 -0.57	32.35 1.05 -0.46	30.18 0.78 -0.33	28.60 0.61 -0.23	30.00 0.70 -0.32	32.79 0.97 -0.49	39.70 -0.67 -0.96	43.15 -1.74 -0.30	40.65 -2.31 -0.11	38.14 -1.92 0.00	37.20 -0.91 -0.11	36.71 -0.79 -0.07	40.65 0.12 -0.17	42.46 0.08 -0.35	43.60 -0.26 -0.03	45.21 -0.64 -0.10	47.47 -1.26 -0.45	65.94 -3.91 0.01	68.08 -3.83 -2.28	70.73 -3.47 -3.40	56.30 -3.22 -2.02	47.27 -2.01 -1.31	41.93 -1.82 -0.38	41.10 0.00 -0.68
EMPIRE_CC_1 323656	32.61 0.26 0.29	30.87 0.19 0.16	29.21 0.15 0.00	28.07 0.31 0.00	29.21 0.23 0.00	31.37 0.22 0.17	39.12 0.47 0.76	44.34 0.62 0.87	41.91 0.56 1.49	38.67 0.56 1.95	37.43 0.30 0.88	36.82 0.37 0.98	39.30 0.12 1.18	40.81 0.17 1.38	42.60 0.26 1.50	43.57 0.46 2.64	46.88 0.53 1.93	60.28 0.07 9.65	60.67 0.00 8.96	59.59 -0.14 11.06	55.56 -0.11 1.83	46.23 -0.14 1.60	42.08 -0.13 1.15	39.17 -0.32 0.92
EMPIRE_CC_2 323658	32.61 0.26 0.29	30.87 0.19 0.16	29.21 0.15 0.00	28.07 0.31 0.00	29.21 0.23 0.00	31.37 0.22 0.17	39.12 0.47 0.76	44.34 0.62 0.87	41.91 0.56 1.49	38.67 0.56 1.95	37.43 0.30 0.88	36.82 0.37 0.98	39.30 0.12 1.18	40.81 0.17 1.38	42.60 0.26 1.50	43.57 0.46 2.64	46.88 0.53 1.93	60.28 0.07 9.65	60.67 0.00 8.96	59.59 -0.14 11.06	55.56 -0.11 1.83	46.23 -0.14 1.60	42.08 -0.13 1.15	39.17 -0.32 0.92
ENORWICH_115KV_TB1 80156	35.61 2.25 -0.71	33.69 2.28 -0.56	31.59 2.12 -0.40	29.90 1.86 -0.28	31.43 2.06 -0.39	34.50 2.57 -0.61	43.83 3.23 -1.19	48.34 3.39 -0.37	45.39 2.40 -0.14	41.42 1.36 0.00	39.39 1.25 -0.13	38.68 1.16 -0.09	41.90 1.33 -0.21	43.76 1.30 -0.44	45.18 1.32 -0.03	47.89 2.01 -0.12	51.25 2.41 -0.55	75.04 3.84 -1.33	77.59 5.15 -2.81	80.87 5.88 -4.20	64.60 4.60 -2.50	53.28 3.69 -1.62	46.88 3.04 -0.47	44.13 2.87 -0.84
ERIE_ST__34_KV_TB1-2 80199	34.24 1.01 -0.58	32.35 1.05 -0.46	30.21 0.81 -0.33	28.60 0.61 -0.23	30.06 0.75 -0.32	32.92 1.10 -0.50	39.95 -0.43 -0.97	43.37 -1.52 -0.30	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.39 -0.72 -0.11	36.86 -0.64 -0.07	40.81 0.28 -0.17	42.63 0.25 -0.36	43.77 -0.09 -0.03	45.48 -0.37 -0.10	47.72 -1.01 -0.45	66.19 -3.70 -0.03	68.31 -3.62 -2.30	70.97 -3.26 -3.43	56.49 -3.05 -2.04	47.37 -1.92 -1.33	42.06 -1.69 -0.39	41.23 0.12 -0.69
ERIE_WT_PWR 323693	34.30 1.08 -0.58	32.47 1.17 -0.46	30.67 1.28 -0.33	28.88 0.89 -0.23	30.14 0.84 -0.32	32.95 1.13 -0.50	39.99 -0.39 -0.97	43.59 -1.29 -0.30	41.59 -1.37 -0.11	39.06 -1.00 0.00	37.73 -0.38 -0.11	37.16 -0.34 -0.07	41.17 0.64 -0.17	43.05 0.67 -0.36	44.25 0.39 -0.03	45.62 -0.23 -0.10	47.87 -0.87 -0.45	66.46 -3.42 -0.02	68.72 -3.20 -2.29	71.25 -2.97 -3.43	56.89 -2.64 -2.04	47.66 -1.63 -1.32	42.50 -1.26 -0.39	41.35 0.24 -0.69
ESPRGFLD_115KV_TB1 80157	34.52 1.80 -0.08	32.65 1.73 -0.08	30.82 1.66 -0.09	29.35 1.53 -0.06	30.75 1.68 -0.09	33.29 1.88 -0.09	41.79 2.33 -0.06	46.97 2.54 0.16	44.10 1.63 0.38	40.53 1.00 0.54	38.55 0.76 0.21	37.89 0.71 0.25	40.85 0.77 0.28	42.58 0.84 0.28	44.35 0.92 0.40	46.34 1.28 0.70	49.57 1.69 0.41	71.77 2.58 0.68	73.03 3.62 0.21	74.79 4.04 0.03	60.78 3.22 -0.06	50.58 2.69 0.07	45.46 2.30 0.21	42.41 2.06 0.06
ETNA_115_KV_TB1_REV_LBMP_C 345029	34.49 0.91 -0.93	32.41 0.83 -0.74	30.41 0.81 -0.53	28.82 0.69 -0.37	30.31 0.81 -0.51	33.10 0.97 -0.80	41.95 0.99 -1.56	45.96 0.89 -0.48	43.54 0.51 -0.18	40.34 0.28 0.00	38.56 0.38 -0.17	37.92 0.37 -0.12	41.16 0.52 -0.28	43.14 0.55 -0.57	44.40 0.53 -0.04	46.64 0.73 -0.16	49.83 0.82 -0.73	72.45 0.84 -1.75	74.50 1.18 -3.69	77.87 1.56 -5.52	61.87 1.09 -3.28	51.01 0.91 -2.13	44.68 0.69 -0.62	42.37 0.85 -1.11
ETNA____115KV_TB2 80207	34.49 0.91 -0.93	32.41 0.83 -0.74	30.41 0.81 -0.53	28.82 0.69 -0.37	30.31 0.81 -0.51	33.10 0.97 -0.80	41.95 0.99 -1.56	45.96 0.89 -0.48	43.54 0.51 -0.18	40.34 0.28 0.00	38.56 0.38 -0.17	37.92 0.37 -0.12	41.16 0.52 -0.28	43.14 0.55 -0.57	44.40 0.53 -0.04	46.64 0.73 -0.16	49.83 0.82 -0.73	72.45 0.84 -1.75	74.50 1.18 -3.69	77.87 1.56 -5.52	61.87 1.09 -3.28	51.01 0.91 -2.13	44.68 0.69 -0.62	42.37 0.85 -1.11
EUCLID___115KV_TB2 356179	34.69 -0.16 -2.21	32.78 -0.12 -2.06	30.82 -0.15 -1.90	28.54 -0.17 -0.95	30.00 -0.14 -1.16	33.03 -0.13 -1.83	41.69 -0.39 -2.68	45.60 -0.54 -1.55	42.84 -0.69 -0.67	39.44 -0.68 -0.06	37.60 -0.57 -0.16	37.18 -0.52 -0.28	40.17 -0.44 -0.26	42.10 -0.46 -0.54	43.35 -0.53 -0.04	45.44 -0.46 -0.15	48.44 -0.53 -0.69	69.81 -1.12 -1.06	72.61 -1.04 -4.03	75.60 -0.92 -5.73	60.61 -0.81 -3.91	50.31 -0.67 -3.02	44.34 -0.69 -1.67	41.41 -0.53 -1.52
E_CANADA_CAP_HY 24051	34.65 2.12 0.12	32.72 1.94 0.06	30.96 1.89 0.00	29.54 1.78 0.00	30.92 1.94 0.00	33.45 2.19 0.07	41.75 2.64 0.30	47.19 2.94 0.34	43.89 1.63 0.59	40.05 0.76 0.77	37.88 0.23 0.35	37.15 0.11 0.39	39.89 0.00 0.47	41.60 0.13 0.55	43.51 0.26 0.59	45.39 0.69 1.04	48.87 1.35 0.76	71.11 2.65 1.41	72.72 4.32 1.22	74.33 4.95 1.41	60.63 3.85 0.72	50.55 3.21 0.63	45.56 2.65 0.46	42.31 2.26 0.36
E_CANADA_MHWK_HY 24050	33.77 0.03 -1.09	32.06 0.09 -1.12	30.31 0.09 -1.15	28.31 0.06 -0.49	29.60 0.06 -0.56	32.34 0.13 -0.89	40.64 0.24 -0.99	45.71 0.22 -0.90	43.35 0.09 -0.41	40.03 -0.08 -0.05	37.89 -0.11 0.00	37.49 -0.07 -0.13	40.16 -0.20 0.00	41.77 -0.25 0.00	43.57 -0.26 0.00	45.57 -0.18 0.00	48.04 -0.24 0.00	69.48 -0.56 -0.18	69.66 -0.42 -0.45	70.80 -0.42 -0.43	57.89 -0.29 -0.68	48.60 -0.19 -0.83	44.08 -0.17 -0.89	40.61 -0.20 -0.39
E_FISHKILL___LBMP 23776	34.09 1.21 -0.23	32.02 1.05 -0.13	29.94 0.87 0.00	28.65 0.89 0.00	29.88 0.90 0.00	32.53 1.07 -0.14	41.74 1.73 -0.60	47.36 2.10 -0.68	46.16 2.14 -1.17	43.79 2.20 -1.53	40.93 2.24 -0.69	40.62 2.43 -0.77	43.66 2.38 -0.93	45.58 2.48 -1.08	47.68 2.67 -1.17	50.38 2.56 -2.07	52.55 2.75 -1.51	75.58 2.93 -2.78	74.55 2.51 -2.42	75.86 2.27 -2.80	60.72 1.78 -1.43	50.56 1.34 -1.25	45.61 1.34 -0.90	42.19 1.05 -0.72
FALCON___SEABRD_CC1 323796	37.39 1.27 -3.47	35.42 1.02 -3.56	33.60 0.87 -3.66	30.03 0.69 -1.57	31.45 0.69 -1.77	34.79 0.66 -2.81	43.62 1.06 -3.14	48.60 1.16 -2.86	45.40 1.24 -1.31	41.62 1.40 -0.16	39.25 1.25 0.00	39.05 1.20 -0.43	41.69 1.33 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.02 -0.73 0.00	47.22 -1.06 0.00	70.78 0.35 -0.56	71.75 0.70 -1.43	73.01 0.85 -1.37	60.22 0.57 -2.14	51.03 0.43 -2.63	47.06 0.87 -2.83	43.39 1.74 -1.24
FALCON___SEABRD_CC2 323797	37.39 1.27 -3.47	35.42 1.02 -3.56	33.60 0.87 -3.66	30.03 0.69 -1.57	31.45 0.69 -1.77	34.79 0.66 -2.81	43.62 1.06 -3.14	48.60 1.16 -2.86	45.40 1.24 -1.31	41.62 1.40 -0.16	39.25 1.25 0.00	39.05 1.20 -0.43	41.69 1.33 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.02 -0.73 0.00	47.22 -1.06 0.00	70.78 0.35 -0.56	71.75 0.70 -1.43	73.01 0.85 -1.37	60.22 0.57 -2.14	51.03 0.43 -2.63	47.06 0.87 -2.83	43.39 1.74 -1.24



FAR ROCKAWAY___4 23548	35.26 2.38 -0.23	32.88 1.91 -0.13	30.61 1.54 0.00	29.18 1.42 0.00	30.52 1.54 0.00	33.31 1.85 -0.13	42.64 2.64 -0.59	47.88 2.63 -0.66	46.74 2.74 -1.15	44.81 3.24 -1.51	42.44 3.76 -0.68	42.37 4.19 -0.75	45.31 4.04 -0.91	47.03 3.95 -1.06	49.06 4.08 -1.15	50.94 3.61 -1.58	53.87 4.10 -1.49	76.36 4.68 -1.81	76.18 4.18 -2.38	76.21 3.96 -1.46	60.73 3.05 -0.19	50.99 2.25 -0.76	46.25 2.04 -0.84	43.31 2.18 -0.71
FARRAGUT_138_KV_32071_REV_LBMP_J 345003	34.54 1.67 -0.23	32.39 1.42 -0.13	30.23 1.16 0.00	28.96 1.19 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.40 2.40 -0.59	48.16 2.90 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.74 3.47 -0.91	46.71 3.61 -1.07	48.81 3.81 -1.16	51.45 3.66 -2.04	53.69 3.91 -1.50	77.08 4.47 -2.75	75.91 3.90 -2.39	77.16 3.61 -2.76	61.73 2.82 -1.41	51.31 2.11 -1.24	46.30 2.04 -0.89	42.82 1.70 -0.71
FARRAGUT_138_KV_38B01_REV_LBMP_J 345016	34.57 1.70 -0.23	32.39 1.42 -0.13	30.26 1.19 0.00	28.96 1.19 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.40 2.40 -0.59	48.16 2.90 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.74 3.47 -0.91	46.71 3.61 -1.07	48.81 3.81 -1.16	51.45 3.66 -2.04	53.69 3.91 -1.50	77.15 4.54 -2.75	75.91 3.90 -2.39	77.16 3.61 -2.76	61.79 2.88 -1.41	51.31 2.11 -1.24	46.30 2.04 -0.89	42.82 1.70 -0.71
FARRAGUT_138_KV_38M12_REV_LBMP_J 345017	34.54 1.67 -0.23	32.39 1.42 -0.13	30.23 1.16 0.00	28.93 1.17 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.36 2.36 -0.59	48.11 2.85 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.76 3.77 -1.16	51.40 3.61 -2.04	53.64 3.86 -1.50	77.08 4.47 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.67 2.76 -1.41	51.27 2.06 -1.24	46.25 1.99 -0.89	42.82 1.70 -0.71
FARRAGUT___LBMP 323566	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.93 1.17 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.07 2.81 -0.67	46.91 2.91 -1.15	44.57 3.00 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.73 -1.16	51.36 3.57 -2.04	53.59 3.81 -1.50	77.01 4.40 -2.75	75.77 3.76 -2.39	77.02 3.47 -2.76	61.67 2.76 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.78 1.66 -0.71
FENNER___WINDPWR 24204	36.95 0.98 -3.32	35.13 0.99 -3.30	33.29 0.96 -3.26	30.07 0.83 -1.47	31.60 0.90 -1.72	35.17 1.13 -2.71	44.30 1.50 -3.39	48.78 1.60 -2.59	45.26 1.24 -1.16	40.95 0.76 -0.13	38.78 0.68 -0.09	38.47 0.64 -0.41	41.19 0.69 -0.15	43.00 0.67 -0.30	44.56 0.70 -0.02	46.89 1.05 -0.08	49.82 1.16 -0.38	73.00 1.75 -1.38	75.04 2.29 -3.12	77.37 2.54 -4.03	62.99 2.01 -3.48	52.82 1.58 -3.27	47.30 1.30 -2.64	43.14 1.13 -1.60
FIBERTEK___ENERGY 23856	35.34 0.20 -2.49	33.27 0.19 -2.24	31.20 0.17 -1.95	28.95 0.14 -1.05	30.49 0.17 -1.33	33.66 0.25 -2.09	42.81 0.08 -3.32	46.22 0.00 -1.63	43.32 -0.21 -0.69	39.83 -0.28 -0.05	38.07 -0.19 -0.26	37.63 -0.11 -0.32	40.73 -0.04 -0.41	42.83 -0.04 -0.85	43.81 -0.09 -0.06	46.03 0.05 -0.24	49.36 0.00 -1.08	72.42 -0.21 -2.77	75.42 -0.14 -5.93	79.48 0.07 -8.62	62.99 -0.06 -5.55	51.92 -0.05 -4.00	45.02 -0.17 -1.83	42.41 -0.04 -2.04
FITZPATRICK___ 23598	24.63 -0.65 7.36	24.42 -0.59 5.84	24.38 -0.52 4.17	24.31 -0.56 2.90	24.34 -0.58 4.06	24.41 -0.60 6.32	26.16 -0.90 12.34	39.67 -1.11 3.81	40.30 -1.11 1.43	38.98 -1.08 0.00	35.60 -1.02 1.38	35.50 -0.97 0.95	37.20 -0.97 2.19	36.49 -1.01 4.53	42.43 -1.05 0.35	43.39 -1.10 1.26	41.38 -1.16 5.74	54.10 -1.96 13.81	38.56 -1.88 29.19	25.39 -1.77 43.63	30.08 -1.50 25.92	29.88 -1.25 16.84	37.27 -1.17 4.93	30.65 -1.01 8.75
FORGEBRK_115_KV_TR1_2_REV_LBMP_G 345010	34.55 1.73 -0.17	32.54 1.60 -0.10	30.43 1.37 0.00	29.15 1.39 0.00	30.34 1.36 0.00	33.02 1.60 -0.10	42.26 2.40 -0.45	47.91 2.81 -0.51	46.43 2.70 -0.88	43.94 2.72 -1.15	41.18 2.66 -0.52	40.81 2.81 -0.58	43.88 2.82 -0.70	45.86 3.03 -0.81	48.00 3.29 -0.88	50.69 3.39 -1.56	52.99 3.57 -1.14	76.08 4.12 -2.10	75.21 3.76 -1.82	76.37 3.47 -2.11	61.51 2.93 -1.08	51.21 2.30 -0.94	46.17 2.12 -0.68	42.70 1.74 -0.54
FORT ORANGE___ 23900	32.71 0.23 0.17	30.90 0.15 0.09	29.21 0.15 0.00	28.04 0.28 0.00	29.21 0.23 0.00	31.51 0.28 0.10	39.32 0.35 0.44	44.31 0.22 0.50	42.03 0.04 0.86	38.93 0.00 1.13	37.31 -0.19 0.51	36.75 -0.11 0.57	39.11 -0.57 0.68	40.68 -0.55 0.80	42.53 -0.44 0.87	43.91 -0.32 1.53	46.97 -0.19 1.12	62.23 -0.84 6.80	62.44 -0.83 6.36	61.91 -0.99 7.89	55.64 -0.81 1.06	46.42 -0.62 0.93	42.09 -0.61 0.67	39.48 -0.40 0.53
FORT_DRUM_COGEN 23780	46.97 1.18 -13.15	45.40 1.26 -13.30	43.62 1.13 -13.42	34.60 0.94 -5.89	36.76 1.01 -6.76	43.40 1.38 -10.69	53.97 1.93 -12.63	57.24 2.10 -10.56	49.06 1.41 -4.80	41.21 0.60 -0.55	38.63 0.46 -0.17	39.42 0.37 -1.62	40.99 0.36 -0.27	42.68 0.08 -0.57	43.92 0.04 -0.04	46.37 0.46 -0.16	49.63 0.63 -0.72	75.26 1.68 -3.72	81.25 2.92 -8.70	84.56 3.47 -10.30	71.07 2.76 -10.81	61.60 2.25 -11.38	55.72 1.78 -10.58	47.39 1.50 -5.48
FOX_HILLS___ESR 323835	34.87 1.99 -0.23	32.70 1.73 -0.13	30.53 1.45 -0.01	28.85 1.08 0.00	19.95 1.25 10.28	23.63 1.47 9.17	25.72 2.40 16.09	26.16 2.99 21.42	26.26 3.17 19.76	26.19 3.24 17.11	26.87 3.42 14.55	26.90 3.71 14.23	27.19 3.67 16.83	33.12 3.82 12.72	35.45 4.08 12.46	37.48 3.89 12.16	41.41 4.15 11.03	43.49 4.82 31.20	44.78 4.25 29.09	41.97 3.82 32.65	37.43 3.05 23.12	36.18 2.25 14.04	30.40 2.26 15.22	26.95 1.94 15.41
FPL_FAR_ROCK_GT1 24212	35.26 2.38 -0.23	32.88 1.91 -0.13	30.55 1.48 0.00	29.12 1.36 0.00	30.49 1.51 0.00	33.31 1.85 -0.13	42.64 2.64 -0.59	47.84 2.59 -0.66	46.65 2.66 -1.15	44.93 3.37 -1.51	42.44 3.76 -0.68	42.22 4.04 -0.75	45.02 3.75 -0.91	46.74 3.65 -1.06	48.76 3.77 -1.15	50.99 3.66 -1.58	53.68 3.91 -1.49	76.36 4.68 -1.81	76.18 4.18 -2.38	76.14 3.89 -1.46	60.67 2.99 -0.19	50.94 2.21 -0.76	46.16 1.95 -0.84	43.15 2.02 -0.71
FPL_FAR_ROCK_GT2 23815	35.26 2.38 -0.23	32.88 1.91 -0.13	30.55 1.48 0.00	29.12 1.36 0.00	30.49 1.51 0.00	33.31 1.85 -0.13	42.64 2.64 -0.59	47.84 2.59 -0.66	46.65 2.66 -1.15	44.93 3.37 -1.51	42.44 3.76 -0.68	42.22 4.04 -0.75	45.02 3.75 -0.91	46.74 3.65 -1.06	48.76 3.77 -1.15	50.99 3.66 -1.58	53.68 3.91 -1.49	76.36 4.68 -1.81	76.18 4.18 -2.38	76.14 3.89 -1.46	60.67 2.99 -0.19	50.94 2.21 -0.76	46.16 1.95 -0.84	43.15 2.02 -0.71
FRANKLIN_FALL_HYD 24054	50.02 0.82 -16.55	48.50 0.65 -17.01	47.08 0.55 -17.46	35.72 0.47 -7.49	37.91 0.46 -8.47	45.20 0.47 -13.40	55.31 0.91 -15.00	59.22 0.98 -13.65	50.09 0.99 -6.25	41.84 1.04 -0.74	38.88 0.87 0.00	40.28 0.82 -2.03	41.33 0.97 0.00	42.74 0.71 0.00	44.40 0.57 0.00	45.75 0.00 0.00	48.33 0.05 0.00	74.44 1.89 -2.69	78.67 2.23 -6.82	79.72 2.41 -6.52	69.74 2.01 -10.22	62.09 1.58 -12.54	58.28 1.43 -13.48	47.96 1.62 -5.93



FREERPT__EQUSTGT1 23764	34.83 1.96 -0.23	32.48 1.51 -0.13	30.20 1.13 0.00	28.79 1.03 0.00	30.14 1.16 0.00	32.93 1.47 -0.13	42.16 2.17 -0.59	47.17 1.92 -0.66	46.05 2.06 -1.15	44.33 2.76 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.30 3.03 -0.91	45.98 2.90 -1.06	47.92 2.94 -1.15	48.12 2.79 0.42	52.71 2.95 -1.48	70.95 3.35 2.26	74.79 2.79 -2.38	69.08 2.54 4.26	54.20 1.89 5.19	47.98 1.30 1.28	45.24 1.21 -0.66	42.54 1.41 -0.71
FREEPORT__CT2 23818	34.83 1.96 -0.23	32.48 1.51 -0.13	30.20 1.13 0.00	28.79 1.03 0.00	30.14 1.16 0.00	32.93 1.47 -0.13	42.16 2.17 -0.59	47.17 1.92 -0.66	46.05 2.06 -1.15	44.33 2.76 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.30 3.03 -0.91	45.98 2.90 -1.06	47.92 2.94 -1.15	48.12 2.79 0.42	52.71 2.95 -1.48	70.95 3.35 2.26	74.79 2.79 -2.38	69.08 2.54 4.26	54.20 1.89 5.19	47.98 1.30 1.28	45.24 1.21 -0.66	42.54 1.41 -0.71
FRESHKLS_33_KV_LOAD 356253	35.04 2.15 -0.23	32.86 1.88 -0.13	30.70 1.63 -0.01	28.93 1.17 0.00	20.07 1.36 10.28	23.75 1.60 9.17	25.88 2.56 16.09	26.33 3.17 21.42	26.48 3.39 19.76	26.35 3.41 17.11	27.02 3.57 14.55	27.05 3.85 14.23	27.36 3.83 16.83	33.29 3.99 12.72	35.63 4.25 12.46	37.71 4.12 12.16	41.65 4.39 11.03	43.84 5.17 31.20	45.13 4.60 29.09	42.32 4.18 32.65	37.66 3.28 23.12	36.42 2.49 14.04	30.57 2.43 15.22	27.11 2.10 15.41
FULTON COGEN____ 23766	36.00 -0.16 -3.51	33.83 -0.15 -3.14	31.65 -0.15 -2.73	29.07 -0.17 -1.47	30.69 -0.17 -1.88	34.14 -0.13 -2.94	43.82 -0.32 -4.72	46.42 -0.45 -2.28	43.21 -0.60 -0.96	39.49 -0.64 -0.07	37.84 -0.53 -0.37	37.38 -0.49 -0.44	40.43 -0.52 -0.59	42.71 -0.55 -1.23	43.36 -0.57 -0.09	45.59 -0.50 -0.34	49.31 -0.53 -1.56	73.68 -1.05 -4.86	77.27 -0.91 -8.55	82.46 -0.78 -12.44	64.73 -0.75 -7.97	53.06 -0.62 -5.72	45.29 -0.65 -2.57	42.81 -0.53 -2.92
FULTON__LFGE 323630	34.51 1.99 0.13	32.56 1.79 0.07	30.81 1.74 0.00	29.40 1.64 0.00	30.75 1.77 0.00	33.28 2.03 0.08	41.51 2.44 0.34	46.92 2.72 0.39	43.55 1.37 0.67	39.67 0.48 0.87	37.46 -0.15 0.39	36.65 -0.34 0.44	39.22 -0.60 0.53	40.99 -0.42 0.62	42.90 -0.26 0.67	44.80 0.23 1.18	48.48 1.06 0.86	70.72 2.44 1.59	72.35 4.11 1.38	73.86 4.67 1.60	60.25 3.57 0.82	50.27 3.02 0.72	45.32 2.47 0.52	42.06 2.06 0.41
G.F.CEMENT__DRP 24184	33.75 1.34 0.23	31.79 1.08 0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.53 1.35 0.14	40.26 1.46 0.61	45.77 1.87 0.69	42.61 0.94 1.18	39.07 0.56 1.55	37.31 0.00 0.70	36.50 -0.15 0.78	38.93 -0.48 0.94	40.76 -0.17 1.09	42.65 0.00 1.19	44.16 0.50 2.09	47.91 1.16 1.53	74.28 1.82 -2.60	75.04 2.65 -2.77	77.51 2.90 -3.82	58.12 2.07 1.45	48.43 1.73 1.27	43.84 1.39 0.91	40.53 0.85 0.73
GARDENVILLE__LBMP 24039	34.24 1.01 -0.58	32.38 1.08 -0.46	30.24 0.84 -0.33	28.63 0.64 -0.23	30.06 0.75 -0.32	32.86 1.03 -0.50	39.83 -0.55 -0.97	43.28 -1.61 -0.30	40.73 -2.23 -0.11	38.22 -1.84 0.00	37.27 -0.84 -0.11	36.75 -0.75 -0.07	40.73 0.20 -0.17	42.51 0.13 -0.36	43.64 -0.22 -0.03	45.30 -0.55 -0.10	47.58 -1.16 -0.45	66.11 -3.77 -0.02	68.24 -3.69 -2.30	70.97 -3.26 -3.43	56.44 -3.11 -2.04	47.37 -1.92 -1.33	42.02 -1.73 -0.39	41.18 0.08 -0.69
GARDNVLA_35_KV_LD 355827	34.34 1.11 -0.58	32.50 1.20 -0.46	30.33 0.93 -0.33	28.71 0.72 -0.23	30.11 0.81 -0.32	32.95 1.13 -0.50	39.98 -0.39 -0.97	43.46 -1.43 -0.30	40.91 -2.06 -0.11	38.42 -1.64 0.00	37.46 -0.65 -0.11	36.94 -0.56 -0.17	40.93 0.40 -0.17	42.71 0.34 -0.36	43.86 0.00 -0.03	45.53 -0.32 -0.10	47.82 -0.92 -0.45	66.46 -3.42 -0.02	68.58 -3.34 -2.29	71.32 -2.90 -3.43	56.72 -2.82 -2.04	47.56 -1.73 -1.32	42.24 -1.52 -0.39	41.35 0.24 -0.69
GELCKHM__115KV_LOAD 80723	34.98 0.00 -2.33	32.98 0.00 -2.14	30.99 0.00 -1.92	28.73 -0.03 -0.99	30.22 0.00 -1.24	33.30 0.03 -1.94	42.21 -0.16 -2.95	45.86 -0.31 -1.58	43.10 -0.43 -0.68	39.64 -0.48 -0.06	37.83 -0.38 -0.20	37.38 -0.34 -0.29	40.44 -0.24 -0.33	42.44 -0.25 -0.67	43.58 -0.31 -0.05	45.76 -0.18 -0.19	48.89 -0.24 -0.85	70.97 -0.70 -1.80	73.92 -0.56 -4.85	77.34 -0.42 -6.97	61.66 -0.46 -4.62	51.02 -0.38 -3.44	44.67 -0.43 -1.74	41.88 -0.28 -1.74
GENERAL__MILLS 23808	34.30 1.08 -0.58	32.44 1.14 -0.46	30.30 0.90 -0.33	28.69 0.69 -0.23	30.08 0.78 -0.32	32.92 1.10 -0.50	39.95 -0.43 -0.97	43.37 -1.52 -0.30	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.39 -0.72 -0.11	36.86 -0.64 -0.07	40.81 0.28 -0.17	42.63 0.25 -0.36	43.77 -0.09 -0.03	45.44 -0.41 -0.10	47.72 -1.01 -0.45	66.25 -3.63 -0.02	68.44 -3.48 -2.29	71.11 -3.11 -3.43	56.61 -2.93 -2.04	47.47 -1.82 -1.32	42.15 -1.60 -0.39	41.26 0.16 -0.69
GE_PLASTICS__DRP 24183	32.89 0.36 0.12	31.09 0.31 0.07	29.42 0.35 0.00	28.15 0.39 0.00	29.33 0.35 0.00	31.63 0.38 0.07	39.65 0.55 0.31	44.99 0.76 0.35	42.89 0.64 0.60	39.87 0.60 0.79	38.07 0.42 0.35	37.52 0.49 0.39	39.76 -0.12 0.48	41.42 -0.04 0.56	43.27 0.04 0.60	44.82 0.14 1.06	47.60 0.10 0.78	64.77 -0.56 4.53	64.77 -0.63 4.23	64.77 -0.78 5.25	56.30 -0.46 0.74	46.89 -0.43 0.65	42.51 -0.39 0.47	39.52 -0.53 0.37
GILBOA__1 23756	33.20 0.55 0.00	31.52 0.68 0.00	29.85 0.79 0.00	28.54 0.78 0.00	29.79 0.81 0.00	31.86 0.53 0.00	40.12 0.71 0.00	45.43 0.85 0.00	43.58 0.73 0.00	40.74 0.68 0.00	38.65 0.65 0.00	38.17 0.75 0.00	41.00 0.64 0.00	42.74 0.71 0.00	44.62 0.79 0.00	46.58 0.82 0.00	49.01 0.73 0.00	70.00 0.14 0.00	69.42 -0.21 0.00	70.44 -0.35 0.00	57.56 0.06 0.00	48.16 0.19 0.00	43.71 0.35 0.00	40.70 0.28 0.00
GILBOA__2 23757	33.20 0.55 0.00	31.52 0.68 0.00	29.85 0.79 0.00	28.54 0.78 0.00	29.79 0.81 0.00	31.86 0.53 0.00	40.12 0.71 0.00	45.43 0.85 0.00	43.58 0.73 0.00	40.74 0.68 0.00	38.65 0.65 0.00	38.17 0.75 0.00	41.00 0.64 0.00	42.74 0.71 0.00	44.62 0.79 0.00	46.58 0.82 0.00	49.01 0.73 0.00	70.00 0.14 0.00	69.42 -0.21 0.00	70.44 -0.35 0.00	57.56 0.06 0.00	48.16 0.19 0.00	43.71 0.35 0.00	40.70 0.28 0.00
GILBOA__3 23758	33.20 0.55 0.00	31.52 0.68 0.00	29.85 0.79 0.00	28.54 0.78 0.00	29.79 0.81 0.00	31.86 0.53 0.00	40.12 0.71 0.00	45.43 0.85 0.00	43.58 0.73 0.00	40.74 0.68 0.00	38.65 0.65 0.00	38.17 0.75 0.00	41.00 0.64 0.00	42.74 0.71 0.00	44.62 0.79 0.00	46.58 0.82 0.00	49.01 0.73 0.00	70.00 0.14 0.00	69.42 -0.21 0.00	70.44 -0.35 0.00	57.56 0.06 0.00	48.16 0.19 0.00	43.71 0.35 0.00	40.70 0.28 0.00
GILBOA__4 23759	33.20 0.55 0.00	31.52 0.68 0.00	29.85 0.79 0.00	28.54 0.78 0.00	29.79 0.81 0.00	31.86 0.53 0.00	40.12 0.71 0.00	45.43 0.85 0.00	43.58 0.73 0.00	40.74 0.68 0.00	38.65 0.65 0.00	38.17 0.75 0.00	41.00 0.64 0.00	42.74 0.71 0.00	44.62 0.79 0.00	46.58 0.82 0.00	49.01 0.73 0.00	70.00 0.14 0.00	69.42 -0.21 0.00	70.44 -0.35 0.00	57.56 0.06 0.00	48.16 0.19 0.00	43.71 0.35 0.00	40.70 0.28 0.00



GILBOA____ 23599	33.20 0.56 0.00	31.52 0.68 0.00	29.85 0.78 0.00	28.54 0.78 0.00	29.79 0.81 0.00	31.86 0.53 0.00	40.12 0.71 0.00	45.43 0.85 0.00	43.58 0.73 0.00	40.78 0.72 0.00	38.69 0.68 0.00	38.17 0.75 0.00	41.04 0.69 0.00	42.74 0.71 0.00	44.62 0.79 0.00	46.57 0.82 0.00	49.01 0.72 0.00	70.00 0.14 0.00	69.42 -0.21 0.00	70.44 -0.35 0.00	57.56 0.06 0.00	48.16 0.19 0.00	43.71 0.35 0.00	40.70 0.28 0.00
GINNA____ 23603	32.11 -1.08 -0.54	30.41 -0.86 -0.43	28.56 -0.81 -0.30	27.03 -0.94 -0.21	28.32 -0.96 -0.30	30.85 -0.94 -0.46	38.42 -1.89 -0.90	42.46 -2.41 -0.28	40.60 -2.36 -0.10	37.74 -2.32 0.00	36.05 -2.05 -0.10	35.51 -1.98 -0.07	38.94 -1.57 -0.16	40.84 -1.51 -0.33	42.15 -1.71 -0.03	44.01 -1.83 -0.09	46.77 -1.93 -0.42	66.11 -3.42 0.33	68.62 -3.13 -2.13	70.93 -3.04 -3.18	56.69 -2.70 -1.89	46.94 -2.25 -1.23	41.65 -2.08 -0.36	39.48 -1.58 -0.64
GLEN PARK____ 23778	46.53 1.34 -12.54	44.92 1.42 -12.66	43.13 1.31 -12.76	34.46 1.08 -5.61	36.60 1.16 -6.45	43.06 1.53 -10.20	53.68 2.17 -12.11	56.99 2.36 -10.04	49.03 1.63 -4.56	41.30 0.72 -0.52	38.72 0.53 -0.18	39.42 0.45 -1.55	41.09 0.44 -0.29	42.83 0.21 -0.60	44.06 0.18 -0.05	46.56 0.64 -0.17	49.86 0.82 -0.76	75.66 2.09 -3.70	81.65 3.41 -8.61	85.13 4.03 -10.30	71.28 3.22 -10.56	61.54 2.59 -10.98	55.48 2.04 -10.07	47.45 1.74 -5.30
GLENDALE_27_KV_LOAD 356172	34.77 1.89 -0.23	32.57 1.60 -0.13	30.41 1.34 0.00	29.01 1.25 0.00	30.29 1.30 0.00	32.99 1.53 -0.13	42.48 2.48 -0.59	48.29 3.03 -0.67	47.17 3.17 -1.15	44.81 3.24 -1.51	42.10 3.42 -0.68	41.89 3.71 -0.75	44.94 3.67 -0.91	46.92 3.82 -1.07	49.07 4.08 -1.16	51.68 3.89 -2.04	53.93 4.15 -1.50	77.43 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.76	61.90 2.99 -1.41	51.41 2.21 -1.24	46.47 2.21 -0.89	43.03 1.90 -0.71
GLENWOOD_IC_1_G5 23712	34.70 1.83 -0.23	32.45 1.48 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.24 2.25 -0.59	47.62 2.36 -0.67	46.53 2.53 -1.15	44.45 2.88 -1.51	41.87 3.19 -0.68	41.70 3.52 -0.75	44.70 3.43 -0.91	46.49 3.40 -1.06	48.36 3.38 -1.15	49.19 2.88 -0.56	52.95 3.19 -1.48	73.01 3.42 0.28	74.86 2.85 -2.38	71.87 2.55 1.47	56.94 2.01 2.57	49.07 1.39 0.29	45.77 1.65 -0.75	42.74 1.62 -0.71
GLENWOOD_IC_2_G1 23688	34.54 1.66 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.79 1.03 0.00	30.11 1.13 0.00	32.84 1.38 -0.13	42.12 2.13 -0.59	47.57 2.32 -0.67	46.40 2.40 -1.15	44.33 2.76 -1.51	41.65 2.97 -0.68	41.36 3.18 -0.75	44.30 3.03 -0.91	46.15 3.07 -1.06	48.18 3.20 -1.15	50.89 3.11 -2.02	53.00 3.24 -1.49	76.21 3.63 -2.72	75.07 3.06 -2.39	76.35 2.83 -2.72	61.06 2.18 -1.38	50.77 1.58 -1.22	45.77 1.52 -0.89	42.54 1.41 -0.71
GLENWOOD_IC_3_G1 23689	34.54 1.66 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.79 1.03 0.00	30.11 1.13 0.00	32.84 1.38 -0.13	42.12 2.13 -0.59	47.57 2.32 -0.67	46.40 2.40 -1.15	44.33 2.76 -1.51	41.65 2.97 -0.68	41.36 3.18 -0.75	44.30 3.03 -0.91	46.15 3.07 -1.06	48.18 3.20 -1.15	50.89 3.11 -2.02	53.00 3.24 -1.49	76.21 3.63 -2.72	75.07 3.06 -2.39	76.35 2.83 -2.72	61.06 2.18 -1.38	50.77 1.58 -1.22	45.77 1.52 -0.89	42.54 1.41 -0.71
GLENWOOD____4 23550	34.70 1.83 -0.23	32.45 1.48 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.24 2.25 -0.59	47.62 2.36 -0.67	46.53 2.53 -1.15	44.45 2.88 -1.51	41.87 3.19 -0.68	41.70 3.52 -0.75	44.70 3.43 -0.91	46.49 3.40 -1.06	48.40 3.42 -1.15	49.28 2.97 -0.56	53.05 3.28 -1.48	73.15 3.56 0.28	75.07 3.06 -2.38	72.08 2.76 1.47	57.06 2.13 2.57	49.22 1.53 0.29	45.77 1.65 -0.75	42.74 1.62 -0.71
GLENWOOD____5 23614	34.70 1.83 -0.23	32.45 1.48 -0.13	30.26 1.19 0.00	28.90 1.14 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.24 2.25 -0.59	47.62 2.36 -0.67	46.53 2.53 -1.15	44.45 2.88 -1.51	41.87 3.19 -0.68	41.70 3.52 -0.75	44.70 3.43 -0.91	46.49 3.40 -1.06	48.40 3.42 -1.15	49.28 2.97 -0.56	53.05 3.28 -1.48	73.15 3.56 0.28	75.07 3.06 -2.38	72.08 2.76 1.47	57.06 2.13 2.57	49.22 1.53 0.29	45.77 1.65 -0.75	42.74 1.62 -0.71
GLOBAL GREEN_PORT_GT1 23814	35.19 2.32 -0.23	32.76 1.79 -0.13	30.46 1.40 0.00	29.04 1.28 0.00	30.43 1.45 0.00	33.21 1.75 -0.13	42.56 2.56 -0.59	47.43 2.18 -0.66	46.43 2.44 -1.14	44.85 3.29 -1.51	42.67 3.99 -0.68	42.48 4.30 -0.75	45.27 4.00 -0.91	46.87 3.78 -1.06	48.84 3.86 -1.15	47.11 3.75 2.40	53.82 4.06 -1.48	68.46 4.89 6.30	76.39 4.39 -2.37	64.92 4.03 9.91	49.86 2.87 10.51	46.67 2.01 3.31	45.10 1.26 -0.48	42.70 1.57 -0.71
GLOBE____DSASP 323697	33.86 0.65 -0.56	32.15 0.86 -0.44	29.97 0.58 -0.32	28.40 0.42 -0.22	29.73 0.43 -0.31	32.46 0.66 -0.48	38.69 -1.66 -0.94	41.71 -3.17 -0.29	39.32 -3.64 -0.11	36.98 -3.08 0.00	36.09 -2.01 -0.11	35.63 -1.87 -0.07	39.51 -1.01 -0.17	41.23 -1.13 -0.34	42.37 -1.49 -0.03	43.83 -2.01 -0.10	46.02 -2.70 -0.44	63.77 -6.01 0.08	65.93 -5.92 -2.22	68.38 -5.73 -3.32	54.59 -4.89 -1.97	45.89 -3.36 -1.28	40.71 -3.04 -0.38	40.64 -0.44 -0.67
GOETHSLN____LBMP 323567	34.34 1.47 -0.23	32.17 1.20 -0.13	30.06 0.99 0.00	28.76 1.00 0.00	19.71 1.01 10.29	23.40 1.25 9.18	25.44 2.13 16.10	25.75 2.59 21.43	25.79 2.70 19.76	25.74 2.80 17.12	26.41 2.96 14.56	26.40 3.22 14.24	26.70 3.19 16.84	32.57 3.28 12.73	34.83 3.46 12.46	36.92 3.34 12.17	40.77 3.52 11.04	42.64 3.98 31.20	43.94 3.41 29.10	41.18 3.04 32.65	36.79 2.42 23.13	35.70 1.77 14.05	29.83 1.69 15.23	26.41 1.41 15.42
GOLAH____69_KV_TB 1_2 80279	34.02 0.82 -0.55	32.27 0.99 -0.44	30.11 0.73 -0.31	28.57 0.58 -0.22	29.98 0.70 -0.31	32.74 0.94 -0.48	40.34 0.00 -0.93	44.29 -0.58 -0.29	42.06 -0.90 -0.11	39.10 -0.96 0.00	37.65 -0.46 -0.10	37.09 -0.41 -0.07	40.80 0.28 -0.16	42.70 0.34 -0.34	43.99 0.13 -0.03	45.89 0.05 -0.10	48.62 -0.10 -0.43	68.58 -1.05 0.24	70.99 -0.84 -2.19	73.65 -0.42 -3.28	58.70 -0.75 -1.95	48.85 -0.38 -1.27	43.39 -0.35 -0.37	41.60 0.53 -0.66
GOODYEAR_LAKE_HYD 323669	34.18 1.24 -0.29	32.34 1.26 -0.23	30.46 1.22 -0.17	28.99 1.11 -0.12	30.36 1.22 -0.16	32.89 1.32 -0.25	41.56 1.66 -0.49	46.57 1.83 -0.15	44.28 1.37 -0.06	41.06 1.00 0.00	39.01 0.95 -0.06	38.44 0.97 -0.04	41.49 1.05 -0.09	43.30 1.09 -0.18	44.99 1.14 -0.01	47.22 1.42 -0.05	50.06 1.55 -0.23	72.30 1.89 -0.55	73.02 2.23 -1.17	74.94 2.41 -1.74	60.55 2.01 -1.04	50.32 1.68 -0.67	45.04 1.47 -0.20	42.14 1.37 -0.35
GOUDEY_115_KV_TB6_REV_LBMP_C 345031	34.04 0.69 -0.71	32.02 0.62 -0.56	30.08 0.61 -0.40	28.54 0.50 -0.28	29.98 0.61 -0.39	32.65 0.72 -0.61	41.03 0.43 -1.18	45.22 0.27 -0.36	42.94 -0.04 -0.14	40.02 -0.04 0.00	38.36 0.23 -0.13	37.78 0.26 -0.09	41.05 0.48 -0.21	42.96 0.50 -0.43	44.26 0.39 -0.03	46.38 0.50 -0.12	49.17 0.34 -0.55	70.56 -0.35 -1.04	72.15 -0.28 -2.80	74.98 0.00 -4.18	59.87 -0.12 -2.49	49.68 0.10 -1.61	43.93 0.09 -0.47	41.66 0.40 -0.84



GOUDEY___7 23579	34.04 0.69 -0.71	32.02 0.62 -0.56	30.08 0.61 -0.40	28.54 0.50 -0.28	29.98 0.61 -0.39	32.65 0.72 -0.61	41.03 0.43 -1.18	45.22 0.27 -0.36	42.94 -0.04 -0.14	40.02 -0.04 0.00	38.36 0.23 -0.13	37.78 0.26 -0.09	41.05 0.48 -0.21	42.96 0.50 -0.43	44.26 0.39 -0.03	46.38 0.50 -0.12	49.17 0.34 -0.55	70.56 -0.35 -1.04	72.15 -0.28 -2.80	74.98 0.00 -4.18	59.87 -0.12 -2.49	49.68 0.10 -1.61	43.93 0.09 -0.47	41.66 0.40 -0.84
GOUDEY___8 23580	34.04 0.69 -0.71	32.02 0.62 -0.56	30.08 0.61 -0.40	28.54 0.50 -0.28	29.98 0.61 -0.39	32.65 0.72 -0.61	41.03 0.43 -1.18	45.22 0.27 -0.36	42.94 -0.04 -0.14	40.02 -0.04 0.00	38.36 0.23 -0.13	37.78 0.26 -0.09	41.05 0.48 -0.21	42.96 0.50 -0.43	44.26 0.39 -0.03	46.38 0.50 -0.12	49.17 0.34 -0.55	70.56 -0.35 -1.04	72.15 -0.28 -2.80	74.98 0.00 -4.18	59.87 -0.12 -2.49	49.68 0.10 -1.61	43.93 0.09 -0.47	41.66 0.40 -0.84
GOWANUS_GT1_1 24077	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT1_2 24078	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT1_3 24079	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT1_4 24080	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT1_5 24084	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT1_6 24111	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT1_7 24112	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT1_8 24113	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT2_1 24114	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT2_2 24115	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT2_3 24116	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT2_4 24117	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT2_5 24118	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71



GOWANUS_GT2_6 24119	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT2_7 24120	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT2_8 24121	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_1 24122	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_2 24123	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_3 24124	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_4 24125	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_5 24126	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_6 24127	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_7 24128	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT3_8 24129	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
GOWANUS_GT4_1 24130	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT4_2 24131	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT4_3 24132	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT4_4 24133	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71



GOWANUS_GT4_5 24134	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT4_6 24135	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT4_7 24136	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GOWANUS_GT4_8 24137	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GREATVR_69_KV_BK1 356245	35.19 2.32 -0.23	32.76 1.79 -0.13	30.49 1.42 0.00	29.01 1.25 0.00	30.37 1.39 0.00	33.18 1.72 -0.13	42.60 2.60 -0.59	47.52 2.27 -0.66	46.53 2.53 -1.15	44.65 3.08 -1.51	42.40 3.72 -0.68	42.34 4.15 -0.75	45.31 4.04 -0.91	46.91 3.82 -1.06	48.75 3.77 -1.15	46.51 3.02 2.26	53.24 3.48 -1.48	67.48 3.63 6.01	75.13 3.13 -2.37	64.11 2.83 9.51	49.60 2.24 10.14	46.43 1.63 3.17	45.33 1.47 -0.49	43.07 1.94 -0.71
GREENBSH_115KV_TB3 55895	32.61 0.13 0.17	30.81 0.06 0.09	29.18 0.12 0.00	27.99 0.22 0.00	29.13 0.14 0.00	31.41 0.19 0.10	39.20 0.24 0.44	44.53 0.45 0.50	42.33 0.34 0.86	39.25 0.32 1.13	37.61 0.11 0.51	37.01 0.15 0.57	39.43 -0.24 0.68	41.06 -0.17 0.80	42.92 -0.04 0.87	44.27 0.05 1.53	47.26 0.10 1.12	62.57 -0.49 6.80	62.72 -0.56 6.36	62.19 -0.71 7.89	55.92 -0.52 1.06	46.56 -0.48 0.93	42.27 -0.43 0.67	39.32 -0.57 0.53
GREENDGE_115KV_TB5 80291	34.97 1.44 -0.89	32.84 1.30 -0.71	30.79 1.22 -0.50	29.17 1.06 -0.35	30.69 1.22 -0.49	33.62 1.53 -0.77	42.28 1.38 -1.49	46.16 1.11 -0.46	43.54 0.51 -0.17	40.34 0.28 0.00	38.74 0.57 -0.17	38.14 0.60 -0.12	41.59 0.97 -0.26	43.58 1.01 -0.55	44.71 0.83 -0.04	46.96 1.05 -0.15	50.09 1.11 -0.70	72.24 1.12 -1.25	74.76 1.60 -3.53	78.20 2.12 -5.28	61.96 1.32 -3.14	51.16 1.15 -2.04	44.79 0.82 -0.60	42.77 1.29 -1.06
GREENIDGE___3 23582	34.97 1.44 -0.89	32.84 1.30 -0.71	30.79 1.22 -0.50	29.17 1.06 -0.35	30.69 1.22 -0.49	33.62 1.53 -0.77	42.28 1.38 -1.49	46.16 1.11 -0.46	43.54 0.51 -0.17	40.34 0.28 0.00	38.74 0.57 -0.17	38.14 0.60 -0.12	41.59 0.97 -0.26	43.58 1.01 -0.55	44.71 0.83 -0.04	46.96 1.05 -0.15	50.09 1.11 -0.70	72.24 1.12 -1.25	74.76 1.60 -3.53	78.20 2.12 -5.28	61.96 1.32 -3.14	51.16 1.15 -2.04	44.79 0.82 -0.60	42.77 1.29 -1.06
GREENIDGE___4 23583	34.97 1.43 -0.89	32.84 1.30 -0.71	30.94 1.37 -0.50	29.25 1.14 -0.35	30.72 1.25 -0.49	33.62 1.53 -0.77	42.28 1.38 -1.49	46.25 1.20 -0.46	43.83 0.81 -0.17	40.66 0.60 0.00	38.85 0.68 -0.17	38.22 0.67 -0.12	41.71 1.09 -0.26	43.75 1.17 -0.55	44.88 1.01 -0.04	47.00 1.10 -0.15	50.13 1.16 -0.70	72.23 1.11 -1.25	74.83 1.67 -3.53	78.19 2.12 -5.28	62.02 1.38 -3.14	51.20 1.20 -2.04	44.92 0.95 -0.60	42.81 1.33 -1.06
GREENLWN_69_KV_BK 3 55738	34.38 1.50 -0.23	32.05 1.08 -0.13	29.85 0.78 0.00	28.46 0.69 0.00	29.74 0.75 0.00	32.49 1.03 -0.13	41.69 1.69 -0.59	46.23 0.98 -0.66	45.37 1.37 -1.15	43.77 2.20 -1.51	41.42 2.74 -0.68	41.44 3.26 -0.75	43.89 2.62 -0.91	45.39 2.31 -1.06	47.31 2.32 -1.15	45.15 1.69 2.29	51.74 1.98 -1.48	65.45 1.68 6.09	73.18 1.18 -2.37	61.95 0.78 9.62	47.84 0.58 10.24	44.95 0.19 3.21	44.11 0.26 -0.49	42.10 0.97 -0.71
GREENWD_138_KV_38B11_REV_LBMP_J 345004	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71
GRISSOM___SOLAR 323813	34.34 1.83 0.13	32.40 1.63 0.07	30.67 1.60 0.00	29.29 1.53 0.00	30.60 1.62 0.00	33.09 1.85 0.08	41.31 2.25 0.35	46.73 2.54 0.40	43.41 1.24 0.68	39.53 0.36 0.89	37.34 -0.26 0.40	36.49 -0.49 0.45	39.05 -0.77 0.54	40.80 -0.59 0.63	42.71 -0.44 0.68	44.54 0.00 1.21	48.27 0.87 0.88	70.41 2.17 1.63	71.97 3.76 1.41	73.41 4.25 1.63	59.88 3.22 0.84	49.97 2.73 0.73	45.09 2.25 0.53	41.85 1.86 0.42
GROVEVILLE___HYD 323602	34.55 1.73 -0.17	32.54 1.60 -0.10	30.43 1.37 0.00	29.15 1.39 0.00	30.34 1.36 0.00	33.02 1.60 -0.10	42.26 2.40 -0.45	47.91 2.81 -0.51	46.43 2.70 -0.88	43.94 2.72 -1.15	41.18 2.66 -0.52	40.81 2.81 -0.58	43.88 2.82 -0.70	45.86 3.03 -0.81	48.00 3.29 -0.88	50.69 3.39 -1.56	52.99 3.57 -1.14	76.08 4.12 -2.10	75.21 3.76 -1.82	76.37 3.47 -2.11	61.51 2.93 -1.08	51.21 2.30 -0.94	46.17 2.12 -0.68	42.70 1.74 -0.54
GRS_LOCK_115KV_LINE_2_SOLVAY 80269	35.34 0.20 -2.49	33.27 0.19 -2.24	31.20 0.17 -1.95	28.95 0.14 -1.05	30.49 0.17 -1.33	33.66 0.25 -2.09	42.81 0.08 -3.32	46.22 0.00 -1.63	43.32 -0.21 -0.69	39.83 -0.28 -0.05	38.07 -0.19 -0.26	37.63 -0.11 -0.32	40.73 -0.04 -0.41	42.83 -0.04 -0.85	43.81 -0.09 -0.06	46.03 0.05 -0.24	49.36 0.00 -1.08	72.42 -0.21 -2.77	75.42 -0.14 -5.93	79.48 0.07 -8.62	62.99 -0.06 -5.55	51.92 -0.05 -4.00	45.02 -0.17 -1.83	42.41 -0.04 -2.04
HAMLTNNY_34_KV_TB 80303	35.35 0.39 -2.31	33.30 0.40 -2.06	31.20 0.35 -1.78	29.01 0.28 -0.97	30.57 0.35 -1.24	33.73 0.47 -1.94	42.82 0.28 -3.14	46.21 0.13 -1.49	43.39 -0.09 -0.63	39.94 -0.16 -0.04	38.22 -0.04 -0.25	37.72 0.00 -0.29	40.96 0.20 -0.40	43.11 0.25 -0.83	44.07 0.18 -0.06	46.30 0.32 -0.23	49.63 0.29 -1.05	72.62 0.07 -2.69	75.66 0.28 -5.75	79.67 0.50 -8.38	63.08 0.23 -5.35	51.98 0.19 -3.82	45.10 0.04 -1.69	42.57 0.20 -1.95



HAMPSHIRE___PAPER_HYD 323593	64.49 0.52 -31.32	63.46 0.52 -32.09	62.40 0.49 -32.84	42.29 0.39 -14.14	45.46 0.44 -16.04	57.30 0.59 -25.38	69.01 0.91 -28.69	71.27 0.98 -25.70	55.33 0.73 -11.75	41.80 0.36 -1.38	38.31 0.23 -0.08	41.43 0.15 -3.85	40.72 0.24 -0.12	42.23 -0.04 -0.25	43.77 -0.09 -0.02	45.82 0.00 -0.07	48.60 0.00 -0.32	76.71 1.05 -5.80	85.73 1.74 -14.36	87.39 1.98 -14.61	79.71 1.67 -20.54	73.72 1.39 -24.36	69.99 1.17 -25.45	52.98 1.01 -11.56
HARDSCRABBLE_WT_PWR 323673	33.84 0.10 -1.09	32.12 0.15 -1.12	30.37 0.15 -1.15	28.37 0.11 -0.49	29.66 0.12 -0.56	32.40 0.19 -0.89	40.71 0.31 -0.99	45.80 0.31 -0.90	43.43 0.17 -0.41	40.11 0.00 -0.05	38.00 0.00 0.00	37.56 0.00 -0.13	40.28 -0.08 0.00	41.86 -0.17 0.00	43.66 -0.17 0.00	45.66 -0.09 0.00	48.14 -0.14 0.00	69.56 -0.49 -0.18	69.73 -0.35 -0.45	70.87 -0.35 -0.43	57.95 -0.23 -0.68	48.65 -0.14 -0.83	44.13 -0.13 -0.89	40.65 -0.16 -0.39
HARRIMAN_69_KV_BK771_REV_LBMP_G 345025	34.31 1.47 -0.19	32.25 1.30 -0.11	30.20 1.13 0.00	28.87 1.11 0.00	30.11 1.13 0.00	32.78 1.35 -0.11	41.92 2.01 -0.50	47.56 2.41 -0.57	46.14 2.31 -0.97	43.70 2.36 -1.27	40.97 2.39 -0.57	40.61 2.54 -0.64	43.71 2.58 -0.77	45.65 2.73 -0.90	47.79 2.98 -0.98	50.49 3.02 -1.72	52.73 3.19 -1.26	75.68 3.49 -2.32	74.78 3.13 -2.02	76.03 2.90 -2.33	61.11 2.42 -1.19	50.93 1.92 -1.04	45.90 1.78 -0.75	42.43 1.41 -0.60
HARSNRAD_115KV_TB1 81005	33.90 0.69 -0.56	32.15 0.86 -0.45	29.97 0.58 -0.32	28.40 0.42 -0.22	29.79 0.49 -0.31	32.53 0.72 -0.49	39.29 -1.06 -0.95	42.38 -2.50 -0.29	39.92 -3.04 -0.11	37.46 -2.60 0.00	36.55 -1.56 -0.11	36.04 -1.46 -0.07	40.00 -0.52 -0.17	41.78 -0.59 -0.35	42.90 -0.96 -0.03	44.48 -1.37 -0.10	46.69 -2.03 -0.44	64.68 -5.10 0.08	66.92 -4.94 -2.24	69.61 -4.53 -3.35	55.35 -4.14 -1.99	46.52 -2.73 -1.29	41.32 -2.43 -0.38	40.80 -0.28 -0.67
HARZA MOOSE___RIVER 24016	42.56 0.85 -9.07	40.96 0.89 -9.23	39.26 0.81 -9.38	32.54 0.69 -4.08	34.39 0.75 -4.65	39.66 0.97 -7.36	49.30 1.38 -8.51	53.46 1.52 -7.36	47.27 1.07 -3.35	41.01 0.56 -0.39	38.53 0.46 -0.07	38.95 0.41 -1.12	40.92 0.44 -0.11	42.39 0.13 -0.24	43.94 0.09 -0.02	46.18 0.37 -0.07	48.97 0.39 -0.30	72.98 0.98 -2.13	76.40 1.67 -5.10	78.48 1.98 -5.70	65.83 1.61 -6.72	56.77 1.34 -7.46	51.78 1.08 -7.33	44.87 0.89 -3.57
HDSNBRDG_115KV_BRDG_TB1 355580	34.95 0.03 -2.27	32.98 0.03 -2.10	31.01 0.03 -1.91	28.73 0.00 -0.97	30.21 0.03 -1.20	33.25 0.03 -1.89	42.04 -0.20 -2.83	45.80 -0.36 -1.57	43.01 -0.51 -0.68	39.60 -0.52 -0.06	37.77 -0.42 -0.19	37.37 -0.34 -0.29	40.37 -0.28 -0.30	42.38 -0.25 -0.61	43.57 -0.31 -0.05	45.69 -0.23 -0.17	48.77 -0.29 -0.78	70.66 -0.77 -1.57	73.41 -0.70 -4.47	76.70 -0.50 -6.40	61.28 -0.52 -4.30	50.78 -0.43 -3.25	44.60 -0.48 -1.71	41.73 -0.32 -1.64
HELLGATE_13_KV_LD 55870	34.80 1.93 -0.23	32.60 1.63 -0.13	30.43 1.37 0.00	29.04 1.28 0.00	30.32 1.33 0.00	32.99 1.53 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.17 3.17 -1.15	44.81 3.24 -1.51	42.14 3.46 -0.68	41.89 3.71 -0.75	44.98 3.71 -0.91	46.96 3.87 -1.07	49.12 4.12 -1.16	51.68 3.89 -2.04	53.98 4.20 -1.50	77.43 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.76	61.90 2.99 -1.41	51.41 2.21 -1.24	46.47 2.21 -0.89	43.07 1.94 -0.71
HELLGT_W_13_KV_BRUCKNER_REV_LBMP_J 345018	34.80 1.93 -0.23	32.60 1.63 -0.13	30.43 1.37 0.00	29.04 1.28 0.00	30.32 1.33 0.00	32.99 1.53 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.17 3.17 -1.15	44.81 3.24 -1.51	42.14 3.46 -0.68	41.89 3.71 -0.75	44.98 3.71 -0.91	46.96 3.87 -1.07	49.12 4.12 -1.16	51.68 3.89 -2.04	53.98 4.20 -1.50	77.43 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.76	61.90 2.99 -1.41	51.41 2.21 -1.24	46.47 2.21 -0.89	43.07 1.94 -0.71
HEMPSTEAD____ 23647	34.57 1.70 -0.23	32.29 1.33 -0.13	30.03 0.96 0.00	28.65 0.89 0.00	30.00 1.01 0.00	32.74 1.28 -0.13	41.97 1.97 -0.59	47.04 1.79 -0.67	45.93 1.93 -1.15	44.17 2.60 -1.51	41.65 2.97 -0.68	41.40 3.22 -0.75	44.14 2.87 -0.91	45.81 2.73 -1.06	47.75 2.76 -1.15	48.17 2.61 0.18	52.52 2.75 -1.48	71.02 2.93 1.78	74.44 2.44 -2.38	69.33 2.12 3.58	54.55 1.61 4.56	47.98 1.05 1.04	45.09 1.04 -0.68	42.34 1.21 -0.71
HICKLING___1 23621	34.50 1.11 -0.75	32.42 0.99 -0.59	30.42 0.93 -0.42	28.81 0.75 -0.29	30.32 0.93 -0.41	33.16 1.19 -0.64	41.25 0.59 -1.25	45.11 0.13 -0.39	42.61 -0.39 -0.15	39.70 -0.36 0.00	38.26 0.11 -0.14	37.71 0.19 -0.10	41.18 0.61 -0.22	43.07 0.59 -0.46	44.26 0.39 -0.04	46.34 0.46 -0.13	49.06 0.19 -0.58	69.97 -0.84 -0.94	72.03 -0.56 -2.96	75.14 -0.07 -4.42	59.84 -0.29 -2.63	49.77 0.10 -1.71	43.87 0.00 -0.50	42.03 0.73 -0.89
HICKLING___2 23622	34.50 1.11 -0.75	32.42 0.99 -0.59	30.42 0.93 -0.42	28.81 0.75 -0.29	30.32 0.93 -0.41	33.16 1.19 -0.64	41.25 0.59 -1.25	45.11 0.13 -0.39	42.61 -0.39 -0.15	39.70 -0.36 0.00	38.26 0.11 -0.14	37.71 0.19 -0.10	41.18 0.61 -0.22	43.07 0.59 -0.46	44.26 0.39 -0.04	46.34 0.46 -0.13	49.06 0.19 -0.58	69.97 -0.84 -0.94	72.03 -0.56 -2.96	75.14 -0.07 -4.42	59.84 -0.29 -2.63	49.77 0.10 -1.71	43.87 0.00 -0.50	42.03 0.73 -0.89
HIGH FALLS___HY 23754	34.62 1.86 -0.11	32.67 1.76 -0.06	30.58 1.51 0.00	29.29 1.53 0.00	30.46 1.48 0.00	33.12 1.72 -0.07	42.35 2.64 -0.30	47.96 3.03 -0.34	46.30 2.87 -0.58	43.59 2.76 -0.76	41.01 2.66 -0.34	40.58 2.77 -0.38	43.73 2.91 -0.46	45.63 3.07 -0.54	47.79 3.38 -0.59	50.35 3.57 -1.03	53.00 3.96 -0.76	76.01 4.75 -1.39	75.36 4.53 -1.21	76.44 4.25 -1.40	61.78 3.57 -0.72	51.47 2.88 -0.63	46.42 2.60 -0.45	42.96 2.18 -0.36
HIGH_RIVER___SOLAR 323847	33.65 1.14 0.14	31.78 1.02 0.08	30.06 0.99 0.00	28.74 0.97 0.00	30.00 1.01 0.00	32.37 1.13 0.08	40.46 1.42 0.37	45.77 1.60 0.42	42.94 0.81 0.72	39.43 0.32 0.95	37.46 -0.11 0.43	36.77 -0.19 0.47	39.42 -0.36 0.57	41.06 -0.29 0.67	42.89 -0.22 0.73	44.56 0.09 1.28	48.02 0.68 0.94	69.46 1.32 1.72	70.22 2.09 1.50	71.39 2.33 1.73	58.40 1.78 0.89	48.68 1.49 0.78	44.07 1.26 0.56	40.98 1.01 0.45
HILLBURN___GT 23639	34.22 1.37 -0.20	32.12 1.17 -0.11	30.00 0.93 0.00	28.74 0.97 0.00	30.02 1.04 0.00	32.70 1.25 -0.12	41.81 1.89 -0.51	47.44 2.27 -0.58	46.12 2.27 -1.00	43.78 2.40 -1.31	41.06 2.47 -0.59	40.70 2.62 -0.66	43.77 2.62 -0.80	45.72 2.77 -0.93	47.82 2.98 -1.01	50.50 2.97 -1.77	52.68 3.09 -1.30	75.54 3.28 -2.39	74.49 2.79 -2.08	75.82 2.62 -2.40	60.80 2.07 -1.23	50.72 1.68 -1.08	45.70 1.56 -0.78	42.29 1.25 -0.62
HILLSIDE_115KV_TB1 80332	34.04 0.65 -0.74	32.02 0.59 -0.59	30.01 0.52 -0.42	28.45 0.39 -0.29	29.94 0.55 -0.41	32.68 0.72 -0.64	40.73 0.08 -1.25	44.61 -0.36 -0.38	42.22 -0.77 -0.15	39.38 -0.68 0.00	37.95 -0.19 -0.14	37.37 -0.15 -0.10	40.82 0.24 -0.22	42.69 0.21 -0.46	43.87 0.00 -0.04	45.88 0.00 -0.13	48.57 -0.29 -0.58	69.30 -1.54 -0.97	71.19 -1.39 -2.95	74.21 -0.99 -4.41	59.09 -1.04 -2.62	49.19 -0.48 -1.70	43.39 -0.48 -0.50	41.50 0.20 -0.88



HISHELDN_WT_PWR 323625	34.24 0.98 -0.61	32.34 1.02 -0.48	30.55 1.13 -0.35	28.81 0.81 -0.24	30.07 0.75 -0.34	32.85 1.00 -0.53	40.08 -0.36 -1.02	43.65 -1.25 -0.32	41.56 -1.41 -0.12	38.90 -1.16 0.00	37.51 -0.61 -0.11	36.90 -0.60 -0.08	40.78 0.24 -0.18	42.65 0.25 -0.38	43.82 -0.04 -0.03	45.26 -0.60 -0.10	47.60 -1.16 -0.48	66.49 -3.56 -0.19	68.99 -3.06 -2.42	71.65 -2.76 -3.62	57.12 -2.53 -2.15	47.78 -1.58 -1.40	42.52 -1.26 -0.41	41.26 0.12 -0.73
HOLTSVILLE_IC_1 23690	34.67 1.79 -0.23	32.29 1.33 -0.13	30.00 0.93 0.00	28.57 0.81 0.00	29.94 0.96 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	46.68 1.43 -0.66	45.66 1.67 -1.14	44.09 2.53 -1.51	41.72 3.04 -0.68	41.51 3.33 -0.75	44.05 2.78 -0.91	45.52 2.44 -1.06	47.35 2.37 -1.15	45.50 2.15 2.40	52.03 2.27 -1.48	65.72 2.17 6.31	73.67 1.67 -2.37	62.20 1.34 9.93	48.00 1.04 10.54	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
HOLTSVILLE_IC_10 23699	34.83 1.96 -0.23	32.42 1.45 -0.13	30.11 1.04 0.00	28.68 0.91 0.00	30.06 1.07 0.00	32.84 1.38 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.88 1.88 -1.14	44.29 2.73 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.75	44.30 3.03 -0.91	45.77 2.69 -1.06	47.61 2.63 -1.15	45.85 2.47 2.37	52.37 2.61 -1.48	66.21 2.59 6.24	74.09 2.09 -2.37	62.80 1.84 9.83	48.50 1.44 10.44	45.69 1.01 3.29	44.63 0.78 -0.48	42.42 1.29 -0.71
HOLTSVILLE_IC_2 23691	34.67 1.79 -0.23	32.29 1.33 -0.13	30.00 0.93 0.00	28.57 0.81 0.00	29.94 0.96 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	46.68 1.43 -0.66	45.66 1.67 -1.14	44.09 2.53 -1.51	41.72 3.04 -0.68	41.51 3.33 -0.75	44.05 2.78 -0.91	45.52 2.44 -1.06	47.35 2.37 -1.15	45.50 2.15 2.40	52.03 2.27 -1.48	65.72 2.17 6.31	73.67 1.67 -2.37	62.20 1.34 9.93	48.00 1.04 10.54	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
HOLTSVILLE_IC_3 23692	34.67 1.79 -0.23	32.29 1.33 -0.13	30.00 0.93 0.00	28.57 0.81 0.00	29.94 0.96 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	46.68 1.43 -0.66	45.66 1.67 -1.14	44.09 2.53 -1.51	41.72 3.04 -0.68	41.51 3.33 -0.75	44.05 2.78 -0.91	45.52 2.44 -1.06	47.35 2.37 -1.15	45.50 2.15 2.40	52.03 2.27 -1.48	65.72 2.17 6.31	73.67 1.67 -2.37	62.20 1.34 9.93	48.00 1.04 10.54	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
HOLTSVILLE_IC_4 23693	34.67 1.79 -0.23	32.29 1.33 -0.13	30.00 0.93 0.00	28.57 0.81 0.00	29.94 0.96 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	46.68 1.43 -0.66	45.66 1.67 -1.14	44.09 2.53 -1.51	41.72 3.04 -0.68	41.51 3.33 -0.75	44.05 2.78 -0.91	45.52 2.44 -1.06	47.35 2.37 -1.15	45.50 2.15 2.40	52.03 2.27 -1.48	65.72 2.17 6.31	73.67 1.67 -2.37	62.20 1.34 9.93	48.00 1.04 10.54	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
HOLTSVILLE_IC_5 23694	34.67 1.79 -0.23	32.29 1.33 -0.13	30.00 0.93 0.00	28.57 0.81 0.00	29.94 0.96 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	46.68 1.43 -0.66	45.66 1.67 -1.14	44.09 2.53 -1.51	41.72 3.04 -0.68	41.51 3.33 -0.75	44.05 2.78 -0.91	45.52 2.44 -1.06	47.35 2.37 -1.15	45.50 2.15 2.40	52.03 2.27 -1.48	65.72 2.17 6.31	73.67 1.67 -2.37	62.20 1.34 9.93	48.00 1.04 10.54	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
HOLTSVILLE_IC_6 23695	34.83 1.96 -0.23	32.42 1.45 -0.13	30.11 1.04 0.00	28.68 0.91 0.00	30.06 1.07 0.00	32.84 1.38 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.88 1.88 -1.14	44.29 2.73 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.75	44.30 3.03 -0.91	45.77 2.69 -1.06	47.61 2.63 -1.15	45.85 2.47 2.37	52.37 2.61 -1.48	66.21 2.59 6.24	74.09 2.09 -2.37	62.80 1.84 9.83	48.50 1.44 10.44	45.69 1.01 3.29	44.63 0.78 -0.48	42.42 1.29 -0.71
HOLTSVILLE_IC_7 23696	34.83 1.96 -0.23	32.42 1.45 -0.13	30.11 1.04 0.00	28.68 0.91 0.00	30.06 1.07 0.00	32.84 1.38 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.88 1.88 -1.14	44.29 2.73 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.75	44.30 3.03 -0.91	45.77 2.69 -1.06	47.61 2.63 -1.15	45.85 2.47 2.37	52.37 2.61 -1.48	66.21 2.59 6.24	74.09 2.09 -2.37	62.80 1.84 9.83	48.50 1.44 10.44	45.69 1.01 3.29	44.63 0.78 -0.48	42.42 1.29 -0.71
HOLTSVILLE_IC_8 23697	34.83 1.96 -0.23	32.42 1.45 -0.13	30.11 1.04 0.00	28.68 0.91 0.00	30.06 1.07 0.00	32.84 1.38 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.88 1.88 -1.14	44.29 2.73 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.75	44.30 3.03 -0.91	45.77 2.69 -1.06	47.61 2.63 -1.15	45.85 2.47 2.37	52.37 2.61 -1.48	66.21 2.59 6.24	74.09 2.09 -2.37	62.80 1.84 9.83	48.50 1.44 10.44	45.69 1.01 3.29	44.63 0.78 -0.48	42.42 1.29 -0.71
HOLTSVILLE_IC_9 23698	34.83 1.96 -0.23	32.42 1.45 -0.13	30.11 1.04 0.00	28.68 0.91 0.00	30.06 1.07 0.00	32.84 1.38 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.88 1.88 -1.14	44.29 2.73 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.75	44.30 3.03 -0.91	45.77 2.69 -1.06	47.61 2.63 -1.15	45.85 2.47 2.37	52.37 2.61 -1.48	66.21 2.59 6.24	74.09 2.09 -2.37	62.80 1.84 9.83	48.50 1.44 10.44	45.69 1.01 3.29	44.63 0.78 -0.48	42.42 1.29 -0.71
HOMER_HL_115KV_TB2 355744	34.12 0.88 -0.59	32.08 0.77 -0.47	30.04 0.64 -0.34	28.41 0.42 -0.23	29.98 0.67 -0.33	32.84 1.00 -0.51	40.05 -0.35 -0.99	43.65 -1.25 -0.31	40.91 -2.06 -0.12	38.46 -1.60 0.00	37.47 -0.65 -0.11	36.94 -0.56 -0.08	40.74 0.20 -0.18	42.51 0.13 -0.37	43.60 -0.26 -0.03	45.49 -0.37 -0.10	47.20 -1.55 -0.46	65.44 -4.54 -0.12	67.39 -4.60 -2.35	70.20 -4.11 -3.52	55.91 -3.68 -2.09	47.02 -2.30 -1.36	42.16 -1.60 -0.40	41.00 -0.12 -0.71
HOWARD_WT_PWR 323690	34.93 1.53 -0.74	32.82 1.39 -0.59	31.00 1.51 -0.42	29.22 1.17 -0.29	30.61 1.22 -0.41	33.53 1.57 -0.64	41.40 0.75 -1.25	45.11 0.13 -0.38	42.74 -0.26 -0.14	39.78 -0.28 0.00	38.18 0.04 -0.14	37.56 0.04 -0.10	41.31 0.73 -0.22	43.19 0.71 -0.46	44.26 0.39 -0.04	45.97 0.09 -0.13	48.57 -0.29 -0.58	69.12 -1.54 -0.79	71.81 -0.76 -2.95	75.06 -0.14 -4.41	59.72 -0.40 -2.62	49.67 0.00 -1.70	43.82 -0.04 -0.50	42.19 0.89 -0.88
HQ_GEN_CEDARS 23644	96.17 0.00 -63.52	96.10 -0.03 -65.29	96.06 -0.03 -67.02	56.47 -0.03 -28.73	61.42 -0.06 -32.50	82.70 -0.06 -51.43	96.97 0.00 -57.56	96.97 0.00 -52.38	67.01 0.17 -23.99	43.10 0.20 -2.84	38.19 0.19 0.00	45.26 0.04 -7.80	40.52 0.16 0.00	42.15 0.13 0.00	43.92 0.09 0.00	45.70 -0.05 0.00	48.23 -0.05 0.00	81.24 1.05 -10.33	96.97 1.18 -26.16	97.02 1.20 -25.03	97.77 1.04 -39.23	96.97 0.86 -48.14	95.94 0.82 -51.75	63.97 0.81 -22.75
HQ_GEN_CEDARS_PROXY 323590	96.17 0.00 -63.52	96.10 -0.03 -65.29	96.06 -0.03 -67.02	56.44 -0.06 -28.73	61.42 -0.06 -32.50	82.70 -0.06 -51.43	96.97 0.00 -57.56	96.97 0.00 -52.38	67.01 0.17 -23.99	43.11 0.20 -2.84	38.19 0.19 0.00	45.23 0.00 -7.80	40.52 0.16 0.00	42.15 0.13 0.00	43.92 0.09 0.00	45.71 -0.05 0.00	48.23 -0.05 0.00	81.25 1.05 -10.33	96.97 1.18 -26.16	97.02 1.20 -25.03	97.77 1.04 -39.23	96.97 0.86 -48.14	96.97 0.82 -52.78	62.94 0.81 -21.71



HQ_GEN_IMPORT 323601	30.00 -0.26 2.39	28.14 -0.25 2.45	26.32 -0.23 2.52	26.46 -0.22 1.08	27.50 -0.26 1.22	29.11 -0.28 1.93	36.93 -0.32 2.16	42.26 -0.36 1.97	41.78 -0.17 0.90	39.83 -0.12 0.11	37.85 -0.15 0.00	36.91 -0.22 0.29	40.20 -0.16 0.00	41.81 -0.21 0.00	43.62 -0.22 0.00	45.43 -0.32 0.00	47.95 -0.34 0.00	69.76 0.28 0.39	69.00 0.35 0.98	70.21 0.36 0.94	56.32 0.29 1.47	46.40 0.24 1.81	42.68 0.22 0.91	38.77 0.24 1.89
HQ_GEN_WHEEL 23651	30.00 -0.26 2.39	28.14 -0.25 2.45	26.32 -0.23 2.52	26.46 -0.22 1.08	27.50 -0.26 1.22	29.11 -0.28 1.93	36.93 -0.32 2.16	42.26 -0.36 1.97	41.78 -0.17 0.90	39.83 -0.12 0.11	37.85 -0.15 0.00	36.91 -0.22 0.29	40.20 -0.16 0.00	41.81 -0.21 0.00	43.62 -0.22 0.00	45.43 -0.32 0.00	47.95 -0.34 0.00	69.76 0.28 0.39	69.00 0.35 0.98	70.21 0.36 0.94	56.32 0.29 1.47	46.40 0.24 1.81	42.68 0.22 0.91	38.77 0.24 1.89
HUDSON AVE_GT_3 23810	34.54 1.67 -0.23	32.39 1.42 -0.13	30.26 1.19 0.00	28.96 1.19 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.40 2.40 -0.59	48.16 2.90 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.74 3.47 -0.91	46.71 3.61 -1.07	48.81 3.81 -1.16	51.49 3.71 -2.04	53.69 3.91 -1.50	77.15 4.54 -2.75	75.98 3.97 -2.39	77.16 3.61 -2.76	61.79 2.88 -1.41	51.31 2.11 -1.24	46.30 2.04 -0.89	42.82 1.70 -0.71
HUDSON AVE_GT_4 23540	34.54 1.67 -0.23	32.39 1.42 -0.13	30.26 1.19 0.00	28.96 1.19 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.40 2.40 -0.59	48.16 2.90 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.74 3.47 -0.91	46.71 3.61 -1.07	48.81 3.81 -1.16	51.49 3.71 -2.04	53.69 3.91 -1.50	77.15 4.54 -2.75	75.98 3.97 -2.39	77.16 3.61 -2.76	61.79 2.88 -1.41	51.31 2.11 -1.24	46.30 2.04 -0.89	42.82 1.70 -0.71
HUDSON AVE_GT_5 23657	34.54 1.67 -0.23	32.39 1.42 -0.13	30.26 1.19 0.00	28.96 1.19 0.00	30.20 1.22 0.00	32.93 1.47 -0.13	42.40 2.40 -0.59	48.16 2.90 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.74 3.47 -0.91	46.71 3.61 -1.07	48.81 3.81 -1.16	51.49 3.71 -2.04	53.69 3.91 -1.50	77.15 4.54 -2.75	75.98 3.97 -2.39	77.16 3.61 -2.76	61.79 2.88 -1.41	51.31 2.11 -1.24	46.30 2.04 -0.89	42.82 1.70 -0.71
HUDSON_AVE_10 24168	34.44 1.57 -0.23	32.30 1.33 -0.13	30.14 1.08 0.00	28.85 1.08 0.00	30.08 1.10 0.00	32.84 1.38 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.63 3.64 -1.16	51.36 3.57 -2.04	53.55 3.77 -1.50	77.01 4.40 -2.75	75.84 3.83 -2.39	77.02 3.47 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.17 1.91 -0.89	42.74 1.62 -0.71
HUDSON___115KV_TB 4 355613	32.93 0.46 0.17	31.09 0.34 0.09	29.47 0.41 0.00	28.24 0.47 0.00	29.42 0.43 0.00	31.73 0.50 0.10	39.60 0.63 0.44	44.66 0.58 0.50	42.29 0.30 0.86	39.13 0.20 1.13	37.42 -0.08 0.51	36.82 -0.04 0.57	39.19 -0.48 0.68	40.85 -0.38 0.80	42.70 -0.26 0.87	44.13 -0.09 1.53	47.26 0.10 1.12	62.64 -0.42 6.80	63.06 -0.21 6.36	62.55 -0.35 7.89	56.15 -0.29 1.06	46.85 -0.19 0.93	42.44 -0.26 0.67	39.68 -0.20 0.53
HUNTER MOUNT___DRP 323613	34.38 1.73 0.00	32.51 1.67 0.00	30.43 1.37 0.00	29.21 1.44 0.00	30.29 1.30 0.00	33.11 1.79 0.00	41.81 2.40 0.00	47.40 2.81 0.00	44.95 2.10 0.00	41.66 1.60 0.00	39.07 1.06 0.00	38.36 0.94 0.00	40.80 0.44 0.00	42.69 0.67 0.00	44.84 1.01 0.00	47.26 1.51 0.00	49.97 1.69 0.00	70.09 2.24 2.01	70.40 2.72 1.94	70.87 2.55 2.47	59.86 2.36 0.00	49.89 1.92 0.00	44.88 1.52 0.00	41.51 1.09 0.00
HUNTINGTON_RES_REC 323705	34.57 1.70 -0.23	32.20 1.24 -0.13	29.91 0.84 0.00	28.48 0.72 0.00	29.85 0.87 0.00	32.62 1.16 -0.13	41.89 1.89 -0.59	46.41 1.16 -0.66	45.49 1.50 -1.14	44.05 2.48 -1.51	41.65 2.97 -0.68	41.40 3.22 -0.75	43.81 2.54 -0.91	45.31 2.23 -1.06	47.17 2.19 -1.15	45.36 1.97 2.36	51.88 2.12 -1.48	65.68 2.03 6.22	73.46 1.46 -2.37	62.20 1.20 9.79	48.01 0.92 10.40	45.17 0.48 3.27	44.24 0.39 -0.48	42.10 0.97 -0.71
HUNTLEY___63 23557	34.33 1.11 -0.57	32.53 1.23 -0.45	30.35 0.96 -0.32	28.74 0.75 -0.22	30.11 0.81 -0.31	32.94 1.13 -0.49	39.65 -0.71 -0.95	42.92 -1.96 -0.29	40.43 -2.53 -0.11	37.98 -2.08 0.00	37.04 -1.06 -0.11	36.53 -0.97 -0.07	40.57 0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	45.07 -0.78 -0.10	47.18 -1.55 -0.44	65.41 -4.40 0.05	67.56 -4.32 -2.25	70.19 -3.96 -3.36	55.88 -3.62 -2.00	46.87 -2.40 -1.30	41.75 -1.99 -0.38	41.25 0.16 -0.67
HUNTLEY___64 23558	34.33 1.11 -0.57	32.53 1.23 -0.45	30.35 0.96 -0.32	28.74 0.75 -0.22	30.11 0.81 -0.31	32.94 1.13 -0.49	39.65 -0.71 -0.95	42.92 -1.96 -0.29	40.43 -2.53 -0.11	37.98 -2.08 0.00	37.04 -1.06 -0.11	36.53 -0.97 -0.07	40.57 0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	45.07 -0.78 -0.10	47.18 -1.55 -0.44	65.41 -4.40 0.05	67.56 -4.32 -2.25	70.19 -3.96 -3.36	55.88 -3.62 -2.00	46.87 -2.40 -1.30	41.75 -1.99 -0.38	41.25 0.16 -0.67
HUNTLEY___65 23559	34.33 1.11 -0.57	32.53 1.23 -0.45	30.35 0.96 -0.32	28.74 0.75 -0.22	30.11 0.81 -0.31	32.94 1.13 -0.49	39.65 -0.71 -0.95	42.92 -1.96 -0.29	40.43 -2.53 -0.11	37.98 -2.08 0.00	37.04 -1.06 -0.11	36.53 -0.97 -0.07	40.57 0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	45.07 -0.78 -0.10	47.18 -1.55 -0.44	65.41 -4.40 0.05	67.56 -4.32 -2.25	70.19 -3.96 -3.36	55.88 -3.62 -2.00	46.87 -2.40 -1.30	41.75 -1.99 -0.38	41.25 0.16 -0.67
HUNTLEY___66 23560	34.33 1.11 -0.57	32.53 1.23 -0.45	30.35 0.96 -0.32	28.74 0.75 -0.22	30.11 0.81 -0.31	32.94 1.13 -0.49	39.65 -0.71 -0.95	42.92 -1.96 -0.29	40.43 -2.53 -0.11	37.98 -2.08 0.00	37.04 -1.06 -0.11	36.53 -0.97 -0.07	40.57 0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	45.07 -0.78 -0.10	47.18 -1.55 -0.44	65.41 -4.40 0.05	67.56 -4.32 -2.25	70.19 -3.96 -3.36	55.88 -3.62 -2.00	46.87 -2.40 -1.30	41.75 -1.99 -0.38	41.25 0.16 -0.67
HUNTLEY___67 23561	34.00 0.78 -0.57	32.19 0.89 -0.45	30.03 0.64 -0.32	28.46 0.47 -0.22	29.85 0.55 -0.31	32.60 0.78 -0.49	39.46 -0.91 -0.96	42.83 -2.05 -0.29	40.35 -2.61 -0.11	37.90 -2.16 0.00	36.97 -1.14 -0.11	36.49 -1.01 -0.07	40.41 -0.12 -0.17	42.20 -0.17 -0.35	43.33 -0.53 -0.03	44.93 -0.92 -0.10	47.18 -1.55 -0.44	65.50 -4.33 0.03	67.64 -4.25 -2.26	70.27 -3.89 -3.37	56.00 -3.51 -2.00	47.01 -2.25 -1.30	41.71 -2.04 -0.38	40.89 -0.20 -0.68
HUNTLEY___68 23562	34.00 0.78 -0.57	32.19 0.89 -0.45	30.03 0.64 -0.32	28.46 0.47 -0.22	29.85 0.55 -0.31	32.60 0.78 -0.49	39.46 -0.91 -0.96	42.83 -2.05 -0.29	40.35 -2.61 -0.11	37.90 -2.16 0.00	36.97 -1.14 -0.11	36.49 -1.01 -0.07	40.41 -0.12 -0.17	42.20 -0.17 -0.35	43.33 -0.53 -0.03	44.93 -0.92 -0.10	47.18 -1.55 -0.44	65.50 -4.33 0.03	67.64 -4.25 -2.26	70.27 -3.89 -3.37	56.00 -3.51 -2.00	47.01 -2.25 -1.30	41.71 -2.04 -0.38	40.89 -0.20 -0.68



HYLAND___LFGE 323620	35.58 2.28 -0.65	33.64 2.28 -0.51	31.64 2.21 -0.37	29.85 1.83 -0.26	31.31 1.97 -0.36	34.29 2.41 -0.56	42.39 1.89 -1.09	46.44 1.52 -0.33	43.79 0.81 -0.13	40.30 0.24 0.00	38.46 0.34 -0.12	37.70 0.19 -0.08	41.40 0.85 -0.19	43.34 0.92 -0.40	44.61 0.74 -0.03	46.69 0.82 -0.11	50.00 1.21 -0.51	71.77 1.61 -0.29	75.12 2.92 -2.57	78.38 3.75 -3.84	62.31 2.53 -2.28	51.61 2.16 -1.48	45.62 1.82 -0.43	43.57 2.38 -0.77
INDECK___CORINTH 23802	33.40 0.98 0.23	31.43 0.71 0.13	29.82 0.75 0.00	28.51 0.75 0.00	29.79 0.81 0.00	32.16 0.97 0.13	39.76 0.94 0.59	45.16 1.25 0.67	41.99 0.30 1.16	38.47 -0.08 1.51	36.75 -0.57 0.68	35.96 -0.71 0.76	38.39 -1.05 0.92	40.15 -0.80 1.07	42.06 -0.61 1.16	43.57 -0.14 2.05	47.32 0.53 1.50	73.15 0.91 -2.38	73.92 1.74 -2.55	76.38 2.05 -3.53	57.40 1.32 1.42	47.83 1.10 1.24	43.29 0.82 0.89	40.06 0.36 0.72
INDECK___ILION 23567	33.90 0.16 -1.09	32.15 0.19 -1.12	30.40 0.17 -1.15	28.40 0.14 -0.49	29.69 0.14 -0.56	32.43 0.22 -0.89	40.71 0.32 -0.99	45.85 0.36 -0.90	43.48 0.21 -0.41	40.23 0.12 -0.05	38.08 0.08 0.00	37.64 0.07 -0.13	40.40 0.04 0.00	42.02 0.00 0.00	43.83 0.00 0.00	45.84 0.09 0.00	48.38 0.10 0.00	69.97 -0.07 -0.18	70.08 0.00 -0.45	71.22 0.00 -0.43	58.23 0.06 -0.68	48.84 0.05 -0.83	44.30 0.04 -0.89	40.81 0.00 -0.39
INDECK___OLEAN 23982	34.12 0.88 -0.59	32.08 0.77 -0.47	30.31 0.90 -0.34	28.58 0.58 -0.23	30.03 0.72 -0.33	32.84 1.00 -0.51	40.09 -0.32 -0.99	43.78 -1.11 -0.31	41.59 -1.37 -0.12	39.06 -1.00 0.00	37.70 -0.42 -0.11	37.13 -0.37 -0.08	40.98 0.44 -0.18	42.85 0.46 -0.37	43.99 0.13 -0.03	45.63 -0.23 -0.10	47.30 -1.45 -0.46	65.44 -4.54 -0.12	67.52 -4.46 -2.35	70.20 -4.11 -3.52	56.08 -3.51 -2.09	47.12 -2.21 -1.36	42.38 -1.39 -0.40	41.08 -0.04 -0.71
INDECK___OSWEGO 23783	36.63 -0.39 -4.38	34.43 -0.34 -3.92	32.20 -0.29 -3.42	29.27 -0.33 -1.84	31.00 -0.32 -2.34	34.68 -0.31 -3.66	44.75 -0.51 -5.85	46.78 -0.67 -2.86	43.28 -0.77 -1.21	39.35 -0.80 -0.09	37.74 -0.72 -0.46	37.27 -0.71 -0.55	40.08 -1.01 -0.73	42.48 -1.05 -1.50	42.81 -1.14 -0.12	45.03 -1.14 -0.42	48.99 -1.21 -1.91	74.37 -1.96 -6.46	78.31 -1.81 -10.50	84.35 -1.70 -15.26	65.81 -1.50 -9.81	53.78 -1.25 -7.06	45.45 -1.13 -3.21	43.01 -1.01 -3.60
INDECK___YERKES 23781	34.36 1.14 -0.57	32.56 1.27 -0.45	30.76 1.37 -0.32	28.96 0.97 -0.22	30.20 0.90 -0.31	32.97 1.16 -0.49	39.73 1.16 -0.95	43.19 -1.69 -0.29	41.24 -1.72 -0.11	38.78 -1.28 0.00	37.46 -0.65 -0.11	36.90 -0.60 -0.07	40.97 0.44 -0.17	42.83 0.46 -0.35	44.04 0.18 -0.03	45.35 -0.50 -0.10	47.37 -1.35 -0.44	65.62 -4.19 0.05	67.91 -3.97 -2.25	70.26 -3.89 -3.36	56.11 -3.39 -2.00	47.06 -2.21 -1.30	42.19 -1.56 -0.38	41.33 0.24 -0.67
INDIAN POINT_GT_1 24139	34.31 1.44 -0.23	32.20 1.23 -0.13	30.09 1.02 0.00	28.76 1.00 0.00	30.03 1.04 0.00	32.71 1.25 -0.13	42.05 2.05 -0.59	47.71 2.45 -0.67	46.53 2.53 -1.15	44.21 2.64 -1.50	41.34 2.66 -0.68	41.10 2.92 -0.75	44.13 2.87 -0.91	46.07 2.98 -1.06	48.19 3.20 -1.15	50.89 3.11 -2.03	53.05 3.28 -1.49	76.23 3.63 -2.74	75.21 3.20 -2.38	76.45 2.90 -2.75	61.21 2.30 -1.41	50.97 1.77 -1.23	45.90 1.65 -0.89	42.50 1.37 -0.71
INDIAN POINT_GT_2 23659	34.31 1.44 -0.23	32.20 1.23 -0.13	30.09 1.02 0.00	28.76 1.00 0.00	30.03 1.04 0.00	32.71 1.25 -0.13	42.05 2.05 -0.59	47.71 2.45 -0.67	46.53 2.53 -1.15	44.21 2.64 -1.50	41.34 2.66 -0.68	41.10 2.92 -0.75	44.13 2.87 -0.91	46.07 2.98 -1.06	48.19 3.20 -1.15	50.89 3.11 -2.03	53.05 3.28 -1.49	76.23 3.63 -2.74	75.21 3.20 -2.38	76.45 2.90 -2.75	61.21 2.30 -1.41	50.97 1.77 -1.23	45.90 1.65 -0.89	42.50 1.37 -0.71
INDIAN POINT_GT_3 24019	34.31 1.44 -0.23	32.20 1.23 -0.13	30.09 1.02 0.00	28.76 1.00 0.00	30.03 1.04 0.00	32.71 1.25 -0.13	42.05 2.05 -0.59	47.71 2.45 -0.67	46.53 2.53 -1.15	44.21 2.64 -1.50	41.34 2.66 -0.68	41.10 2.92 -0.75	44.13 2.87 -0.91	46.07 2.98 -1.06	48.19 3.20 -1.15	50.89 3.11 -2.03	53.05 3.28 -1.49	76.23 3.63 -2.74	75.21 3.20 -2.38	76.45 2.90 -2.75	61.21 2.30 -1.41	50.97 1.77 -1.23	45.90 1.65 -0.89	42.50 1.37 -0.71
INDIAN POINT___2 23530	34.38 1.50 -0.23	32.26 1.30 -0.13	30.08 1.02 0.00	28.79 1.03 0.00	30.08 1.10 0.00	32.77 1.32 -0.13	42.12 2.13 -0.59	47.75 2.50 -0.67	46.57 2.57 -1.15	44.29 2.73 -1.51	41.49 2.81 -0.68	41.21 3.03 -0.75	44.26 2.99 -0.91	46.20 3.11 -1.07	48.28 3.29 -1.16	51.04 3.25 -2.04	53.21 3.43 -1.49	76.45 3.84 -2.75	75.29 3.27 -2.39	76.59 3.04 -2.76	61.27 2.36 -1.41	50.98 1.78 -1.24	45.91 1.65 -0.89	42.50 1.37 -0.71
INDIAN POINT___3 23531	34.21 1.34 -0.22	32.11 1.14 -0.12	30.03 0.96 0.00	28.74 0.97 0.00	30.00 1.01 0.00	32.64 1.19 -0.13	41.87 1.89 -0.57	47.56 2.32 -0.65	46.32 2.36 -1.12	43.96 2.44 -1.46	41.17 2.51 -0.66	40.89 2.73 -0.73	43.95 2.70 -0.88	45.87 2.82 -1.03	47.98 3.02 -1.12	50.65 2.93 -1.97	52.82 3.09 -1.45	75.88 3.35 -2.66	74.79 2.85 -2.31	76.08 2.62 -2.67	60.94 2.07 -1.37	50.79 1.63 -1.20	45.79 1.56 -0.86	42.36 1.25 -0.69
INGHAM_C_115KV_TB7 356103	33.77 0.03 -1.09	32.06 0.09 -1.12	30.31 0.09 -1.15	28.31 0.06 -0.49	29.60 0.06 -0.56	32.34 0.13 -0.89	40.64 0.24 -0.99	45.71 0.22 -0.90	43.35 0.09 -0.41	40.03 -0.08 -0.05	37.89 -0.11 0.00	37.49 -0.07 -0.13	40.16 -0.20 0.00	41.77 -0.25 0.00	43.57 -0.26 0.00	45.57 -0.18 0.00	48.04 -0.24 0.00	69.48 -0.56 -0.18	69.66 -0.42 -0.45	70.80 -0.42 -0.43	57.89 -0.29 -0.68	48.60 -0.19 -0.83	44.08 -0.17 -0.89	40.60 -0.20 -0.39
IP CORINTH___1 23988	33.56 1.14 0.23	31.61 0.89 0.13	30.00 0.93 0.00	28.68 0.92 0.00	29.97 0.99 0.00	32.32 1.13 0.13	40.00 1.18 0.59	45.43 1.52 0.67	42.34 0.64 1.16	38.79 0.24 1.51	37.02 -0.30 0.68	36.26 -0.41 0.76	38.67 -0.77 0.92	40.45 -0.50 1.07	42.37 -0.31 1.16	43.84 0.14 2.05	47.61 0.82 1.50	73.57 1.33 -2.38	74.34 2.16 -2.55	76.73 2.41 -3.53	57.75 1.67 1.42	48.12 1.39 1.24	43.56 1.08 0.89	40.31 0.61 0.72
IP___TICONDEROGA 23804	34.87 2.45 0.23	32.72 2.00 0.13	31.10 2.03 0.00	29.71 1.94 0.00	31.07 2.09 0.00	33.60 2.41 0.14	41.37 2.56 0.60	47.16 3.25 0.68	43.43 1.76 1.17	39.65 1.12 1.53	37.73 0.42 0.69	36.84 0.19 0.77	39.22 -0.20 0.93	41.19 0.25 1.08	43.18 0.53 1.18	44.91 1.24 2.08	49.08 2.32 1.52	76.09 3.70 -2.52	77.40 5.08 -2.69	80.17 5.66 -3.71	60.20 4.14 1.44	50.21 3.50 1.26	45.19 2.73 0.91	41.71 2.02 0.73
ISLIP_RES_REC 323679	34.99 2.12 -0.23	32.57 1.60 -0.13	30.23 1.16 0.00	28.79 1.03 0.00	30.14 1.16 0.00	32.96 1.50 -0.13	42.32 2.32 -0.59	47.08 1.83 -0.66	46.05 2.06 -1.14	44.45 2.89 -1.51	42.14 3.46 -0.68	41.92 3.74 -0.75	44.54 3.27 -0.91	46.07 2.98 -1.06	47.88 2.89 -1.15	46.15 2.74 2.35	52.66 2.90 -1.48	66.74 3.07 6.19	74.58 2.58 -2.37	63.29 2.26 9.77	48.91 1.78 10.38	45.95 1.25 3.26	44.85 1.00 -0.48	42.62 1.50 -0.71



JAMAICA__27_KV_LOAD 355505	34.51 1.63 -0.23	32.33 1.36 -0.13	30.17 1.10 0.00	28.87 1.11 0.00	30.11 1.13 0.00	32.93 1.47 -0.13	42.52 2.52 -0.59	48.20 2.94 -0.67	47.04 3.04 -1.15	44.65 3.08 -1.51	42.02 3.34 -0.68	41.70 3.52 -0.75	44.82 3.55 -0.91	46.79 3.70 -1.07	48.72 3.73 -1.16	51.54 3.75 -2.04	53.64 3.86 -1.50	77.50 4.89 -2.75	76.26 4.25 -2.39	77.52 3.96 -2.76	62.02 3.11 -1.41	51.46 2.25 -1.24	46.38 2.12 -0.89	42.91 1.78 -0.71
JANIS__SOLAR 323808	35.09 1.63 -0.81	33.06 1.57 -0.64	31.09 1.57 -0.46	29.44 1.36 -0.32	30.91 1.48 -0.45	33.84 1.82 -0.69	42.93 2.17 -1.36	47.19 2.18 -0.42	44.51 1.50 -0.16	40.86 0.80 0.00	38.76 0.61 -0.15	38.05 0.52 -0.10	41.28 0.69 -0.24	43.19 0.67 -0.50	44.57 0.70 -0.04	46.99 1.10 -0.14	50.36 1.45 -0.63	73.68 2.30 -1.52	76.11 3.27 -3.21	79.48 3.89 -4.79	63.34 2.99 -2.85	52.21 2.40 -1.85	45.86 1.95 -0.54	43.28 1.90 -0.96
JARVIS____ 23743	33.87 0.13 -1.09	32.12 0.15 -1.12	30.37 0.15 -1.15	28.40 0.14 -0.49	29.69 0.15 -0.56	32.37 0.16 -0.89	40.64 0.24 -0.99	45.76 0.27 -0.90	43.43 0.17 -0.41	40.23 0.12 -0.05	38.12 0.11 0.00	37.71 0.15 -0.13	40.44 0.08 0.00	42.11 0.08 0.00	43.97 0.13 0.00	45.93 0.18 0.00	48.48 0.19 0.00	70.11 0.07 -0.18	70.15 0.07 -0.45	71.29 0.07 -0.43	58.29 0.12 -0.68	48.84 0.05 -0.83	44.30 0.04 -0.89	40.81 0.00 -0.39
JENNISON____1 23625	34.92 1.67 -0.61	32.99 1.67 -0.48	30.98 1.57 -0.35	29.36 1.36 -0.24	30.83 1.51 -0.34	33.70 1.85 -0.52	42.64 2.21 -1.02	47.22 2.32 -0.32	44.60 1.63 -0.12	41.02 0.96 0.00	39.10 0.99 -0.11	38.48 0.97 -0.08	41.67 1.13 -0.18	43.53 1.13 -0.37	45.00 1.14 -0.03	47.46 1.60 -0.10	50.54 1.79 -0.48	73.45 2.45 -1.14	75.25 3.20 -2.42	78.09 3.68 -3.61	62.58 2.93 -2.15	51.76 2.40 -1.39	45.77 1.99 -0.41	43.08 1.94 -0.72
JENNISON____2 23626	34.92 1.67 -0.61	32.99 1.67 -0.48	30.98 1.57 -0.35	29.36 1.36 -0.24	30.83 1.51 -0.34	33.70 1.85 -0.52	42.64 2.21 -1.02	47.22 2.32 -0.32	44.60 1.63 -0.12	41.02 0.96 0.00	39.10 0.99 -0.11	38.48 0.97 -0.08	41.67 1.13 -0.18	43.53 1.13 -0.37	45.00 1.14 -0.03	47.46 1.60 -0.10	50.54 1.79 -0.48	73.45 2.45 -1.14	75.25 3.20 -2.42	78.09 3.68 -3.61	62.58 2.93 -2.15	51.76 2.40 -1.39	45.77 1.99 -0.41	43.08 1.94 -0.72
JERICOHO_RISE_WT_PWR 323719	39.92 0.46 -6.82	38.13 0.28 -7.01	36.47 0.20 -7.19	30.96 0.11 -3.08	32.56 0.09 -3.49	36.88 0.03 -5.52	45.82 0.24 -6.18	50.48 0.27 -5.62	45.81 0.38 -2.57	40.89 0.52 -0.31	38.46 0.46 0.00	38.64 0.37 -0.84	40.80 0.44 0.00	42.23 0.21 0.00	43.88 0.04 0.00	45.07 -0.69 0.00	47.46 -0.82 0.00	71.47 0.49 -1.11	73.13 0.70 -2.81	74.26 0.78 -2.69	62.35 0.63 -4.21	53.61 0.48 -5.17	49.53 0.61 -5.55	43.82 0.97 -2.44
KATONAH__115KV_46KV_TB4 355592	34.44 1.57 -0.22	32.36 1.39 -0.12	30.23 1.16 0.00	28.87 1.11 0.00	30.14 1.16 0.00	32.80 1.35 -0.13	42.24 2.25 -0.58	47.97 2.72 -0.66	46.77 2.79 -1.14	44.39 2.84 -1.49	41.48 2.81 -0.67	41.24 3.07 -0.75	44.33 3.07 -0.90	46.27 3.19 -1.05	48.39 3.42 -1.14	51.10 3.34 -2.01	53.23 3.48 -1.47	76.56 3.98 -2.71	75.54 3.55 -2.36	76.78 3.26 -2.73	61.49 2.59 -1.40	51.20 2.01 -1.22	46.07 1.82 -0.88	42.65 1.54 -0.70
KCE_NY_1 323755	33.69 1.27 0.23	31.80 1.08 0.13	30.11 1.04 0.00	28.82 1.05 0.00	30.08 1.10 0.00	32.45 1.25 0.13	40.32 1.50 0.59	45.79 1.87 0.67	42.90 1.20 1.15	39.44 0.88 1.50	37.82 0.49 0.68	37.09 0.41 0.75	39.65 0.20 0.91	41.38 0.42 1.06	43.25 0.57 1.15	44.68 0.96 2.03	48.24 1.45 1.49	74.13 1.95 -2.31	74.62 2.50 -2.48	76.86 2.62 -3.45	58.05 1.96 1.41	48.37 1.63 1.23	43.82 1.35 0.89	40.67 0.97 0.71
KCE_NY_6_ESR 323823	34.30 1.08 -0.58	32.47 1.17 -0.46	30.67 1.28 -0.33	28.88 0.89 -0.23	30.14 0.84 -0.32	32.95 1.13 -0.50	39.99 -0.39 -0.97	43.59 -1.29 -0.30	41.59 -1.37 -0.11	39.06 -1.00 0.00	37.73 -0.38 -0.11	37.16 -0.34 -0.07	41.17 0.64 -0.17	43.05 0.67 -0.36	44.25 0.39 -0.03	45.62 -0.23 -0.10	47.87 -0.87 -0.45	66.46 -3.42 -0.02	68.72 -3.20 -2.29	71.25 -2.97 -3.43	56.89 -2.64 -2.04	47.66 -1.63 -1.32	42.50 -1.26 -0.39	41.35 0.24 -0.69
KEDC PORT_JEFF_GT2 24210	34.80 1.93 -0.23	32.39 1.42 -0.13	30.08 1.02 0.00	28.65 0.89 0.00	30.02 1.04 0.00	32.80 1.35 -0.13	42.12 2.13 -0.59	46.81 1.56 -0.66	45.79 1.80 -1.14	44.21 2.64 -1.51	41.87 3.19 -0.68	41.66 3.48 -0.75	44.22 2.94 -0.91	45.69 2.61 -1.06	47.53 2.54 -1.15	45.75 2.38 -1.48	52.27 2.51 -1.48	65.69 2.09 6.27	73.60 1.60 -2.37	62.20 1.28 9.87	48.35 1.32 10.47	45.58 0.91 3.30	44.58 0.74 -0.48	42.38 1.25 -0.71
KEDC PORT_JEFF_GT3 24211	34.80 1.93 -0.23	32.39 1.42 -0.13	30.08 1.02 0.00	28.65 0.89 0.00	30.02 1.04 0.00	32.80 1.35 -0.13	42.12 2.13 -0.59	46.81 1.56 -0.66	45.79 1.80 -1.14	44.21 2.64 -1.51	41.87 3.19 -0.68	41.66 3.48 -0.75	44.22 2.94 -0.91	45.69 2.61 -1.06	47.53 2.54 -1.15	45.75 2.38 -1.48	52.27 2.51 6.27	65.69 2.09 6.27	73.60 1.60 -2.37	62.20 1.28 9.87	48.35 1.32 10.47	45.58 0.91 3.30	44.58 0.74 -0.48	42.38 1.25 -0.71
KEDC_GLWD_GT4 24219	34.70 1.83 -0.23	32.45 1.48 -0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.17 1.19 0.00	32.93 1.47 -0.13	42.24 2.25 -0.59	47.57 2.32 -0.67	46.44 2.44 -1.15	44.45 2.89 -1.51	41.87 3.19 -0.68	41.59 3.41 -0.75	44.46 3.19 -0.91	46.27 3.19 -1.06	48.18 3.20 -1.15	49.37 3.07 -0.56	52.81 3.04 -1.48	72.94 3.35 0.28	74.86 2.86 -2.38	71.86 2.54 1.47	56.82 1.89 2.57	49.02 1.34 0.29	45.68 1.56 -0.75	42.62 1.50 -0.71
KEDC_GLWD_GT5 24220	34.70 1.83 -0.23	32.45 1.48 -0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.17 1.19 0.00	32.93 1.47 -0.13	42.24 2.25 -0.59	47.57 2.32 -0.67	46.44 2.44 -1.15	44.45 2.89 -1.51	41.87 3.19 -0.68	41.59 3.41 -0.75	44.46 3.19 -0.91	46.27 3.19 -1.06	48.18 3.20 -1.15	49.37 3.07 -0.56	52.81 3.04 -1.48	72.94 3.35 0.28	74.86 2.86 -2.38	71.86 2.54 1.47	56.82 1.89 2.57	49.02 1.34 0.29	45.68 1.56 -0.75	42.62 1.50 -0.71
KENSICO____ 23655	34.34 1.47 -0.23	32.23 1.26 -0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.08 1.10 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	47.80 2.54 -0.67	46.61 2.61 -1.15	44.29 2.72 -1.51	41.49 2.81 -0.68	41.25 3.07 -0.75	44.30 3.03 -0.91	46.24 3.15 -1.07	48.37 3.38 -1.16	50.99 3.20 -2.03	53.20 3.43 -1.49	76.45 3.84 -2.74	75.35 3.34 -2.38	76.59 3.04 -2.76	61.33 2.42 -1.41	51.02 1.82 -1.23	45.99 1.73 -0.89	42.58 1.45 -0.71
KERHONKS_69_KV_TR1_REV_LBMP_G 345021	34.63 1.86 -0.12	32.67 1.76 -0.07	30.58 1.51 0.00	29.29 1.53 0.00	30.43 1.45 0.00	33.12 1.72 -0.07	42.37 2.64 -0.32	47.98 3.03 -0.37	46.26 2.79 -0.63	43.53 2.64 -0.82	40.88 2.51 -0.37	40.46 2.62 -0.41	43.56 2.70 -0.50	45.50 2.90 -0.58	47.66 3.20 -0.63	50.29 3.43 -1.11	52.86 3.77 -0.81	75.90 4.54 -1.50	75.32 4.39 -1.30	76.40 4.11 -1.51	61.78 3.51 -0.77	51.42 2.78 -0.67	46.37 2.52 -0.49	42.86 2.06 -0.39



KIAC_JFK_GT1 23816	34.31 1.44 -0.23	32.14 1.17 -0.13	30.00 0.93 0.00	28.71 0.94 0.00	29.94 0.96 0.00	32.74 1.28 -0.13	42.28 2.29 -0.59	47.75 2.50 -0.67	46.61 2.61 -1.15	44.29 2.72 -1.51	41.80 3.12 -0.68	41.47 3.29 -0.75	44.42 3.15 -0.91	46.37 3.28 -1.07	48.28 3.29 -1.16	51.08 3.29 -2.04	53.11 3.33 -1.50	76.80 4.19 -2.75	75.56 3.55 -2.39	76.74 3.19 -2.76	61.44 2.53 -1.41	50.98 1.77 -1.24	45.95 1.69 -0.89	42.66 1.54 -0.71
KIAC_JFK_GT2 23817	34.31 1.44 -0.23	32.14 1.17 -0.13	30.00 0.93 0.00	28.71 0.94 0.00	29.94 0.96 0.00	32.74 1.28 -0.13	42.28 2.29 -0.59	47.75 2.50 -0.67	46.61 2.61 -1.15	44.29 2.72 -1.51	41.80 3.12 -0.68	41.47 3.29 -0.75	44.42 3.15 -0.91	46.37 3.28 -1.07	48.28 3.29 -1.16	51.08 3.29 -2.04	53.11 3.33 -1.50	76.80 4.19 -2.75	75.56 3.55 -2.39	76.74 3.19 -2.76	61.44 2.53 -1.41	50.98 1.77 -1.24	45.95 1.69 -0.89	42.66 1.54 -0.71
KIAC_JFK____ 323774	34.31 1.43 -0.23	32.14 1.17 -0.13	29.94 0.87 0.00	28.68 0.91 0.00	29.94 0.96 0.00	32.74 1.28 -0.13	42.01 2.01 -0.59	47.71 2.45 -0.67	46.53 2.53 -1.15	44.21 2.64 -1.51	41.76 3.08 -0.68	41.48 3.29 -0.75	44.34 3.07 -0.91	46.03 2.94 -1.07	48.15 3.16 -1.16	50.99 3.20 -2.04	53.26 3.48 -1.50	76.73 4.12 -2.75	75.49 3.48 -2.39	76.74 3.19 -2.76	61.39 2.47 -1.41	50.93 1.72 -1.24	45.86 1.61 -0.89	42.34 1.21 -0.71
KINTIGH__24_KV_GSU 356498	33.74 0.55 -0.54	31.95 0.68 -0.42	30.16 0.79 -0.30	28.45 0.47 -0.21	29.65 0.38 -0.30	32.32 0.53 -0.46	39.32 -0.98 -0.90	43.08 -1.78 -0.28	41.16 -1.80 -0.10	38.66 -1.40 0.00	37.27 -0.84 -0.10	36.71 -0.79 -0.07	40.60 0.08 -0.16	42.44 0.08 -0.33	43.68 -0.17 -0.03	45.06 -0.78 -0.09	47.40 -1.30 -0.42	65.94 -3.70 0.22	68.20 -3.55 -2.12	70.57 -3.40 -3.17	56.45 -2.93 -1.88	47.32 -1.87 -1.22	42.17 -1.56 -0.36	40.73 -0.32 -0.64
KINTIGH____ 23543	33.71 0.52 -0.54	31.95 0.68 -0.42	29.81 0.44 -0.30	28.28 0.31 -0.21	29.63 0.35 -0.30	32.32 0.53 -0.46	39.28 -1.02 -0.90	42.90 -1.96 -0.28	40.55 -2.40 -0.10	38.02 -2.04 0.00	36.96 -1.14 -0.10	36.45 -1.05 -0.07	40.27 -0.24 -0.16	42.06 -0.29 -0.33	43.29 -0.57 -0.03	44.88 -0.96 -0.09	47.30 -1.40 -0.42	65.80 -3.84 0.22	67.99 -3.76 -2.12	70.49 -3.47 -3.17	56.28 -3.11 -1.88	47.18 -2.01 -1.22	41.86 -1.86 -0.36	40.73 -0.32 -0.64
KNTFSRNC_46_KV_46KV_LOAD 80397	37.98 1.27 -4.06	36.04 1.02 -4.17	34.22 0.87 -4.28	30.32 0.72 -1.84	31.76 0.70 -2.08	35.30 0.69 -3.29	44.23 1.14 -3.68	49.18 1.25 -3.35	45.67 1.29 -1.53	41.64 1.40 -0.18	39.22 1.22 0.00	39.12 1.20 -0.50	41.65 1.29 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.29 -0.46 0.00	47.70 -0.58 0.00	71.64 1.12 -0.66	72.76 1.46 -1.67	74.02 1.63 -1.60	61.33 1.32 -2.51	52.00 0.96 -3.08	47.85 1.17 -3.31	43.69 1.82 -1.45
LACHUTE____HYDRO 323717	34.87 2.45 0.23	32.72 2.00 0.13	31.10 2.03 0.00	29.71 1.94 0.00	31.07 2.09 0.00	33.60 2.41 0.14	41.37 2.56 0.60	47.12 3.21 0.68	43.39 1.72 1.17	39.61 1.08 1.53	37.69 0.38 0.69	36.81 0.15 0.77	39.19 -0.24 0.93	41.15 0.21 1.08	43.14 0.48 1.18	44.91 1.24 2.08	49.03 2.27 1.52	76.08 3.70 -2.52	77.40 5.08 -2.69	80.17 5.67 -3.71	60.14 4.08 1.44	50.16 3.46 1.26	45.19 2.73 0.91	41.71 2.02 0.73
LAWRNCALV_115KV_TB1 80681	82.88 0.13 -50.11	82.39 0.09 -51.45	81.92 0.09 -52.77	50.47 0.06 -22.65	54.68 0.06 -25.64	72.00 0.09 -40.58	85.20 0.24 -45.55	86.11 0.27 -41.26	62.08 0.34 -18.89	42.62 0.32 -2.23	38.27 0.23 -0.04	43.66 0.07 -6.15	40.66 0.24 -0.06	42.27 0.13 -0.12	43.93 0.09 -0.01	45.74 -0.05 -0.03	48.39 -0.05 -0.15	79.61 1.26 -8.49	92.56 1.60 -21.33	93.32 1.70 -20.83	90.45 1.44 -31.51	87.39 1.15 -38.27	85.19 1.04 -40.79	59.53 1.01 -18.11
LEDERLE____ 23769	34.35 1.50 -0.20	32.28 1.33 -0.11	30.20 1.13 0.00	28.87 1.11 0.00	30.14 1.16 0.00	32.82 1.38 -0.12	42.03 2.09 -0.53	47.73 2.54 -0.61	46.42 2.53 -1.04	44.02 2.60 -1.36	41.27 2.66 -0.61	40.95 2.84 -0.68	44.05 2.87 -0.82	45.97 2.98 -0.96	48.12 3.24 -1.04	50.79 3.20 -1.84	53.01 3.38 -1.35	76.04 3.70 -2.48	75.05 3.27 -2.15	76.26 2.97 -2.49	61.19 2.42 -1.28	51.05 1.97 -1.11	46.04 1.86 -0.80	42.55 1.50 -0.64
LIGHTHSE_115KV_TB6 355974	38.83 0.23 -5.95	36.90 0.28 -5.78	34.87 0.23 -5.57	30.54 0.17 -2.61	32.29 0.20 -3.10	36.56 0.34 -4.89	46.27 0.35 -6.51	49.36 0.31 -4.46	44.83 0.00 -1.98	39.98 -0.28 -0.20	38.01 -0.27 -0.27	37.90 -0.26 -0.74	40.46 -0.32 -0.43	42.54 -0.38 -0.89	43.46 -0.44 -0.07	45.68 -0.32 -0.25	49.12 -0.29 -1.13	73.11 -0.49 -3.74	77.23 0.00 -7.60	81.43 0.28 -10.36	65.50 0.11 -7.88	54.84 0.14 -6.73	48.05 0.04 -4.64	43.79 0.04 -3.33
LINDEN COGEN____ 23786	34.31 1.43 -0.23	32.17 1.20 -0.13	29.97 0.90 0.00	20.81 0.94 7.90	19.71 1.01 10.29	23.40 1.25 9.18	25.40 2.09 16.10	25.70 2.54 21.43	25.70 2.61 19.76	25.70 2.76 17.12	26.33 2.89 14.56	26.33 3.14 14.24	26.58 3.07 16.84	32.48 3.19 12.73	34.79 3.42 12.46	36.92 3.34 12.17	40.77 3.52 11.04	42.57 3.91 31.20	43.87 3.34 29.10	41.18 3.04 32.65	36.73 2.36 23.13	35.60 1.68 14.05	29.74 1.61 15.23	26.33 1.33 15.42
LINDHRST_69_KV_BK1 356055	35.03 2.15 -0.23	32.63 1.67 -0.13	30.38 1.31 0.00	28.93 1.17 0.00	30.26 1.28 0.00	33.06 1.60 -0.13	42.40 2.40 -0.59	47.35 2.10 -0.66	46.32 2.31 -1.15	44.45 2.88 -1.51	42.14 3.46 -0.68	42.07 3.89 -0.75	44.98 3.71 -0.91	46.61 3.53 -1.06	48.49 3.51 -1.15	46.76 2.79 1.78	52.95 3.19 -1.48	68.17 3.35 5.05	74.79 2.79 -2.37	65.12 2.48 8.15	50.59 1.96 8.86	46.67 1.39 2.68	45.25 1.34 -0.53	42.87 1.74 -0.71
LIPA_MISC_IPP 23656	34.57 1.70 -0.23	32.17 1.20 -0.13	29.94 0.87 0.00	28.49 0.72 0.00	29.82 0.84 0.00	32.59 1.13 -0.13	41.89 1.89 -0.59	46.63 1.38 -0.66	45.67 1.67 -1.15	43.85 2.28 -1.51	41.61 2.93 -0.68	41.55 3.37 -0.75	44.42 3.15 -0.91	45.98 2.90 -1.06	47.79 2.81 -1.15	45.41 2.06 2.40	52.13 2.37 -1.48	65.73 2.17 6.30	73.67 1.67 -2.37	62.22 1.35 9.92	48.07 1.09 10.52	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
LISF____SOLAR 323691	34.60 1.73 -0.23	32.20 1.24 -0.13	29.91 0.84 0.00	28.48 0.72 0.00	29.85 0.87 0.00	32.62 1.16 -0.13	41.93 1.93 -0.59	46.59 1.34 -0.66	45.58 1.59 -1.14	43.97 2.40 -1.51	41.65 2.97 -0.68	41.44 3.25 -0.75	44.02 2.75 -0.91	45.48 2.39 -1.06	47.31 2.32 -1.15	45.51 2.15 2.39	52.03 2.27 -1.48	65.88 2.30 6.29	73.81 1.81 -2.37	62.38 1.49 9.90	48.09 1.09 10.50	45.38 0.72 3.31	44.37 0.52 -0.48	42.18 1.05 -0.71
LITTLE FALLS____HYD 24013	33.77 0.03 -1.09	32.06 0.09 -1.12	30.31 0.09 -1.15	28.31 0.06 -0.49	29.60 0.06 -0.56	32.34 0.13 -0.89	40.64 0.24 -0.99	45.71 0.22 -0.90	43.35 0.09 -0.41	40.03 -0.08 -0.05	37.89 -0.11 0.00	37.49 -0.07 -0.13	40.16 -0.20 0.00	41.77 -0.25 0.00	43.57 -0.26 0.00	45.57 -0.18 0.00	48.04 -0.24 0.00	69.48 -0.56 -0.18	69.66 -0.42 -0.45	70.80 -0.42 -0.43	57.89 -0.29 -0.68	48.60 -0.19 -0.83	44.08 -0.17 -0.89	40.60 -0.20 -0.39



LITTLRIV_115KV_TB1 356100	80.93 0.39 -47.89	80.38 0.37 -49.17	79.81 0.32 -50.42	49.69 0.28 -21.65	53.78 0.29 -24.51	70.48 0.38 -38.78	83.67 0.71 -43.55	84.77 0.76 -39.42	61.62 0.73 -18.04	42.68 0.48 -2.13	38.42 0.38 -0.04	43.53 0.22 -5.88	40.78 0.36 -0.06	42.40 0.25 -0.13	44.06 0.22 -0.01	46.02 0.23 -0.04	48.78 0.34 -0.16	80.04 2.03 -8.15	92.67 2.58 -20.46	93.65 2.83 -20.02	89.98 2.30 -30.18	86.40 1.82 -36.61	83.95 1.60 -38.98	59.23 1.50 -17.32
LI_NEWBRDGE___DRP 323616	34.51 1.63 -0.23	32.17 1.20 -0.13	30.00 0.93 0.00	28.60 0.83 0.00	29.88 0.90 0.00	32.62 1.16 -0.13	41.85 1.85 -0.59	46.86 1.61 -0.66	45.80 1.80 -1.15	43.93 2.36 -1.51	41.57 2.89 -0.68	41.47 3.29 -0.75	44.30 3.03 -0.91	45.90 2.82 -1.06	47.83 2.85 -1.15	45.30 2.29 2.74	52.37 2.61 -1.48	65.38 2.52 7.00	74.02 2.02 -2.37	61.60 1.70 10.89	47.39 1.32 11.44	45.12 0.82 3.66	44.64 0.82 -0.45	42.34 1.21 -0.71
LOCKPORT_115KV_TB60_63_64 80432	33.86 0.65 -0.56	32.12 0.83 -0.45	29.94 0.55 -0.32	28.40 0.42 -0.22	29.76 0.46 -0.31	32.53 0.72 -0.48	39.25 -1.10 -0.95	42.43 -2.45 -0.29	40.00 -2.96 -0.11	37.54 -2.52 0.00	36.59 -1.52 -0.11	36.11 -1.38 -0.07	40.04 -0.48 -0.17	41.82 -0.55 -0.35	42.98 -0.88 -0.03	44.52 -1.33 -0.10	46.79 -1.93 -0.44	64.88 -4.89 0.09	67.06 -4.80 -2.24	69.74 -4.39 -3.34	55.46 -4.03 -1.98	46.62 -2.64 -1.29	41.36 -2.39 -0.38	40.76 -0.32 -0.67
LOCKPORT___CC1 323769	33.90 0.69 -0.56	32.15 0.86 -0.45	30.35 0.96 -0.32	28.60 0.61 -0.22	29.82 0.52 -0.31	32.53 0.72 -0.49	39.33 -1.02 -0.95	42.74 -2.14 -0.29	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.00 -1.10 -0.11	36.45 -1.05 -0.07	40.48 -0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	44.80 -1.05 -0.10	47.03 -1.69 -0.44	65.10 -4.68 0.08	67.41 -4.46 -2.24	69.89 -4.25 -3.35	55.81 -3.68 -1.99	46.86 -2.40 -1.29	41.79 -1.95 -0.38	40.85 -0.24 -0.67
LOCKPORT___CC2 323770	33.90 0.69 -0.56	32.15 0.86 -0.45	30.35 0.96 -0.32	28.60 0.61 -0.22	29.82 0.52 -0.31	32.53 0.72 -0.49	39.33 -1.02 -0.95	42.74 -2.14 -0.29	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.00 -1.10 -0.11	36.45 -1.05 -0.07	40.48 -0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	44.80 -1.05 -0.10	47.03 -1.69 -0.44	65.10 -4.68 0.08	67.41 -4.46 -2.24	69.89 -4.25 -3.35	55.81 -3.68 -1.99	46.86 -2.40 -1.29	41.79 -1.95 -0.38	40.85 -0.24 -0.67
LOCKPORT___CC3 323771	33.90 0.69 -0.56	32.15 0.86 -0.45	30.35 0.96 -0.32	28.60 0.61 -0.22	29.82 0.52 -0.31	32.53 0.72 -0.49	39.33 -1.02 -0.95	42.74 -2.14 -0.29	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.00 -1.10 -0.11	36.45 -1.05 -0.07	40.48 -0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	44.80 -1.05 -0.10	47.03 -1.69 -0.44	65.10 -4.68 0.08	67.41 -4.46 -2.24	69.89 -4.25 -3.35	55.81 -3.68 -1.99	46.86 -2.40 -1.29	41.79 -1.95 -0.38	40.85 -0.24 -0.67
LOCUSVLY_69_KV_BK2 55797	34.77 1.89 -0.23	32.45 1.48 -0.13	30.26 1.19 0.00	28.85 1.08 0.00	30.17 1.19 0.00	32.93 1.47 -0.13	42.24 2.25 -0.59	47.39 2.14 -0.67	46.36 2.36 -1.15	44.41 2.84 -1.51	41.95 3.27 -0.68	41.85 3.67 -0.75	44.70 3.43 -0.91	46.40 3.32 -1.06	48.36 3.38 -1.15	48.37 2.84 0.22	52.95 3.19 -1.48	71.43 3.42 1.85	74.86 2.85 -2.38	69.66 2.55 3.68	54.80 1.96 4.65	48.28 1.39 1.08	45.43 1.39 -0.68	42.70 1.58 -0.71
LONG_LAKE_PHOENIX 24014	36.00 -0.16 -3.51	33.83 -0.15 -3.14	31.65 -0.15 -2.73	29.07 -0.17 -1.47	30.69 -0.17 -1.88	34.14 -0.13 -2.94	43.82 -0.32 -4.72	46.42 -0.45 -2.28	43.21 -0.60 -0.96	39.49 -0.64 -0.07	37.84 -0.53 -0.37	37.38 -0.49 -0.44	40.43 -0.52 -0.59	42.71 -0.55 -1.23	43.36 -0.57 -0.09	45.59 -0.50 -0.34	49.31 -0.53 -1.56	73.68 -1.05 -4.86	77.27 -0.91 -8.55	82.46 -0.78 -12.44	64.73 -0.75 -7.97	53.06 -0.62 -5.72	45.29 -0.65 -2.57	42.81 -0.53 -2.92
LOVETT___3 23632	34.19 1.34 -0.21	32.10 1.14 -0.12	30.03 0.96 0.00	28.71 0.94 0.00	29.97 0.99 0.00	32.64 1.19 -0.12	41.80 1.85 -0.54	47.48 2.27 -0.62	46.22 2.31 -1.06	43.85 2.40 -1.39	41.13 2.51 -0.62	40.81 2.69 -0.69	43.86 2.66 -0.84	45.82 2.82 -0.98	47.88 2.98 -1.06	50.51 2.88 -1.87	52.70 3.04 -1.37	75.67 3.28 -2.53	74.61 2.79 -2.19	75.88 2.55 -2.54	60.87 2.07 -1.30	50.69 1.58 -1.14	45.75 1.56 -0.82	42.32 1.25 -0.65
LOVETT___4 23642	34.19 1.34 -0.21	32.10 1.14 -0.12	30.03 0.96 0.00	28.71 0.94 0.00	29.97 0.99 0.00	32.64 1.19 -0.12	41.80 1.85 -0.54	47.48 2.27 -0.62	46.22 2.31 -1.06	43.85 2.40 -1.39	41.13 2.51 -0.62	40.81 2.69 -0.69	43.86 2.66 -0.84	45.82 2.82 -0.98	47.88 2.98 -1.06	50.51 2.88 -1.87	52.70 3.04 -1.37	75.67 3.28 -2.53	74.61 2.79 -2.19	75.88 2.55 -2.54	60.87 2.07 -1.30	50.69 1.58 -1.14	45.75 1.56 -0.82	42.32 1.25 -0.65
LOVETT___5 23593	34.19 1.34 -0.21	32.10 1.14 -0.12	30.03 0.96 0.00	28.71 0.94 0.00	29.97 0.99 0.00	32.64 1.19 -0.12	41.80 1.85 -0.54	47.48 2.27 -0.62	46.22 2.31 -1.06	43.85 2.40 -1.39	41.13 2.51 -0.62	40.81 2.69 -0.69	43.86 2.66 -0.84	45.82 2.82 -0.98	47.88 2.98 -1.06	50.51 2.88 -1.87	52.70 3.04 -1.37	75.67 3.28 -2.53	74.61 2.79 -2.19	75.88 2.55 -2.54	60.87 2.07 -1.30	50.69 1.58 -1.14	45.75 1.56 -0.82	42.32 1.25 -0.65
LOWER RAQUET___HYD 24057	78.61 0.16 -45.80	77.99 0.12 -47.02	77.40 0.12 -48.21	48.55 0.08 -20.70	52.51 0.09 -23.44	68.54 0.13 -37.09	81.43 0.35 -41.67	82.64 0.36 -37.70	60.53 0.43 -17.25	42.42 0.32 -2.04	38.27 0.23 -0.04	43.16 0.11 -5.63	40.67 0.24 -0.07	42.28 0.13 -0.14	43.89 0.04 -0.01	45.74 -0.05 -0.04	48.45 0.00 -0.17	79.02 1.32 -7.83	91.01 1.74 -19.64	91.97 1.91 -19.27	87.98 1.55 -28.93	84.31 1.30 -35.04	81.77 1.13 -37.28	58.09 1.09 -16.58
LOWER___HUDSON 24059	33.18 0.82 0.28	31.37 0.68 0.16	29.71 0.64 0.00	28.46 0.69 0.00	29.68 0.69 0.00	31.94 0.78 0.17	39.78 1.10 0.73	45.14 1.38 0.83	42.54 1.11 1.43	39.20 1.00 1.87	37.85 0.68 0.84	37.20 0.71 0.93	39.75 0.52 1.13	41.34 0.63 1.32	43.15 0.74 1.43	44.28 1.05 2.52	47.74 1.30 1.85	77.10 1.40 -5.84	77.04 1.46 -5.95	80.14 1.42 -7.93	56.84 1.09 1.75	47.30 0.86 1.53	42.96 0.69 1.10	39.98 0.45 0.88
LOWVILLE_115KV_TB2 356335	47.06 0.91 -13.50	45.56 0.96 -13.76	43.94 0.87 -14.00	34.56 0.72 -6.08	36.72 0.81 -6.92	43.34 1.07 -10.95	53.51 1.50 -12.61	57.17 1.61 -10.98	48.97 1.11 -5.01	41.16 0.52 -0.58	38.47 0.38 -0.09	39.46 0.37 -1.66	40.87 0.36 -0.15	42.24 -0.08 -0.30	43.64 -0.22 -0.02	45.88 0.05 -0.08	48.66 0.00 -0.38	73.60 0.70 -3.03	78.46 1.53 -7.30	80.73 1.91 -8.03	68.87 1.61 -9.76	60.29 1.34 -10.98	55.42 1.13 -10.92	46.54 0.89 -5.24
LUTHERFT_115KV_GLOB_FND_222 355753	33.70 1.27 0.23	31.80 1.08 0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.08 1.10 0.00	32.41 1.22 0.13	40.28 1.46 0.59	45.75 1.83 0.67	42.94 1.24 1.15	39.52 0.96 1.50	37.86 0.53 0.68	37.12 0.45 0.75	39.65 0.20 0.91	41.38 0.42 1.06	43.29 0.61 1.15	44.68 0.96 2.03	48.24 1.45 1.49	74.13 1.96 -2.31	74.55 2.44 -2.48	76.86 2.62 -3.45	58.05 1.96 1.41	48.37 1.63 1.23	43.82 1.34 0.89	40.63 0.93 0.71



LUTHERNY_35_KV_BK2 355980	33.70 1.27 0.23	31.80 1.08 0.13	30.17 1.10 0.00	28.85 1.08 0.00	30.11 1.13 0.00	32.44 1.25 0.13	40.32 1.50 0.59	45.79 1.87 0.67	42.94 1.24 1.15	39.52 0.96 1.50	37.86 0.53 0.68	37.12 0.45 0.75	39.69 0.24 0.91	41.42 0.46 1.06	43.29 0.61 1.15	44.73 1.01 2.03	48.29 1.50 1.49	74.20 2.03 -2.31	74.62 2.51 -2.48	76.86 2.62 -3.45	58.10 2.01 1.41	48.41 1.68 1.23	43.82 1.34 0.89	40.67 0.97 0.71
LWR___OSWEGATCHIE_HYD 23850	64.49 0.52 -31.32	63.46 0.52 -32.09	62.37 0.47 -32.84	42.29 0.39 -14.14	45.46 0.43 -16.04	57.30 0.60 -25.38	69.01 0.91 -28.69	71.27 0.98 -25.70	55.33 0.73 -11.75	41.80 0.36 -1.38	38.31 0.23 -0.08	41.42 0.15 -3.85	40.72 0.24 -0.12	42.23 -0.04 -0.25	43.77 -0.09 -0.02	45.82 0.00 -0.07	48.60 0.00 -0.32	76.71 1.05 -5.80	85.73 1.74 -14.36	87.39 1.98 -14.61	79.70 1.67 -20.54	73.72 1.39 -24.36	69.99 1.17 -25.45	52.98 1.01 -11.56
LYONS_FALL_HYD 23570	42.56 0.85 -9.07	40.96 0.90 -9.23	39.29 0.84 -9.38	32.54 0.69 -4.08	34.39 0.75 -4.65	39.66 0.97 -7.36	49.30 1.38 -8.51	53.46 1.52 -7.36	47.27 1.07 -3.35	41.01 0.56 -0.39	38.53 0.46 -0.07	38.99 0.45 -1.12	40.92 0.44 -0.11	42.39 0.13 -0.24	43.94 0.09 -0.02	46.18 0.36 -0.07	48.97 0.38 -0.30	72.98 0.98 -2.13	76.40 1.67 -5.10	78.47 1.98 -5.70	65.83 1.61 -6.72	56.77 1.34 -7.46	51.78 1.08 -7.33	44.87 0.89 -3.57
MADISON___COUNTY_LFGE 323628	36.92 0.95 -3.32	35.10 0.96 -3.30	33.23 0.90 -3.26	30.04 0.81 -1.47	31.57 0.87 -1.72	35.14 1.10 -2.71	44.22 1.42 -3.39	48.69 1.52 -2.59	45.17 1.16 -1.16	40.87 0.68 -0.13	38.70 0.61 -0.09	38.44 0.60 -0.41	41.11 0.61 -0.15	42.91 0.59 -0.30	44.47 0.61 -0.02	46.80 0.96 -0.08	49.73 1.06 -0.38	72.85 1.61 -3.12	74.90 2.16 -4.03	77.23 2.41 -3.48	62.88 1.90 -3.27	52.72 1.49 -3.27	47.22 1.21 -2.64	43.06 1.05 -1.60
MALONE___115KV_TB1 356076	50.02 0.82 -16.55	48.50 0.65 -17.01	47.08 0.55 -17.46	35.72 0.47 -7.49	37.91 0.46 -8.47	45.20 0.47 -13.40	55.31 0.91 -15.00	59.22 0.98 -13.65	50.09 0.99 -6.25	41.84 1.04 -0.74	38.88 0.87 0.00	40.28 0.82 -2.03	41.33 0.97 0.00	42.74 0.71 0.00	44.40 0.57 0.00	45.75 0.00 0.00	48.33 0.05 0.00	74.44 1.89 -2.69	78.67 2.23 -6.82	79.72 2.41 -6.52	69.74 2.01 -10.22	62.09 1.58 -12.54	58.28 1.43 -13.48	47.96 1.62 -5.93
MAPLEWOD_115KV_TB3 80458	32.95 0.49 0.19	31.14 0.40 0.11	29.50 0.44 0.00	28.26 0.50 0.00	29.45 0.46 0.00	31.71 0.50 0.11	39.62 0.71 0.49	45.00 0.98 0.56	42.65 0.77 0.97	39.52 0.72 1.26	37.89 0.46 0.57	37.28 0.49 0.63	39.79 0.20 0.77	41.47 0.34 0.89	43.30 0.44 0.97	44.64 0.59 1.71	47.80 0.77 1.25	63.10 0.56 7.32	63.42 0.63 6.83	62.81 0.50 8.48	56.72 0.40 1.19	47.22 0.29 1.04	42.84 0.22 0.75	39.82 0.00 0.60
MAPLE_RIDGE_WT_1 323574	31.33 -0.16 1.15	29.50 -0.15 1.19	27.71 -0.14 1.22	27.13 -0.11 0.52	28.28 -0.12 0.59	30.27 -0.12 0.93	38.21 -0.16 1.05	43.46 -0.18 0.95	42.29 -0.13 0.44	39.93 -0.08 0.05	37.93 -0.08 0.00	37.17 -0.11 0.14	40.24 -0.12 0.00	41.77 -0.25 0.00	43.44 -0.40 0.00	45.25 -0.50 0.00	47.75 -0.53 0.00	69.19 -0.49 0.19	68.67 -0.48 0.48	69.85 -0.49 0.45	56.44 -0.34 0.71	46.85 -0.24 0.87	42.25 -0.17 0.94	39.84 -0.16 0.41
MAPLE_RIDGE_WT_2 323611	31.33 -0.16 1.15	29.50 -0.15 1.19	27.71 -0.14 1.22	27.13 -0.11 0.52	28.28 -0.12 0.59	30.27 -0.12 0.93	38.21 -0.16 1.05	43.46 -0.18 0.95	42.29 -0.13 0.44	39.93 -0.08 0.05	37.93 -0.08 0.00	37.17 -0.11 0.14	40.24 -0.12 0.00	41.77 -0.25 0.00	43.44 -0.40 0.00	45.25 -0.50 0.00	47.75 -0.53 0.00	69.19 -0.49 0.19	68.67 -0.48 0.48	69.85 -0.49 0.45	56.44 -0.34 0.71	46.85 -0.24 0.87	42.25 -0.17 0.94	39.84 -0.16 0.41
MARBLE_RIVER_WT_PWR 323696	37.32 1.21 -3.47	35.33 0.92 -3.56	33.45 0.73 -3.66	29.89 0.56 -1.57	31.28 0.52 -1.77	34.57 0.44 -2.81	43.34 0.79 -3.14	48.29 0.85 -2.86	45.15 0.99 -1.31	41.42 1.20 -0.16	39.10 1.10 0.00	38.90 1.05 -0.43	41.49 1.13 0.00	42.82 0.80 0.00	44.36 0.53 0.00	44.79 -0.96 0.00	47.03 -1.26 0.00	70.50 0.07 -0.56	71.55 0.49 -1.43	72.79 0.64 -1.37	60.05 0.41 -2.14	50.84 0.24 -2.63	46.88 0.69 -2.83	43.15 1.50 -1.24
MARSHVLE_115KV_TB1 80742	34.68 2.15 0.12	32.75 1.97 0.07	30.99 1.92 0.00	29.57 1.80 0.00	30.92 1.94 0.00	33.48 2.22 0.07	41.78 2.68 0.31	47.18 2.94 0.35	43.83 1.59 0.61	39.95 0.68 0.80	37.76 0.11 0.36	37.03 0.00 0.40	39.71 -0.16 0.48	41.46 0.00 0.56	43.31 0.09 0.61	45.18 0.50 1.08	48.75 1.26 0.79	71.00 2.58 1.45	72.75 4.39 1.26	74.43 5.10 1.46	60.66 3.91 0.75	50.62 3.31 0.65	45.59 2.69 0.47	42.34 2.30 0.38
MARSH_HILL_WT_PWR 323713	34.88 1.50 -0.73	32.81 1.39 -0.58	30.97 1.48 -0.42	29.19 1.14 -0.29	30.58 1.19 -0.41	33.49 1.53 -0.63	41.31 0.67 -1.23	45.06 0.09 -0.38	42.65 -0.34 -0.14	39.70 -0.36 0.00	38.14 0.00 -0.14	37.48 -0.04 -0.10	41.22 0.64 -0.22	43.11 0.63 -0.45	44.18 0.31 -0.03	45.88 0.00 -0.13	48.47 -0.39 -0.57	68.94 -1.68 -0.75	71.63 -0.91 -2.91	74.86 -0.28 -4.35	59.57 -0.52 -2.59	49.55 -0.10 -1.68	43.73 -0.13 -0.49	42.14 0.85 -0.87
MCINTYRE_115KV_TB2 80467	84.31 0.42 -51.24	83.89 0.43 -52.62	83.41 0.38 -53.97	51.26 0.33 -23.16	55.55 0.35 -26.22	73.26 0.44 -41.50	86.77 0.79 -46.58	87.63 0.85 -42.20	62.94 0.77 -19.31	42.87 0.52 -2.28	38.42 0.38 -0.04	43.91 0.19 -6.29	40.78 0.36 -0.06	42.39 0.25 -0.12	44.11 0.26 -0.01	46.06 0.27 -0.03	48.86 0.43 -0.15	80.76 2.24 -8.66	94.33 2.92 -21.77	95.14 3.11 -21.24	92.23 2.53 -32.20	89.15 2.06 -39.12	86.86 1.78 -41.71	60.54 1.62 -18.51
MECO_____69_KV_BK1 80468	34.74 2.22 0.13	32.74 1.97 0.07	30.99 1.92 0.00	29.60 1.83 0.00	30.95 1.97 0.00	33.50 2.26 0.08	41.75 2.68 0.34	47.27 3.08 0.39	43.85 1.67 0.67	39.99 0.80 0.87	37.72 0.11 0.39	36.91 -0.07 0.44	39.46 -0.36 0.53	41.28 -0.13 0.62	43.21 0.04 0.67	45.12 0.55 1.18	48.96 1.55 0.87	71.34 3.07 1.59	72.98 4.73 1.38	74.43 5.24 1.60	60.71 4.03 0.82	50.66 3.41 0.72	45.63 2.78 0.52	42.31 2.30 0.41
MENANDS___115KV_TB5 355628	32.78 0.33 0.19	30.98 0.25 0.11	29.36 0.29 0.00	28.13 0.36 0.00	29.30 0.32 0.00	31.56 0.34 0.11	39.39 0.47 0.49	44.78 0.76 0.56	42.53 0.64 0.96	39.40 0.60 1.26	37.78 0.34 0.57	37.17 0.37 0.63	39.67 0.08 0.76	41.30 0.17 0.89	43.13 0.26 0.97	44.46 0.41 1.70	47.57 0.53 1.25	62.62 0.14 7.38	62.88 0.14 6.89	62.24 0.00 8.55	56.32 0.00 1.18	46.93 0.00 1.03	42.58 -0.04 0.74	39.58 -0.24 0.60
MG INDUSTRY___DRP 24185	33.09 0.52 0.08	31.26 0.46 0.04	29.53 0.47 0.00	28.29 0.53 0.00	29.48 0.49 0.00	31.81 0.53 0.05	39.87 0.67 0.21	45.19 0.85 0.24	43.04 0.60 0.41	39.96 0.44 0.54	37.95 0.19 0.24	37.34 0.19 0.27	39.75 -0.28 0.33	41.48 -0.17 0.38	43.33 -0.09 0.41	45.07 0.05 0.73	47.12 -0.63 0.53	65.29 -1.26 3.32	65.41 -1.11 3.10	65.74 -1.20 3.85	56.13 -0.86 0.50	46.81 -0.72 0.44	42.36 -0.69 0.32	39.35 -0.81 0.25



MID___OSWEGATCHIE_HYD 23849	64.49 0.52 -31.32	63.46 0.52 -32.09	62.37 0.47 -32.84	42.29 0.39 -14.14	45.46 0.43 -16.04	57.30 0.60 -25.38	69.01 0.91 -28.69	71.27 0.98 -25.70	55.33 0.73 -11.75	41.80 0.36 -1.38	38.31 0.23 -0.08	41.42 0.15 -3.85	40.72 0.24 -0.12	42.23 -0.04 -0.25	43.77 -0.09 -0.02	45.82 0.00 -0.07	48.60 0.00 -0.32	76.71 1.05 -5.80	85.73 1.74 -14.36	87.39 1.98 -14.61	79.70 1.67 -20.54	73.72 1.39 -24.36	69.99 1.17 -25.45	52.98 1.01 -11.56
MID___RAQUETTE_HYD 23851	78.61 0.16 -45.80	77.99 0.12 -47.02	77.40 0.12 -48.21	48.55 0.08 -20.70	52.51 0.09 -23.44	68.54 0.13 -37.09	81.43 0.35 -41.67	82.69 0.40 -37.70	60.53 0.43 -17.25	42.42 0.32 -2.04	38.31 0.27 -0.04	43.16 0.11 -5.63	40.66 0.24 -0.07	42.28 0.13 -0.14	43.89 0.04 -0.01	45.74 -0.05 -0.04	48.45 0.00 -0.17	79.02 1.33 -7.83	91.01 1.74 -19.64	91.97 1.91 -19.27	87.98 1.55 -28.93	84.31 1.30 -35.04	81.77 1.13 -37.28	58.09 1.09 -16.58
MILLIKEN___1 23584	34.57 0.91 -1.01	32.47 0.83 -0.80	30.45 0.81 -0.57	28.86 0.69 -0.40	30.35 0.81 -0.56	33.16 0.97 -0.87	42.08 0.99 -1.69	46.00 0.89 -0.52	43.56 0.51 -0.20	40.34 0.28 0.00	38.57 0.38 -0.19	37.97 0.41 -0.13	41.22 0.56 -0.30	43.23 0.59 -0.62	44.45 0.57 -0.05	46.70 0.78 -0.17	49.89 0.82 -0.79	72.73 0.98 -1.89	74.88 1.25 -4.00	78.39 1.63 -5.97	62.20 1.15 -3.55	51.23 0.96 -2.30	44.74 0.69 -0.67	42.46 0.85 -1.20
MILLIKEN___2 23585	34.57 0.91 -1.01	32.47 0.83 -0.80	30.45 0.81 -0.57	28.86 0.69 -0.40	30.35 0.81 -0.56	33.16 0.97 -0.87	42.08 0.99 -1.69	46.00 0.89 -0.52	43.56 0.51 -0.20	40.34 0.28 0.00	38.57 0.38 -0.19	37.97 0.41 -0.13	41.22 0.56 -0.30	43.23 0.59 -0.62	44.45 0.57 -0.05	46.70 0.78 -0.17	49.89 0.82 -0.79	72.73 0.98 -1.89	74.88 1.25 -4.00	78.39 1.63 -5.97	62.20 1.15 -3.55	51.23 0.96 -2.30	44.74 0.69 -0.67	42.46 0.85 -1.20
MILLIKEN___DIESEL 23629	34.57 0.91 -1.01	32.47 0.83 -0.80	30.45 0.81 -0.57	28.86 0.69 -0.40	30.35 0.81 -0.56	33.16 0.97 -0.87	42.08 0.99 -1.69	46.00 0.89 -0.52	43.56 0.51 -0.20	40.34 0.28 0.00	38.57 0.38 -0.19	37.97 0.41 -0.13	41.22 0.56 -0.30	43.23 0.59 -0.62	44.45 0.57 -0.05	46.70 0.78 -0.17	49.89 0.82 -0.79	72.73 0.98 -1.89	74.88 1.25 -4.00	78.39 1.63 -5.97	62.20 1.15 -3.55	51.23 0.96 -2.30	44.74 0.69 -0.67	42.46 0.85 -1.20
MILLSEAT___LFGE 323607	34.45 1.24 -0.56	32.74 1.45 -0.45	30.84 1.45 -0.32	29.07 1.08 -0.22	30.37 1.07 -0.31	33.15 1.35 -0.48	40.27 -0.08 -0.94	43.99 -0.89 -0.29	42.02 -0.94 -0.11	39.18 -0.88 0.00	37.69 -0.42 -0.11	37.12 -0.37 -0.07	41.21 0.69 -0.17	43.21 0.84 -0.35	44.47 0.61 -0.03	45.98 0.14 -0.10	48.53 -0.19 -0.44	67.78 -1.96 0.12	70.26 -1.60 -2.23	72.85 -1.27 -3.33	58.10 -1.38 -1.98	48.53 -0.72 -1.28	43.18 -0.56 -0.38	41.81 0.73 -0.67
MILLWOOD_138_KV_38W41_REV_LBMP_H 345005	34.28 1.40 -0.23	32.20 1.23 -0.13	30.09 1.02 0.00	28.79 1.03 0.00	30.03 1.04 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	47.71 2.45 -0.67	46.48 2.49 -1.15	44.17 2.60 -1.50	41.34 2.66 -0.68	41.06 2.88 -0.75	44.13 2.87 -0.91	46.07 2.98 -1.06	48.19 3.20 -1.15	50.85 3.07 -2.03	53.01 3.23 -1.49	76.23 3.63 -2.74	75.14 3.13 -2.38	76.37 2.83 -2.75	61.15 2.24 -1.41	50.93 1.73 -1.23	45.90 1.65 -0.89	42.46 1.33 -0.71
MILLWOOD_13_KV_LOAD 356217	34.38 1.50 -0.23	32.26 1.30 -0.13	30.17 1.10 0.00	28.82 1.06 0.00	30.08 1.10 0.00	32.77 1.32 -0.13	42.12 2.13 -0.59	47.84 2.59 -0.67	46.65 2.66 -1.15	44.29 2.72 -1.50	41.45 2.77 -0.68	41.17 2.99 -0.75	44.25 2.99 -0.91	46.20 3.11 -1.06	48.32 3.33 -1.15	51.03 3.25 -2.03	53.15 3.38 -1.49	76.44 3.84 -2.74	75.35 3.34 -2.38	76.59 3.04 -2.75	61.32 2.42 -1.41	51.07 1.87 -1.23	45.99 1.73 -0.89	42.58 1.45 -0.71
MODEL_CITY_ENERGY 24167	33.57 0.36 -0.56	31.85 0.56 -0.45	30.08 0.70 -0.32	28.38 0.39 -0.22	29.55 0.26 -0.31	32.22 0.41 -0.48	38.94 -1.42 -0.95	42.34 -2.54 -0.29	40.47 -2.49 -0.11	38.02 -2.04 0.00	36.74 -1.37 -0.11	36.19 -1.31 -0.07	40.16 -0.36 -0.17	41.99 -0.38 -0.35	43.20 -0.66 -0.03	44.43 -1.42 -0.10	46.65 -2.07 -0.44	64.54 -5.24 0.08	66.79 -5.08 -2.24	69.25 -4.88 -3.34	55.29 -4.20 -1.99	46.47 -2.78 -1.29	41.45 -2.30 -0.38	40.44 -0.65 -0.67
MODERN_LFGE___ 323580	33.57 0.36 -0.56	31.85 0.56 -0.45	30.08 0.70 -0.32	28.38 0.39 -0.22	29.55 0.26 -0.31	32.22 0.41 -0.48	38.94 -1.42 -0.95	42.34 -2.54 -0.29	40.47 -2.49 -0.11	38.02 -2.04 0.00	36.74 -1.37 -0.11	36.19 -1.31 -0.07	40.16 -0.36 -0.17	41.99 -0.38 -0.35	43.20 -0.66 -0.03	44.43 -1.42 -0.10	46.65 -2.07 -0.44	64.54 -5.24 0.08	66.79 -5.08 -2.24	69.25 -4.88 -3.34	55.29 -4.20 -1.99	46.47 -2.78 -1.29	41.45 -2.30 -0.38	40.44 -0.65 -0.67
MOHAWK_PAPER___DRP 24187	32.95 0.49 0.19	31.14 0.40 0.11	29.50 0.44 0.00	28.26 0.50 0.00	29.45 0.46 0.00	31.71 0.50 0.11	39.62 0.71 0.49	45.00 0.98 0.56	42.65 0.77 0.97	39.52 0.72 1.26	37.89 0.46 0.57	37.28 0.49 0.63	39.79 0.20 0.77	41.47 0.34 0.89	43.30 0.44 0.97	44.64 0.59 1.71	47.80 0.77 1.25	63.10 0.56 7.32	63.42 0.63 6.83	62.81 0.50 8.48	56.72 0.40 1.19	47.22 0.29 1.04	42.84 0.22 0.75	39.82 0.00 0.60
MOHICAN___35_KV_115KV_LD 80490	33.75 1.34 0.23	31.79 1.08 0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.53 1.35 0.14	40.26 1.46 0.61	45.77 1.87 0.69	42.61 0.94 1.18	39.07 0.56 1.55	37.31 0.00 0.70	36.50 -0.15 0.78	38.93 -0.48 0.94	40.76 -0.17 1.09	42.65 0.00 1.19	44.16 0.50 2.09	47.91 1.16 1.53	74.28 1.82 -2.60	75.04 2.65 -2.77	77.51 2.90 -3.82	58.12 2.07 1.45	48.43 1.73 1.27	43.84 1.39 0.91	40.53 0.85 0.73
MONGAUP___HYD 23641	34.46 1.63 -0.18	32.46 1.51 -0.10	30.35 1.28 0.00	29.07 1.31 0.00	30.29 1.31 0.00	32.97 1.53 -0.11	42.13 2.25 -0.47	47.66 2.54 -0.54	45.91 2.14 -0.92	43.23 1.96 -1.21	40.44 1.90 -0.54	40.01 1.98 -0.61	43.07 1.98 -0.73	45.02 2.14 -0.85	47.13 2.37 -0.93	49.99 2.61 -1.63	52.38 2.90 -1.20	75.56 3.49 -2.20	74.95 3.41 -1.91	76.26 3.26 -2.21	61.45 2.82 -1.13	51.21 2.25 -0.99	46.08 2.00 -0.71	42.60 1.62 -0.57
MONTAUK___DIESEL 23721	35.13 2.25 -0.23	32.73 1.76 -0.13	30.52 1.45 0.00	29.07 1.30 0.00	30.46 1.48 0.00	33.21 1.75 -0.13	42.48 2.48 -0.59	47.43 2.18 -0.66	46.49 2.49 -1.15	44.73 3.16 -1.51	42.67 3.99 -0.68	42.67 4.49 -0.75	45.79 4.52 -0.91	47.49 4.41 -1.06	49.45 4.47 -1.15	47.20 3.84 2.40	54.11 4.35 -1.48	68.60 5.03 6.30	76.52 4.53 -2.37	65.06 4.18 9.91	50.03 3.05 10.51	46.67 2.01 3.31	45.10 1.26 -0.48	42.74 1.62 -0.71
MOONROAD_115KV_HARTFLD_TB1-2 355988	35.13 1.89 -0.59	33.16 1.85 -0.46	31.00 1.60 -0.33	29.30 1.30 -0.23	30.81 1.51 -0.32	33.83 2.00 -0.50	41.18 0.79 -0.98	44.98 0.09 -0.30	42.23 -0.73 -0.11	39.62 -0.44 0.00	38.61 0.49 -0.11	38.06 0.56 -0.08	42.06 1.53 -0.17	43.81 1.43 -0.36	44.91 1.05 -0.03	46.77 0.92 -0.10	48.88 0.14 -0.46	68.05 -1.89 -0.07	70.14 -1.81 -2.33	72.85 -1.42 -3.48	57.78 -1.78 -2.06	48.54 -0.77 -1.34	42.94 -0.82 -0.39	41.88 0.77 -0.70



MORRIS_RIDGE___SOLAR 323848	34.38 1.08 -0.66	32.41 1.05 -0.52	30.60 1.16 -0.37	28.89 0.86 -0.26	30.21 0.87 -0.36	33.02 1.13 -0.57	40.59 0.08 -1.10	44.30 -0.62 -0.34	41.95 -1.03 -0.13	39.10 -0.96 0.00	37.56 -0.57 -0.12	36.95 -0.56 -0.09	40.67 0.12 -0.20	42.55 0.13 -0.40	43.69 -0.17 -0.03	45.27 -0.60 -0.11	47.73 -1.06 -0.51	67.50 -2.80 -0.43	70.22 -2.02 -2.61	73.13 -1.56 -3.90	58.32 -1.50 -2.32	48.66 -0.82 -1.50	43.11 -0.70 -0.44	41.60 0.40 -0.78
MORTIMER_115KV_TB3 55949	33.76 0.56 -0.55	31.96 0.68 -0.44	29.85 0.47 -0.31	28.34 0.36 -0.22	29.72 0.43 -0.30	32.43 0.63 -0.47	40.18 -0.16 -0.93	44.25 -0.62 -0.29	42.06 -0.90 -0.11	39.14 -0.92 0.00	37.61 -0.49 -0.10	37.09 -0.41 -0.07	40.72 0.20 -0.16	42.61 0.25 -0.34	43.99 0.13 -0.03	45.94 0.09 -0.09	48.71 0.00 -0.43	68.78 -0.84 0.24	71.12 -0.70 -2.19	73.71 -0.35 -3.28	58.81 -0.63 -1.95	48.85 -0.38 -1.26	43.30 -0.43 -0.37	41.31 0.24 -0.66
MOTTHAVN_138_KV_9M4_REV_LBMP_J 345006	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.29 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.76 3.08 -0.68	41.51 3.33 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.63 3.64 -1.16	51.27 3.48 -2.04	53.50 3.72 -1.50	76.87 4.26 -2.75	75.70 3.69 -2.39	76.88 3.33 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.17 1.91 -0.89	42.74 1.62 -0.71
MUNSVILLE_WIND_PWR 323609	35.77 2.42 -0.71	33.84 2.44 -0.56	31.82 2.35 -0.40	30.07 2.03 -0.28	31.61 2.23 -0.39	34.69 2.76 -0.61	44.10 3.51 -1.19	48.70 3.75 -0.37	45.81 2.83 -0.14	41.70 1.64 0.00	39.58 1.44 -0.13	38.83 1.31 -0.09	42.06 1.49 -0.21	43.97 1.51 -0.44	45.40 1.53 -0.03	48.11 2.24 -0.12	51.49 2.65 -0.55	75.46 4.26 -1.33	78.08 5.64 -2.81	81.43 6.44 -4.20	65.11 5.12 -2.50	53.66 4.07 -1.62	47.23 3.38 -0.47	44.37 3.11 -0.84
N SALMON___HYD 24042	50.02 0.82 -16.55	48.50 0.65 -17.01	47.08 0.55 -17.46	35.72 0.47 -7.49	37.91 0.46 -8.47	45.20 0.47 -13.40	55.31 0.91 -15.00	59.22 0.98 -13.65	50.09 0.99 -6.25	41.84 1.04 -0.74	38.88 0.87 0.00	40.28 0.82 -2.03	41.32 0.97 0.00	42.74 0.71 0.00	44.40 0.57 0.00	45.75 0.00 0.00	48.33 0.05 0.00	74.44 1.89 -2.69	78.67 2.23 -6.82	79.72 2.41 -6.52	69.68 1.96 -10.22	62.09 1.58 -12.54	58.28 1.43 -13.48	47.96 1.62 -5.93
N.AKRON__115KV_KNAPP 355671	34.58 1.37 -0.56	32.86 1.57 -0.45	30.58 1.19 -0.32	28.99 1.00 -0.22	30.45 1.16 -0.31	33.28 1.47 -0.48	40.47 0.12 -0.94	44.03 -0.85 -0.29	41.54 -1.41 -0.11	38.70 -1.36 0.00	37.50 -0.61 -0.11	36.97 -0.52 -0.07	41.01 0.48 -0.17	42.96 0.59 -0.35	44.17 0.31 -0.03	45.98 0.14 -0.10	48.58 -0.14 -0.44	67.99 -1.75 0.12	70.46 -1.39 -2.23	73.27 -0.85 -3.33	58.21 -1.27 -1.98	48.58 -0.67 -1.28	43.09 -0.65 -0.38	41.97 0.89 -0.67
N.E_GEN_SANDY PD 24062	31.52 0.69 1.81	30.42 0.58 1.01	29.53 0.46 0.00	28.32 0.56 0.00	29.53 0.55 0.00	30.88 0.63 1.07	35.79 1.10 4.72	40.60 1.38 5.37	35.00 1.37 9.22	29.40 1.40 12.06	33.83 1.25 5.42	32.73 1.35 6.04	34.25 1.21 7.31	34.76 1.26 8.52	35.99 1.40 9.25	31.00 1.56 16.31	38.03 1.69 11.94	51.64 1.67 19.90	53.93 1.39 17.09	52.46 1.20 19.53	47.10 0.92 11.32	38.75 0.67 9.89	37.88 0.61 6.09	34.00 0.32 6.74
N.HEMPST_138_KV_BK345_REV_LBMP_G 345014	34.22 1.37 -0.21	32.16 1.20 -0.11	30.09 1.02 0.00	28.76 1.00 0.00	30.03 1.04 0.00	32.70 1.25 -0.12	41.88 1.93 -0.54	47.51 2.32 -0.61	46.25 2.36 -1.05	43.87 2.44 -1.37	41.13 2.51 -0.62	40.84 2.73 -0.69	43.89 2.70 -0.83	45.81 2.82 -0.97	47.91 3.02 -1.05	50.58 2.97 -1.85	52.78 3.14 -1.36	75.71 3.35 -2.49	74.72 2.92 -2.17	75.99 2.69 -2.51	60.97 2.19 -1.28	50.82 1.73 -1.12	45.82 1.65 -0.81	42.40 1.33 -0.65
N.QUEENS_27_KV_LOAD 356247	34.70 1.83 -0.23	32.48 1.51 -0.13	30.26 1.19 0.00	28.87 1.11 0.00	30.11 1.13 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	47.80 2.54 -0.67	46.74 2.74 -1.15	44.41 2.84 -1.51	41.72 3.04 -0.68	41.59 3.41 -0.75	44.54 3.27 -0.91	46.54 3.45 -1.07	48.81 3.81 -1.16	51.31 3.52 -2.04	53.64 3.86 -1.50	76.73 4.12 -2.75	75.50 3.48 -2.39	76.67 3.11 -2.76	61.33 2.42 -1.41	50.88 1.68 -1.24	46.17 1.91 -0.89	42.86 1.74 -0.71
N.TROY___115KV_TB1 355778	33.18 0.82 0.28	31.37 0.68 0.16	29.74 0.67 0.00	28.49 0.72 0.00	29.68 0.70 0.00	31.94 0.78 0.17	39.78 1.10 0.73	45.18 1.43 0.83	42.58 1.16 1.43	39.28 1.08 1.87	37.89 0.72 0.84	37.24 0.75 0.93	39.79 0.56 1.13	41.38 0.67 1.32	43.24 0.83 1.43	44.28 1.05 2.52	47.74 1.30 1.85	77.18 1.47 -5.84	77.11 1.53 -5.95	80.14 1.42 -7.93	56.90 1.15 1.75	47.35 0.91 1.53	43.00 0.74 1.10	39.98 0.44 0.88
NARROWS_GT1_1 24228	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT1_2 24229	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT1_3 24230	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT1_4 24231	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT1_5 24232	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71



NARROWS_GT1_6 24233	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT1_7 24234	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT1_8 24235	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_1 24236	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_2 24237	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_3 24238	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_4 24239	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_5 24240	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_6 24241	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_7 24242	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NARROWS_GT2_8 24243	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.90 2.99 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NCATSKLL_69_KV_NC-LINE_REV_LBMP_G 345022	34.38 1.73 0.00	32.51 1.67 0.00	30.43 1.37 0.00	29.21 1.44 0.00	30.29 1.30 0.00	33.11 1.79 0.00	41.81 2.40 0.00	47.40 2.81 0.00	44.95 2.10 0.00	41.66 1.60 0.00	39.07 1.06 0.00	38.36 0.94 0.00	40.80 0.44 0.00	42.69 0.67 0.00	44.84 1.01 0.00	47.26 1.51 0.00	49.97 1.69 0.00	70.09 2.24 2.01	70.40 2.72 1.94	70.87 2.55 2.47	59.86 2.36 0.00	49.89 1.92 0.00	44.88 1.52 0.00	41.51 1.09 0.00
NCHELSEA_115KV_TR2 355582	34.48 1.67 -0.17	32.48 1.54 -0.09	30.38 1.31 0.00	29.10 1.33 0.00	30.29 1.30 0.00	32.96 1.53 -0.10	42.17 2.33 -0.44	47.81 2.72 -0.50	46.37 2.66 -0.86	43.83 2.64 -1.13	41.09 2.58 -0.51	40.72 2.73 -0.56	43.78 2.74 -0.68	45.76 2.94 -0.79	47.90 3.20 -0.86	50.57 3.29 -1.52	52.87 3.48 -1.11	75.90 3.98 -2.05	75.03 3.62 -1.78	76.25 3.40 -2.06	61.37 2.82 -1.06	51.10 2.21 -0.92	46.07 2.04 -0.67	42.64 1.70 -0.53
NEG CAPITAL___MECHNVIL 23645	33.67 1.27 0.25	31.79 1.08 0.14	30.11 1.04 0.00	28.82 1.05 0.00	30.08 1.10 0.00	32.43 1.25 0.15	40.26 1.50 0.64	45.77 1.92 0.73	42.88 1.28 1.26	39.46 1.04 1.64	37.91 0.65 0.74	37.20 0.60 0.82	39.72 0.36 1.00	41.45 0.59 1.16	43.32 0.74 1.26	44.68 1.14 2.22	48.25 1.59 1.63	75.17 2.09 -3.21	75.58 2.58 -3.38	78.09 2.69 -4.61	57.97 2.01 1.54	48.30 1.68 1.35	43.74 1.35 0.97	40.61 0.97 0.78
NEG CENTRAL_HIGH_ACRES 23767	33.10 -0.16 -0.62	31.27 -0.06 -0.49	29.42 0.00 -0.35	27.84 -0.17 -0.24	29.15 -0.17 -0.34	31.76 -0.09 -0.53	39.62 -0.83 -1.04	43.71 -1.20 -0.32	41.77 -1.20 -0.12	38.86 -1.20 0.00	37.13 -0.99 -0.12	36.57 -0.93 -0.08	40.06 -0.48 -0.18	41.98 -0.42 -0.38	43.34 -0.52 -0.03	45.22 -0.64 -0.11	48.04 -0.72 -0.48	68.09 -1.74 0.03	70.55 -1.53 -2.45	73.19 -1.27 -3.67	58.36 -1.32 -2.18	48.37 -1.01 -1.42	42.79 -1.00 -0.41	40.59 -0.57 -0.74



NEG CENTRAL___DRP 24199	35.71 0.98 -2.09	33.60 0.89 -1.86	31.52 0.84 -1.60	29.36 0.72 -0.87	30.97 0.87 -1.12	34.17 1.10 -1.75	43.22 0.99 -2.83	46.73 0.80 -1.35	43.80 0.39 -0.56	40.30 0.20 -0.04	38.61 0.38 -0.23	38.10 0.41 -0.26	41.41 0.69 -0.36	43.49 0.71 -0.75	44.46 0.57 -0.06	46.74 0.78 -0.21	50.10 0.87 -0.95	73.20 0.91 -2.43	76.08 1.25 -5.20	80.00 1.63 -7.58	63.31 0.98 -4.83	52.28 0.86 -3.45	45.45 0.56 -1.52	43.06 0.89 -1.76
NEG CENTRAL___INDECK 23768	35.12 1.83 -0.65	33.21 1.85 -0.51	31.24 1.80 -0.37	29.49 1.47 -0.26	30.90 1.56 -0.36	33.82 1.94 -0.56	41.79 1.30 -1.09	45.81 0.89 -0.34	43.40 0.43 -0.13	40.14 0.08 0.00	38.43 0.30 -0.12	37.77 0.26 -0.08	41.52 0.97 -0.19	43.47 1.05 -0.40	44.74 0.88 -0.03	46.69 0.82 -0.11	49.70 0.92 -0.51	70.93 0.77 -0.30	73.87 1.67 -2.57	76.97 2.33 -3.84	61.22 1.44 -2.28	50.79 1.34 -1.48	44.89 1.08 -0.43	42.92 1.74 -0.77
NEG CENTRAL___SENECA 23627	35.23 1.50 -1.08	33.06 1.36 -0.86	30.99 1.31 -0.61	29.33 1.14 -0.43	30.89 1.30 -0.60	33.92 1.66 -0.93	42.76 1.54 -1.82	46.49 1.34 -0.56	43.79 0.73 -0.21	40.58 0.52 0.00	38.93 0.72 -0.20	38.31 0.75 -0.14	41.81 1.13 -0.32	43.87 1.18 -0.67	44.89 1.01 -0.05	47.22 1.28 -0.19	50.58 1.45 -0.85	73.21 1.61 -1.74	75.95 2.02 -4.30	79.77 2.55 -6.43	62.99 1.67 -3.82	51.84 1.39 -2.48	45.13 1.04 -0.73	43.16 1.45 -1.29
NEG CENTRAL___STATE_STREET 24147	35.30 0.49 -2.16	33.23 0.46 -1.92	31.17 0.44 -1.66	29.00 0.33 -0.90	30.54 0.41 -1.16	33.70 0.56 -1.81	42.77 0.43 -2.93	46.29 0.31 -1.39	43.48 0.04 -0.59	39.98 -0.12 -0.04	38.24 0.00 -0.24	37.74 0.04 -0.27	40.93 0.20 -0.38	43.05 0.25 -0.78	44.07 0.18 -0.06	46.33 0.37 -0.22	49.65 0.39 -0.99	72.66 0.28 -2.52	75.57 0.56 -5.38	79.41 0.78 -7.84	62.96 0.46 -5.00	51.87 0.34 -3.57	45.08 0.13 -1.58	42.56 0.32 -1.82
NEG MILLWOOD___DRP 24198	34.57 1.73 -0.19	32.52 1.57 -0.11	30.41 1.34 0.00	29.07 1.30 0.00	30.29 1.30 0.00	32.97 1.53 -0.11	42.39 2.48 -0.50	48.10 2.94 -0.57	46.78 2.96 -0.98	44.30 2.96 -1.28	41.46 2.89 -0.57	41.17 3.11 -0.64	44.28 3.15 -0.77	46.20 3.28 -0.90	48.36 3.55 -0.98	51.04 3.57 -1.73	53.26 3.72 -1.26	76.59 4.40 -2.33	75.62 3.97 -2.02	76.81 3.68 -2.34	61.69 2.99 -1.20	51.36 2.35 -1.05	46.20 2.08 -0.75	42.76 1.74 -0.60
NEG NORTH_FLCN_SEA 23793	37.39 1.27 -3.47	35.43 1.02 -3.56	33.60 0.87 -3.66	30.03 0.69 -1.57	31.45 0.70 -1.77	34.79 0.66 -2.81	43.62 1.06 -3.14	48.61 1.16 -2.86	45.40 1.24 -1.31	41.58 1.36 -0.16	39.26 1.25 0.00	39.05 1.20 -0.43	41.69 1.33 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.02 -0.73 0.00	47.22 -1.06 0.00	70.78 0.35 -0.56	71.75 0.70 -1.43	73.01 0.85 -1.37	60.28 0.63 -2.14	51.03 0.43 -2.63	47.06 0.87 -2.83	43.39 1.74 -1.24
NEG NORTH_KES_CHATEGAY 23792	39.92 0.52 -6.75	38.15 0.37 -6.93	36.45 0.26 -7.12	31.01 0.19 -3.05	32.58 0.14 -3.45	36.88 0.09 -5.46	45.88 0.35 -6.11	50.51 0.36 -5.56	45.87 0.47 -2.55	40.96 0.60 -0.30	38.50 0.49 0.00	38.67 0.41 -0.83	40.88 0.52 0.00	42.32 0.29 0.00	43.97 0.13 0.00	45.11 -0.64 0.00	47.61 -0.68 0.00	71.59 0.63 -1.10	73.31 0.91 -2.78	74.51 1.06 -2.66	62.53 0.86 -4.17	53.75 0.67 -5.11	49.60 0.74 -5.50	43.92 1.09 -2.42
NEG NORTH___ALICE_FALLS 23915	37.98 1.27 -4.06	36.04 1.02 -4.17	34.22 0.87 -4.28	30.32 0.72 -1.84	31.76 0.70 -2.08	35.30 0.69 -3.29	44.23 1.14 -3.68	49.18 1.25 -3.35	45.67 1.29 -1.53	41.64 1.40 -0.18	39.22 1.22 0.00	39.12 1.20 -0.50	41.65 1.29 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.29 -0.46 0.00	47.70 -0.58 0.00	71.64 1.12 -0.66	72.76 1.46 -1.67	74.02 1.63 -1.60	61.33 1.32 -2.51	52.00 0.96 -3.08	47.85 1.17 -3.31	43.69 1.82 -1.45
NEG NORTH___LWR_SARANAC 23913	37.98 1.27 -4.06	36.04 1.02 -4.17	34.22 0.87 -4.28	30.32 0.72 -1.84	31.76 0.70 -2.08	35.30 0.69 -3.29	44.23 1.14 -3.68	49.18 1.25 -3.35	45.67 1.29 -1.53	41.64 1.40 -0.18	39.22 1.22 0.00	39.12 1.20 -0.50	41.65 1.29 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.29 -0.46 0.00	47.70 -0.58 0.00	71.64 1.12 -0.66	72.76 1.46 -1.67	74.02 1.63 -1.60	61.33 1.32 -2.51	52.00 0.96 -3.08	47.85 1.17 -3.31	43.69 1.82 -1.45
NEG NORTH___PLATTSBURG 23628	37.98 1.27 -4.06	36.03 1.02 -4.17	34.22 0.87 -4.28	30.32 0.72 -1.84	31.75 0.69 -2.08	35.30 0.69 -3.29	44.23 1.14 -3.68	49.18 1.25 -3.35	45.67 1.28 -1.53	41.64 1.40 -0.18	39.22 1.22 0.00	39.12 1.20 -0.50	41.69 1.33 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.29 -0.46 0.00	47.71 -0.58 0.00	71.64 1.11 -0.66	72.77 1.46 -1.67	74.02 1.63 -1.60	61.27 1.26 -2.51	52.00 0.96 -3.08	47.85 1.17 -3.31	43.69 1.82 -1.45
NEG WEST_LEA_LOCKPORT 23791	33.90 0.69 -0.56	32.15 0.86 -0.45	29.97 0.58 -0.32	28.40 0.42 -0.22	29.79 0.49 -0.31	32.53 0.72 -0.49	39.29 -1.06 -0.95	42.38 -2.50 -0.29	39.92 -3.04 -0.11	37.46 -2.60 0.00	36.55 -1.56 -0.11	36.04 -1.46 -0.07	40.00 -0.52 -0.17	41.78 -0.59 -0.35	42.90 -0.96 -0.03	44.48 -1.37 -0.10	46.69 -2.03 0.08	64.68 -5.10 -2.24	66.92 -4.94 -3.35	69.61 -4.53 -1.99	55.35 -4.14 -1.29	46.52 -2.73 -0.38	41.32 -2.43 -0.67	40.80 -0.28 -0.67
NEG WEST___LANCASTER 23811	33.95 0.72 -0.59	32.02 0.71 -0.46	29.92 0.52 -0.33	28.33 0.33 -0.23	29.80 0.49 -0.32	32.61 0.78 -0.50	39.64 -0.75 -0.98	42.97 -1.92 -0.30	40.39 -2.57 -0.11	37.94 -2.12 0.00	36.97 -1.14 -0.11	36.45 -1.05 -0.08	40.33 -0.20 -0.17	42.09 -0.29 -0.36	43.20 -0.66 -0.03	44.94 -0.92 -0.10	47.10 -1.64 -0.46	65.39 -4.54 -0.07	67.43 -4.53 -2.32	70.16 -4.11 -3.47	55.83 -3.74 -2.06	46.86 -2.45 -1.34	41.68 -2.08 -0.39	40.83 -0.28 -0.70
NEG_PENN_ALLEGHNY 23528	34.10 0.75 -0.71	32.11 0.71 -0.56	30.22 0.75 -0.40	28.65 0.61 -0.28	30.07 0.69 -0.39	32.71 0.78 -0.61	41.18 0.59 -1.18	45.40 0.45 -0.36	43.29 0.30 -0.14	40.34 0.28 0.00	38.55 0.42 -0.13	37.97 0.45 -0.09	41.25 0.69 -0.21	43.17 0.71 -0.43	44.53 0.66 -0.03	46.56 0.69 -0.12	49.37 0.53 -0.55	70.91 0.00 -1.05	72.50 0.07 -2.80	75.26 0.28 -4.18	60.16 0.17 -2.49	49.92 0.34 -1.61	44.10 0.26 -0.47	41.78 0.52 -0.84
NEG___GEN_MONROE 24207	34.02 0.82 -0.55	32.27 0.99 -0.44	30.11 0.73 -0.31	28.57 0.58 -0.22	29.98 0.70 -0.31	32.74 0.94 -0.48	40.34 0.00 -0.93	44.29 -0.58 -0.29	42.06 -0.90 -0.11	39.10 -0.96 0.00	37.65 -0.46 -0.10	37.09 -0.41 -0.07	40.80 0.28 -0.16	42.70 0.34 -0.34	43.99 0.13 -0.03	45.89 0.05 -0.10	48.62 -0.10 -0.43	68.58 -1.05 0.24	70.99 -0.84 -2.19	73.65 -0.42 -3.28	58.70 -0.75 -1.95	48.85 -0.38 -1.27	43.39 -0.35 -0.37	41.60 0.53 -0.66
NEPA___ENERGY 23901	34.44 1.21 -0.59	32.48 1.17 -0.47	30.36 0.96 -0.33	28.75 0.75 -0.23	30.23 0.93 -0.32	33.08 1.25 -0.51	40.20 -0.20 -0.99	43.87 -1.03 -0.30	41.16 -1.80 -0.11	38.66 -1.40 0.00	37.73 -0.38 -0.11	37.20 -0.30 -0.08	41.10 0.56 -0.17	42.89 0.50 -0.36	43.99 0.13 -0.03	45.81 -0.05 -0.10	48.06 -0.68 -0.46	66.66 -3.28 -0.08	68.69 -3.27 -2.33	71.44 -2.83 -3.48	56.87 -2.70 -2.07	47.87 -1.44 -1.34	42.46 -1.30 -0.39	41.36 0.24 -0.70



NEVERSINK___HYD 23608	34.41 1.63 -0.13	32.46 1.54 -0.07	30.38 1.31 0.00	29.10 1.33 0.00	30.29 1.31 0.00	32.93 1.53 -0.08	42.06 2.32 -0.33	47.64 2.68 -0.38	45.85 2.36 -0.65	43.11 2.20 -0.85	40.51 2.13 -0.38	40.10 2.25 -0.42	43.13 2.26 -0.51	45.14 2.52 -0.60	47.29 2.81 -0.65	49.91 3.02 -1.15	52.36 3.24 -0.84	75.32 3.91 -1.54	74.66 3.69 -1.34	75.88 3.54 -1.55	61.28 2.99 -0.79	51.06 2.40 -0.69	45.99 2.12 -0.50	42.51 1.70 -0.40
NEWKRMKL_115KV_TB1 55635	32.64 0.16 0.17	30.84 0.09 0.09	29.24 0.17 0.00	28.04 0.28 0.00	29.19 0.20 0.00	31.44 0.22 0.10	39.25 0.28 0.44	44.62 0.54 0.50	42.38 0.39 0.86	39.30 0.36 1.12	37.61 0.11 0.50	37.01 0.15 0.56	39.47 -0.20 0.68	41.10 -0.13 0.79	42.97 0.00 0.86	44.37 0.14 1.52	47.36 0.19 1.11	63.44 -0.28 6.15	63.69 -0.21 5.73	63.35 -0.35 7.09	56.16 -0.29 1.05	46.76 -0.29 0.92	42.44 -0.26 0.66	39.44 -0.44 0.53
NEWTON___FALLS_HYD 23847	64.49 0.52 -31.32	63.46 0.52 -32.09	62.37 0.47 -32.84	42.29 0.39 -14.14	45.46 0.43 -16.04	57.30 0.60 -25.38	69.01 0.91 -28.69	71.27 0.98 -25.70	55.33 0.73 -11.75	41.80 0.36 -1.38	38.31 0.23 -0.08	41.42 0.15 -3.85	40.72 0.24 -0.12	42.23 -0.04 -0.25	43.77 -0.09 -0.02	45.82 0.00 -0.07	48.60 0.00 -0.32	76.71 1.05 -5.80	85.73 1.74 -14.36	87.39 1.98 -14.61	79.70 1.67 -20.54	73.72 1.39 -24.36	69.99 1.17 -25.45	52.98 1.01 -11.56
NGRID_A1_DSASP 323792	33.90 0.69 -0.56	32.18 0.90 -0.45	30.40 1.02 -0.32	28.62 0.64 -0.22	29.81 0.52 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	42.02 -2.85 -0.29	40.17 -2.78 -0.11	37.82 -2.24 0.00	36.55 -1.56 -0.11	36.00 -1.50 -0.07	39.96 -0.57 -0.17	41.78 -0.59 -0.35	42.94 -0.92 -0.03	44.16 -1.69 -0.10	46.31 -2.41 -0.44	64.13 -5.66 0.08	66.35 -5.50 -2.23	68.60 -5.52 -3.33	54.93 -4.54 -1.98	46.18 -3.07 -1.28	41.18 -2.56 -0.38	40.72 -0.36 -0.67
NGRID_A2_DSASP 323793	33.90 0.69 -0.56	32.18 0.90 -0.45	30.40 1.02 -0.32	28.62 0.64 -0.22	29.81 0.52 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	42.02 -2.85 -0.29	40.17 -2.78 -0.11	37.82 -2.24 0.00	36.55 -1.56 -0.11	36.00 -1.50 -0.07	39.96 -0.57 -0.17	41.78 -0.59 -0.35	42.94 -0.92 -0.03	44.16 -1.69 -0.10	46.31 -2.41 -0.44	64.13 -5.66 0.08	66.35 -5.50 -2.23	68.60 -5.52 -3.33	54.93 -4.54 -1.98	46.18 -3.07 -1.28	41.18 -2.56 -0.38	40.72 -0.36 -0.67
NGRID_A4_DSASP 323807	33.90 0.69 -0.56	32.18 0.90 -0.45	30.40 1.02 -0.32	28.62 0.64 -0.22	29.81 0.52 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	42.02 -2.78 -0.29	40.17 -2.78 -0.11	37.82 -2.24 0.00	36.55 -1.56 -0.11	36.00 -1.50 -0.07	39.96 -0.57 -0.17	41.78 -0.59 -0.35	42.94 -0.92 -0.03	44.16 -1.69 -0.10	46.31 -2.41 -0.44	64.13 -5.66 0.08	66.35 -5.50 -2.23	68.60 -5.52 -3.33	54.93 -4.54 -1.98	46.18 -3.07 -1.28	41.18 -2.56 -0.38	40.72 -0.36 -0.67
NIAGARA_115E_LBMP 323715	33.41 0.20 -0.56	31.69 0.40 -0.45	29.94 0.55 -0.32	28.24 0.25 -0.22	29.41 0.12 -0.31	32.06 0.25 -0.49	38.70 -1.65 -0.95	42.11 -2.76 -0.29	40.26 -2.70 -0.11	37.86 -2.20 0.00	36.55 -1.56 -0.11	36.04 -1.46 -0.07	40.00 -0.53 -0.17	41.82 -0.55 -0.35	42.98 -0.88 -0.03	44.20 -1.65 -0.10	46.41 -2.32 -0.44	64.13 -5.66 0.07	66.36 -5.50 -2.24	68.83 -5.31 -3.34	54.94 -4.54 -1.99	46.24 -3.02 -1.29	41.23 -2.52 -0.38	40.20 -0.89 -0.67
NIAGARA_115W_LBMP 323714	33.86 0.65 -0.56	32.15 0.86 -0.44	30.37 0.99 -0.32	28.60 0.61 -0.22	29.78 0.49 -0.31	32.47 0.66 -0.48	38.73 -1.62 -0.94	41.93 -2.94 -0.29	40.09 -2.87 -0.11	37.74 -2.32 0.00	36.44 -1.67 -0.11	35.93 -1.57 -0.07	39.88 -0.65 -0.17	41.65 -0.71 -0.34	42.85 -1.01 -0.03	44.02 -1.83 -0.10	46.21 -2.51 -0.44	63.91 -5.87 0.08	66.21 -5.64 -2.22	68.45 -5.67 -3.32	54.82 -4.66 -1.97	46.04 -3.21 -1.28	41.05 -2.69 -0.38	40.68 -0.40 -0.67
NIAGARA_230_LBMP 323716	33.70 0.49 -0.56	31.93 0.65 -0.44	30.17 0.79 -0.32	28.43 0.44 -0.22	29.61 0.32 -0.31	32.30 0.50 -0.48	39.04 -1.30 -0.93	42.51 -2.36 -0.29	40.64 -2.31 -0.11	38.26 -1.80 0.00	36.93 -1.18 -0.10	36.41 -1.09 -0.07	40.36 -0.16 -0.17	42.20 -0.17 -0.34	43.38 -0.48 -0.03	44.61 -1.23 -0.10	46.83 -1.88 -0.43	64.87 -4.89 0.10	67.10 -4.74 -2.21	69.56 -4.53 -3.30	55.61 -3.85 -1.96	46.70 -2.54 -1.27	41.66 -2.08 -0.37	40.59 -0.48 -0.66
NIAGARA___115KV_198_GIBSON 55903	33.86 0.65 -0.56	32.15 0.86 -0.44	29.97 0.58 -0.32	28.40 0.42 -0.22	29.73 0.43 -0.31	32.46 0.66 -0.48	38.69 -1.66 -0.94	41.71 -3.17 -0.29	39.32 -3.64 -0.11	36.98 -3.08 0.00	36.09 -2.01 -0.11	35.63 -1.87 -0.07	39.51 -1.01 -0.17	41.23 -1.13 -0.34	42.37 -1.49 -0.03	43.83 -2.01 -0.10	46.02 -2.70 -0.44	63.77 -6.01 0.08	65.93 -5.92 -2.22	68.38 -5.73 -3.32	54.59 -4.89 -1.97	45.89 -3.36 -1.28	40.71 -3.04 -0.38	40.64 -0.44 -0.67
NIAGARA____ 23760	33.70 0.49 -0.56	31.94 0.65 -0.45	30.17 0.79 -0.32	28.43 0.44 -0.22	29.61 0.32 -0.31	32.31 0.50 -0.49	39.05 -1.30 -0.94	42.51 -2.36 -0.29	40.64 -2.31 -0.11	38.26 -1.80 0.00	36.93 -1.18 -0.11	36.41 -1.09 -0.07	40.36 -0.16 -0.17	42.20 -0.17 -0.35	43.38 -0.48 -0.03	44.61 -1.23 -0.10	46.84 -1.88 -0.44	64.88 -4.89 0.09	67.11 -4.74 -2.22	69.58 -4.53 -3.32	55.62 -3.85 -1.97	46.71 -2.54 -1.28	41.66 -2.08 -0.38	40.60 -0.48 -0.67
NINE_MILE_1 23575	24.56 -0.65 7.44	24.36 -0.59 5.90	24.33 -0.52 4.21	24.28 -0.56 2.93	24.30 -0.58 4.10	24.34 -0.60 6.39	26.03 -0.90 12.47	39.63 -1.11 3.85	40.29 -1.11 1.45	38.98 -1.08 0.00	35.59 -1.02 1.39	35.49 -0.97 0.96	37.18 -0.97 2.21	36.44 -1.01 4.58	42.43 -1.05 0.35	43.37 -1.10 1.28	41.32 -1.16 5.80	36.78 -1.96 31.12	38.25 -1.88 29.50	24.94 -1.77 44.09	29.81 -1.50 26.19	29.71 -1.25 17.01	37.22 -1.17 4.98	30.56 -1.01 8.84
NINE_MILE_2 23744	24.43 -0.65 7.56	24.26 -0.59 6.00	24.26 -0.52 4.28	24.23 -0.56 2.98	24.23 -0.58 4.17	24.23 -0.60 6.50	25.82 -0.90 12.68	39.56 -1.11 3.91	40.26 -1.11 1.47	38.98 -1.08 0.00	35.56 -1.02 1.42	35.47 -0.97 0.98	37.14 -0.97 2.25	36.36 -1.01 4.65	42.42 -1.05 0.36	43.35 -1.10 1.30	41.22 -1.16 5.90	36.29 -1.96 31.61	37.75 -1.88 30.00	24.18 -1.77 44.84	29.36 -1.50 26.64	29.42 -1.25 17.30	37.13 -1.17 5.07	30.41 -1.01 8.99
NM_CAPITAL___DRP 24208	32.69 0.23 0.19	30.92 0.19 0.10	29.30 0.23 0.00	28.07 0.31 0.00	29.24 0.26 0.00	31.50 0.28 0.11	39.32 0.39 0.49	44.66 0.62 0.56	42.45 0.56 0.95	39.33 0.52 1.25	37.71 0.27 0.56	37.10 0.30 0.62	39.60 0.00 0.76	41.23 0.08 0.88	43.05 0.18 0.96	44.39 0.32 1.69	47.43 0.39 1.23	62.40 0.00 7.47	62.58 -0.07 6.98	61.92 -0.21 8.66	56.22 -0.12 1.17	46.80 -0.14 1.02	42.46 -0.17 0.74	39.46 -0.36 0.59
NM_CENTRAL___DRP 24181	35.12 0.10 -2.37	33.14 0.09 -2.20	31.17 0.09 -2.02	28.83 0.06 -1.01	30.32 0.09 -1.25	33.39 0.09 -1.97	42.20 -0.12 -2.91	45.97 -0.27 -1.65	43.13 -0.43 -0.71	39.68 -0.44 -0.06	37.85 -0.34 -0.19	37.42 -0.30 -0.30	40.45 -0.20 -0.29	42.42 -0.21 -0.61	43.62 -0.26 -0.05	45.78 -0.14 -0.17	48.86 -0.19 -0.77	70.85 -0.63 -1.61	73.57 -0.56 -4.50	76.85 -0.35 -6.42	61.44 -0.40 -4.34	50.94 -0.34 -3.31	44.72 -0.43 -1.79	41.80 -0.28 -1.67



NM_FRONTIER___DRP 24179	33.86 0.65 -0.56	32.15 0.86 -0.44	29.97 0.58 -0.32	28.40 0.42 -0.22	29.73 0.43 -0.31	32.46 0.66 -0.48	38.69 -1.66 -0.94	41.71 -3.17 -0.29	39.32 -3.64 -0.11	36.98 -3.08 0.00	36.09 -2.01 -0.11	35.63 -1.87 -0.07	39.51 -1.01 -0.17	41.23 -1.13 -0.34	42.37 -1.49 -0.03	43.83 -2.01 -0.10	46.02 -2.70 -0.44	63.77 -6.01 0.08	65.93 -5.92 -2.22	68.38 -5.73 -3.32	54.59 -4.89 -1.97	45.89 -3.36 -1.28	40.71 -3.04 -0.38	40.64 -0.44 -0.67
NM_ST_REGIS___HYD 24053	72.78 0.33 -39.80	71.98 0.28 -40.86	71.20 0.23 -41.90	45.92 0.17 -17.99	49.56 0.20 -20.37	63.78 0.22 -32.24	76.10 0.47 -36.22	77.88 0.54 -32.76	58.40 0.56 -14.99	42.35 0.52 -1.77	38.46 0.42 -0.04	42.62 0.30 -4.89	40.86 0.44 -0.06	42.44 0.29 -0.12	44.06 0.22 -0.01	45.74 -0.05 -0.03	48.44 0.00 -0.16	78.22 1.54 -6.82	88.68 1.95 -17.10	89.64 2.05 -16.79	84.39 1.73 -25.16	79.83 1.39 -30.47	76.98 1.21 -32.39	56.09 1.25 -14.42
NORTHPORT___1 23551	34.80 1.93 -0.23	32.42 1.45 -0.13	30.14 1.08 0.00	28.71 0.94 0.00	30.08 1.10 0.00	32.87 1.41 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.92 1.93 -1.14	44.33 2.76 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.14 2.87 -0.91	45.43 2.35 -1.06	47.09 2.10 -1.15	45.12 1.83 2.47	51.64 1.88 -1.48	65.17 1.75 6.44	73.18 1.18 -2.37	61.54 0.85 10.11	47.43 0.63 10.70	44.92 0.34 3.38	44.36 0.52 -0.47	42.30 1.17 -0.71
NORTHPORT___2 23552	34.80 1.93 -0.23	32.42 1.45 -0.13	30.14 1.08 0.00	28.71 0.94 0.00	30.08 1.10 0.00	32.87 1.41 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.92 1.93 -1.14	44.33 2.76 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.14 2.87 -0.91	45.43 2.35 -1.06	47.09 2.10 -1.15	45.12 1.83 2.47	51.64 1.88 -1.48	65.17 1.75 6.44	73.18 1.18 -2.37	61.54 0.85 10.11	47.43 0.63 10.70	44.92 0.34 3.38	44.36 0.52 -0.47	42.30 1.17 -0.71
NORTHPORT___3 23553	34.25 1.37 -0.23	31.93 0.96 -0.13	29.65 0.58 0.00	28.29 0.53 0.00	29.62 0.64 0.00	32.37 0.91 -0.13	41.53 1.54 -0.59	45.82 0.58 -0.66	44.98 0.99 -1.14	43.73 2.16 -1.51	41.27 2.59 -0.68	40.99 2.81 -0.75	43.20 1.94 -0.91	44.63 1.56 -1.05	46.51 1.53 -1.14	44.63 1.33 2.45	51.15 1.40 -1.47	64.58 1.11 6.40	72.54 0.55 -2.36	60.96 0.21 10.04	46.92 0.06 10.64	44.41 -0.19 3.37	43.66 -0.17 -0.47	41.65 0.52 -0.71
NORTHPORT___4 23650	34.25 1.37 -0.23	31.93 0.96 -0.13	29.65 0.58 0.00	28.29 0.53 0.00	29.62 0.64 0.00	32.37 0.91 -0.13	41.53 1.54 -0.59	45.82 0.58 -0.66	44.98 0.99 -1.14	43.73 2.16 -1.51	41.27 2.59 -0.68	40.99 2.81 -0.75	43.20 1.94 -0.91	44.63 1.56 -1.05	46.51 1.53 -1.14	44.63 1.33 2.45	51.15 1.40 -1.47	64.58 1.11 6.40	72.54 0.55 -2.36	60.96 0.21 10.04	46.92 0.06 10.64	44.41 -0.19 3.37	43.66 -0.17 -0.47	41.65 0.52 -0.71
NORTHPORT___IC 23718	34.80 1.93 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.76 1.00 0.00	30.08 1.10 0.00	32.87 1.41 -0.13	42.17 2.17 -0.59	46.99 1.74 -0.66	46.06 2.06 -1.15	44.21 2.64 -1.51	41.91 3.23 -0.68	41.85 3.67 -0.75	44.66 3.39 -0.91	46.15 3.07 -1.06	47.75 2.76 -1.15	45.16 1.88 2.47	51.89 2.12 -1.48	65.17 1.75 6.44	73.25 1.25 -2.37	61.60 0.92 10.11	47.49 0.69 10.70	44.97 0.38 3.38	44.53 0.69 -0.47	42.46 1.33 -0.71
NORTH___COUNTRY_ESR 323785	39.92 0.46 -6.82	38.13 0.28 -7.01	36.47 0.20 -7.19	30.96 0.11 -3.08	32.56 0.09 -3.49	36.88 0.03 -5.52	45.82 0.24 -6.18	50.48 0.27 -5.62	45.81 0.38 -2.57	40.89 0.52 -0.31	38.46 0.46 0.00	38.64 0.37 -0.84	40.80 0.44 0.00	42.23 0.21 0.00	43.88 0.04 0.00	45.07 -0.69 0.00	47.46 -0.82 0.00	71.47 0.49 -1.11	73.13 0.70 -2.81	74.26 0.78 -2.69	62.35 0.63 -4.21	53.61 0.48 -5.17	49.53 0.61 -5.55	43.82 0.97 -2.44
NPX_GEN_1385_PROXY 323591	34.80 1.93 -0.23	32.42 1.45 -0.13	30.14 1.08 0.00	28.71 0.94 0.00	30.08 1.10 0.00	32.87 1.41 -0.13	42.16 2.17 -0.59	46.90 1.65 -0.66	45.92 1.93 -1.14	44.33 2.76 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.14 2.87 -0.91	45.43 2.35 -1.06	47.09 2.10 -1.15	45.12 1.83 2.47	51.64 1.88 -1.48	65.17 1.75 6.44	73.18 1.18 -2.37	61.54 0.85 10.11	47.43 0.63 10.70	44.92 0.34 3.38	45.40 0.52 -1.51	41.26 1.17 0.32
NPX_GEN_CSC 323557	34.18 1.53 0.00	31.89 1.05 0.00	29.74 0.67 0.00	28.32 0.56 0.00	29.68 0.69 0.00	32.33 1.00 0.00	41.10 1.69 0.00	45.69 1.12 0.01	44.21 1.37 0.01	42.26 2.20 0.00	40.77 2.77 0.00	40.50 3.07 0.00	42.86 2.50 0.00	44.20 2.18 0.00	45.93 2.10 0.01	43.24 1.92 4.44	50.30 2.03 0.01	62.70 1.89 9.05	71.00 1.39 0.02	59.25 1.13 12.67	46.37 0.80 11.93	43.85 0.43 4.55	44.25 0.26 -0.62	40.19 0.81 1.04
NSINS_S_GLNS_FALLS 23858	33.72 1.31 0.23	31.76 1.05 0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.11 1.13 0.00	32.47 1.28 0.14	40.19 1.38 0.60	45.69 1.78 0.68	42.53 0.86 1.17	38.97 0.44 1.53	37.20 -0.11 0.69	36.43 -0.22 0.77	38.86 -0.56 0.93	40.69 -0.25 1.08	42.57 -0.09 1.18	44.09 0.41 2.07	47.87 1.11 1.52	74.06 1.68 -2.52	74.82 2.51 -2.69	77.33 2.83 -3.71	58.07 2.01 1.44	48.39 1.68 1.26	43.76 1.30 0.91	40.50 0.81 0.73
NUCOR_STEEL___DRP 24197	35.34 0.49 -2.21	33.27 0.46 -1.97	31.20 0.44 -1.70	29.05 0.36 -0.92	30.60 0.43 -1.18	33.71 0.53 -1.85	42.80 0.39 -2.99	46.32 0.31 -1.42	43.49 0.04 -0.60	40.02 -0.08 -0.04	38.24 0.00 -0.24	37.78 0.07 -0.28	40.94 0.20 -0.38	43.07 0.25 -0.79	44.11 0.22 -0.06	46.34 0.37 -0.22	49.67 0.39 -1.01	72.71 0.28 -2.57	75.60 0.49 -5.49	79.57 0.78 -8.00	63.07 0.46 -5.11	51.95 0.34 -3.64	45.15 0.17 -1.61	42.60 0.32 -1.86
NUMBER_THREE_WT_PWR 323818	47.49 0.88 -13.96	45.99 0.92 -14.23	44.42 0.87 -14.48	34.77 0.72 -6.28	36.93 0.78 -7.16	43.68 1.03 -11.32	53.90 1.46 -13.03	57.54 1.60 -11.35	49.14 1.11 -5.18	41.18 0.52 -0.60	38.48 0.38 -0.09	39.52 0.37 -1.72	40.87 0.36 -0.15	42.20 -0.13 -0.31	43.64 -0.22 -0.02	45.84 0.00 -0.09	48.62 -0.05 -0.39	73.62 0.63 -3.13	78.62 1.46 -7.52	80.90 1.84 -8.27	69.13 1.55 -10.07	60.65 1.34 -11.34	55.75 1.08 -11.30	46.72 0.89 -5.41
NYISO_LBMP_REFERENCE 24008	32.65 0.00 0.00	30.84 0.00 0.00	29.07 0.00 0.00	27.76 0.00 0.00	28.98 0.00 0.00	31.32 0.00 0.00	39.41 0.00 0.00	44.59 0.00 0.00	42.85 0.00 0.00	40.06 0.00 0.00	38.00 0.00 0.00	37.43 0.00 0.00	40.36 0.00 0.00	42.02 0.00 0.00	43.83 0.00 0.00	45.75 0.00 0.00	48.28 0.00 0.00	69.86 0.00 0.00	69.63 0.00 0.00	70.79 0.00 0.00	57.50 0.00 0.00	47.97 0.00 0.00	43.37 0.00 0.00	40.41 0.00 0.00
NYPA_BRENTWD____GT 24164	35.06 2.19 -0.23	32.63 1.66 -0.13	30.32 1.25 0.00	28.88 1.11 0.00	30.26 1.27 0.00	33.06 1.60 -0.13	42.44 2.44 -0.59	47.26 2.01 -0.66	46.22 2.23 -1.14	44.61 3.04 -1.51	42.21 3.53 -0.68	42.00 3.82 -0.75	44.58 3.31 -0.91	46.02 2.94 -1.06	47.79 2.81 -1.15	46.04 2.61 2.32	52.37 2.61 -1.48	66.53 2.80 6.13	74.23 2.23 -2.37	63.09 1.98 9.68	48.87 1.67 10.30	45.89 1.15 3.23	44.89 1.04 -0.48	42.70 1.57 -0.71



NYPA_GOWANUS____GT5 24156	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.85 2.93 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NYPA_GOWANUS____GT6 24157	34.84 1.96 -0.23	32.64 1.66 -0.13	30.41 1.34 -0.01	28.90 1.14 0.00	30.26 1.27 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.25 2.99 -0.67	47.14 3.13 -1.16	44.78 3.21 -1.52	42.07 3.38 -0.69	41.82 3.63 -0.76	44.91 3.63 -0.92	46.88 3.78 -1.08	48.86 3.86 -1.17	51.73 3.94 -2.05	53.75 3.96 -1.51	77.44 4.82 -2.75	76.19 4.18 -2.39	77.38 3.82 -2.77	61.85 2.93 -1.41	51.42 2.21 -1.24	46.43 2.17 -0.90	42.99 1.86 -0.71
NYPA_HARLEM__RVR__GT1 24160	34.64 1.76 -0.23	32.45 1.48 -0.13	30.17 1.10 0.00	28.79 1.03 0.00	30.08 1.10 0.00	32.65 1.19 -0.13	41.96 1.97 -0.58	47.66 2.41 -0.66	46.56 2.57 -1.14	44.29 2.73 -1.50	41.60 2.93 -0.67	41.39 3.22 -0.75	44.37 3.11 -0.91	46.45 3.36 -1.06	48.58 3.60 -1.15	51.21 3.43 -2.03	53.34 3.57 -1.49	76.44 3.84 -2.74	75.28 3.27 -2.38	76.45 2.90 -2.75	61.09 2.18 -1.41	50.73 1.53 -1.23	45.99 1.74 -0.89	42.75 1.62 -0.71
NYPA_HARLEM__RVR__GT2 24161	34.64 1.76 -0.23	32.45 1.48 -0.13	30.17 1.10 0.00	28.79 1.03 0.00	30.08 1.10 0.00	32.65 1.19 -0.13	41.96 1.97 -0.58	47.66 2.41 -0.66	46.56 2.57 -1.14	44.29 2.73 -1.50	41.60 2.93 -0.67	41.39 3.22 -0.75	44.37 3.11 -0.91	46.45 3.36 -1.06	48.58 3.60 -1.15	51.21 3.43 -2.03	53.34 3.57 -1.49	76.44 3.84 -2.74	75.28 3.27 -2.38	76.45 2.90 -2.75	61.09 2.18 -1.41	50.73 1.53 -1.23	45.99 1.74 -0.89	42.75 1.62 -0.71
NYPA_KENT____GT 24152	34.74 1.86 -0.23	32.55 1.57 -0.13	30.32 1.25 0.00	28.90 1.14 0.00	30.23 1.25 0.00	32.90 1.44 -0.13	42.36 2.36 -0.59	48.11 2.86 -0.67	47.00 3.00 -1.16	44.70 3.13 -1.51	41.99 3.30 -0.68	41.74 3.56 -0.76	44.78 3.51 -0.92	46.75 3.65 -1.07	48.77 3.77 -1.17	51.59 3.80 -2.04	53.65 3.86 -1.50	77.23 4.61 -2.75	75.98 3.97 -2.39	77.17 3.61 -2.76	61.67 2.76 -1.41	51.27 2.06 -1.24	46.30 2.04 -0.90	42.90 1.78 -0.71
NYPA_POUCH1____GT 24155	34.87 1.99 -0.23	32.70 1.73 -0.13	30.47 1.40 -0.01	28.82 1.05 0.00	19.95 1.25 10.28	23.63 1.47 9.17	25.73 2.40 16.09	26.11 2.94 21.42	26.18 3.09 19.76	26.15 3.21 17.11	26.83 3.38 14.55	26.82 3.63 14.23	27.11 3.59 16.83	33.04 3.74 12.72	35.24 3.86 12.46	37.53 3.94 12.16	41.16 3.91 11.03	43.49 4.82 31.20	44.71 4.18 29.09	41.97 3.82 32.65	37.37 2.99 23.12	36.14 2.21 14.04	30.31 2.17 15.22	26.87 1.86 15.41
NYPA_VERNON____GT2 24162	34.64 1.76 -0.23	32.45 1.48 -0.13	30.23 1.16 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.28 -0.59	48.02 2.77 -0.67	46.92 2.92 -1.15	44.58 3.01 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.76	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.72 -1.16	51.45 3.66 -2.04	53.59 3.81 -1.50	77.02 4.40 -2.75	75.77 3.76 -2.39	77.02 3.47 -2.76	61.56 2.65 -1.41	51.12 1.92 -1.24	46.17 1.91 -0.89	42.78 1.66 -0.71
NYPA_VERNON____GT3 24163	34.64 1.76 -0.23	32.45 1.48 -0.13	30.23 1.16 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.28 -0.59	48.02 2.77 -0.67	46.92 2.92 -1.15	44.58 3.01 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.76	44.66 3.39 -0.91	46.62 3.53 -1.07	48.72 3.72 -1.16	51.45 3.66 -2.04	53.59 3.81 -1.50	77.02 4.40 -2.75	75.77 3.76 -2.39	77.02 3.47 -2.76	61.56 2.65 -1.41	51.12 1.92 -1.24	46.17 1.91 -0.89	42.78 1.66 -0.71
NYPA____ASTORIA_CC1 323568	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.80 1.35 -0.13	42.20 2.21 -0.59	47.93 2.68 -0.67	46.78 2.78 -1.15	44.49 2.92 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.59 3.60 -1.16	51.36 3.57 -2.04	53.45 3.67 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.39 2.47 -1.41	50.98 1.78 -1.24	46.08 1.82 -0.89	42.75 1.62 -0.71
NYPA____ASTORIA_CC2 323569	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.80 1.35 -0.13	42.20 2.21 -0.59	47.93 2.68 -0.67	46.78 2.78 -1.15	44.49 2.92 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.58 3.31 -0.91	46.54 3.45 -1.07	48.59 3.60 -1.16	51.36 3.57 -2.04	53.45 3.67 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.81 3.26 -2.76	61.39 2.47 -1.41	50.98 1.78 -1.24	46.08 1.82 -0.89	42.75 1.62 -0.71
NYPA____HOLTSVILL 23794	34.67 1.79 -0.23	32.29 1.33 -0.13	30.00 0.93 0.00	28.57 0.81 0.00	29.94 0.96 0.00	32.71 1.25 -0.13	42.01 2.01 -0.59	46.68 1.43 -0.66	45.66 1.67 -1.14	44.05 2.48 -1.51	41.72 3.04 -0.68	41.48 3.29 -0.75	44.05 2.78 -0.91	45.52 2.44 -1.06	47.31 2.32 -1.15	45.50 2.15 2.40	51.98 2.22 -1.48	65.72 2.17 6.31	73.60 1.60 -2.37	62.20 1.34 9.93	48.00 1.04 10.54	45.32 0.67 3.32	44.41 0.56 -0.48	42.26 1.13 -0.71
NYPA____HELLGATE_GT1 24158	34.64 1.76 -0.23	32.45 1.48 -0.13	30.17 1.10 0.00	28.79 1.03 0.00	30.08 1.10 0.00	32.65 1.19 -0.13	41.96 1.97 -0.58	47.66 2.41 -0.66	46.56 2.57 -1.14	44.29 2.73 -1.50	41.60 2.93 -0.67	41.39 3.22 -0.75	44.37 3.11 -0.91	46.45 3.36 -1.06	48.58 3.60 -1.15	51.21 3.43 -2.03	53.34 3.57 -1.49	76.44 3.84 -2.74	75.28 3.27 -2.38	76.45 2.90 -2.75	61.09 2.18 -1.41	50.73 1.53 -1.23	45.99 1.74 -0.89	42.75 1.62 -0.71
NYPA____HELLGATE_GT2 24159	34.64 1.76 -0.23	32.45 1.48 -0.13	30.17 1.10 0.00	28.79 1.03 0.00	30.08 1.10 0.00	32.65 1.19 -0.13	41.96 1.97 -0.58	47.66 2.41 -0.66	46.56 2.57 -1.14	44.29 2.73 -1.50	41.60 2.93 -0.67	41.39 3.22 -0.75	44.37 3.11 -0.91	46.45 3.36 -1.06	48.58 3.60 -1.15	51.21 3.43 -2.03	53.34 3.57 -1.49	76.44 3.84 -2.74	75.28 3.27 -2.38	76.45 2.90 -2.75	61.09 2.18 -1.41	50.73 1.53 -1.23	45.99 1.74 -0.89	42.75 1.62 -0.71
NYS_BARGE____HYD 23848	33.86 0.65 -0.56	32.12 0.83 -0.45	30.35 0.96 -0.32	28.60 0.61 -0.22	29.82 0.52 -0.31	32.53 0.72 -0.48	39.29 -1.06 -0.95	42.74 -2.14 -0.29	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.00 -1.10 -0.11	36.49 -1.01 -0.07	40.48 -0.04 -0.17	42.37 0.00 -0.35	43.56 -0.30 -0.03	44.84 -1.01 -0.10	47.08 -1.64 -0.44	65.16 -4.61 0.09	67.48 -4.38 -2.24	69.96 -4.18 -3.34	55.86 -3.62 -1.98	46.91 -2.35 -1.29	41.84 -1.91 -0.38	40.80 -0.28 -0.67
OAK ORCHARD____HYD 24046	33.75 0.55 -0.55	31.96 0.68 -0.44	30.05 0.67 -0.31	28.42 0.44 -0.22	29.75 0.46 -0.30	32.43 0.63 -0.47	40.18 -0.16 -0.93	44.34 -0.53 -0.29	42.40 -0.56 -0.11	39.50 -0.56 0.00	37.80 -0.31 -0.10	37.24 -0.26 -0.07	40.88 0.36 -0.16	42.83 0.46 -0.34	44.21 0.35 -0.03	46.03 0.18 -0.09	48.81 0.10 -0.43	68.85 -0.77 0.24	71.26 -0.56 -2.19	73.72 -0.35 -3.28	58.93 -0.52 -1.95	48.94 -0.29 -1.26	43.44 -0.30 -0.37	41.32 0.24 -0.66



OAKDALE___35_KV_LOAD 356122	33.93 0.59 -0.70	31.95 0.56 -0.55	30.02 0.55 -0.40	28.48 0.44 -0.28	29.92 0.55 -0.39	32.55 0.63 -0.60	40.94 0.35 -1.17	45.13 0.18 -0.36	42.90 -0.09 -0.14	39.98 -0.08 0.00	38.32 0.19 -0.13	37.74 0.22 -0.09	41.01 0.44 -0.21	42.87 0.42 -0.43	44.22 0.35 -0.03	46.28 0.41 -0.12	49.12 0.29 -0.55	70.47 -0.42 -1.03	72.05 -0.35 -2.77	74.79 -0.14 -4.14	59.79 -0.17 -2.46	49.61 0.05 -1.60	43.84 0.00 -0.47	41.57 0.32 -0.83
OCC_CHEM___DRP 24175	33.89 0.69 -0.56	32.18 0.89 -0.45	30.00 0.61 -0.32	28.43 0.44 -0.22	29.76 0.46 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	41.85 -3.03 -0.29	39.44 -3.51 -0.11	37.10 -2.96 0.00	36.21 -1.90 -0.11	35.74 -1.76 -0.07	39.64 -0.89 -0.17	41.36 -1.01 -0.35	42.50 -1.36 -0.03	43.97 -1.88 -0.10	46.16 -2.56 -0.44	63.98 -5.80 0.08	66.07 -5.78 -2.23	68.53 -5.59 -3.33	54.70 -4.77 -1.98	45.99 -3.26 -1.28	40.79 -2.95 -0.38	40.68 -0.40 -0.67
OH_GEN_PROXY 24063	33.69 0.49 -0.56	31.90 0.62 -0.44	30.14 0.75 -0.31	28.40 0.42 -0.22	29.61 0.32 -0.31	32.27 0.47 -0.48	39.08 -1.26 -0.93	42.60 -2.27 -0.29	40.73 -2.23 -0.11	38.30 -1.76 0.00	36.97 -1.14 -0.10	36.45 -1.05 -0.07	40.36 -0.16 -0.16	42.24 -0.13 -0.34	43.42 -0.44 -0.03	44.66 -1.19 -0.10	46.93 -1.79 -0.43	65.07 -4.68 0.11	67.30 -4.52 -2.20	69.69 -4.39 -3.29	55.77 -3.68 -1.95	46.84 -2.40 -1.27	42.74 -2.04 -1.41	39.51 -0.53 0.38
OLIN_CORP_DRP 24177	33.47 0.26 -0.57	31.78 0.49 -0.45	29.62 0.23 -0.32	28.10 0.11 -0.22	29.44 0.14 -0.31	32.12 0.31 -0.49	38.78 -1.58 -0.95	41.98 -2.90 -0.29	39.57 -3.39 -0.11	37.18 -2.88 0.00	36.28 -1.82 -0.11	35.81 -1.68 -0.07	39.72 -0.81 -0.17	41.45 -0.92 -0.35	42.59 -1.27 -0.03	44.06 -1.78 -0.10	46.31 -2.41 -0.44	64.14 -5.66 0.07	66.30 -5.57 -2.24	68.90 -5.24 -3.35	54.83 -4.66 -1.99	46.19 -3.07 -1.29	40.97 -2.78 -0.38	40.28 -0.81 -0.67
OLIN_CORP_DSASP 323712	33.90 0.69 -0.56	32.18 0.90 -0.45	30.40 1.02 -0.32	28.62 0.64 -0.22	29.81 0.52 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	42.02 -2.85 -0.29	40.17 -2.78 -0.11	37.82 -2.24 0.00	36.55 -1.56 -0.11	36.00 -1.50 -0.07	39.96 -0.57 -0.17	41.78 -0.59 -0.35	42.94 -0.92 -0.03	44.16 -1.69 -0.10	46.31 -2.41 -0.44	64.13 -5.66 0.08	66.35 -5.50 -2.23	68.60 -5.52 -3.33	54.93 -4.54 -1.98	46.18 -3.07 -1.28	41.18 -2.56 -0.38	40.72 -0.36 -0.67
ONEIDA_HERK_LFGE 323681	40.04 0.82 -6.58	38.36 0.83 -6.69	36.64 0.79 -6.79	31.39 0.67 -2.96	33.09 0.72 -3.38	37.61 0.94 -5.34	46.91 1.30 -6.21	51.34 1.43 -5.33	46.30 1.03 -2.43	40.94 0.60 -0.28	38.55 0.49 -0.06	38.69 0.45 -0.81	40.90 0.44 -0.09	42.47 0.25 -0.19	44.11 0.26 -0.01	46.31 0.50 -0.05	49.11 0.58 -0.25	72.59 1.11 -1.61	75.20 1.74 -3.83	77.11 1.98 -4.34	64.09 1.61 -4.98	54.73 1.30 -5.47	49.72 1.04 -5.31	43.92 0.89 -2.62
ONEIDA___115KV_TB4 55905	36.92 0.95 -3.32	35.10 0.96 -3.30	33.23 0.90 -3.26	30.04 0.81 -1.47	31.57 0.87 -1.72	35.14 1.10 -2.71	44.22 1.42 -3.39	48.69 1.52 -2.59	45.17 1.16 -1.16	40.87 0.68 -0.13	38.70 0.61 -0.09	38.44 0.60 -0.41	41.11 0.61 -0.15	42.91 0.59 -0.30	44.47 0.61 -0.02	46.80 0.96 -0.08	49.73 1.06 -0.38	72.85 1.61 -1.38	74.90 2.16 -3.12	77.23 2.41 -4.03	62.88 1.90 -3.48	52.72 1.49 -3.27	47.22 1.21 -2.64	43.06 1.05 -1.60
ONONDAGA_REF_OCCRA 23987	35.06 0.10 -2.32	33.06 0.09 -2.12	31.06 0.09 -1.90	28.77 0.03 -0.98	30.27 0.06 -1.23	33.35 0.09 -1.93	42.28 -0.08 -2.95	45.93 -0.22 -1.57	43.14 -0.39 -0.67	39.67 -0.44 -0.05	37.91 -0.30 -0.21	37.46 -0.26 -0.29	40.48 -0.20 -0.33	42.49 -0.21 -0.68	43.67 -0.22 -0.05	45.80 -0.14 -0.19	49.00 -0.14 -0.86	71.21 -0.56 -1.90	74.10 -0.42 -4.89	77.55 -0.28 -7.04	61.80 -0.35 -4.64	51.13 -0.29 -3.45	44.75 -0.35 -1.73	41.92 -0.24 -1.75
ONONDAGA___COGEN 23986	35.34 0.20 -2.49	33.27 0.19 -2.24	31.20 0.17 -1.95	28.95 0.14 -1.05	30.49 0.17 -1.33	33.66 0.25 -2.09	42.81 0.08 -3.32	46.22 0.00 -1.63	43.32 -0.21 -0.69	39.83 -0.28 -0.05	38.07 -0.19 -0.26	37.63 -0.11 -0.32	40.73 -0.04 -0.41	42.83 -0.04 -0.85	43.81 -0.09 -0.06	46.03 0.05 -0.24	49.36 0.00 -1.08	72.42 -0.21 -2.77	75.42 -0.14 -5.93	79.48 0.07 -8.62	62.99 -0.06 -5.55	51.92 -0.05 -4.00	45.02 -0.17 -1.83	42.41 -0.04 -2.04
ONTARIO___LFGE 23819	35.23 1.50 -1.08	33.06 1.36 -0.86	31.11 1.42 -0.61	29.41 1.22 -0.43	30.91 1.33 -0.60	33.92 1.66 -0.93	42.81 1.58 -1.82	46.57 1.43 -0.56	44.09 1.03 -0.21	40.86 0.80 0.00	39.04 0.83 -0.20	38.43 0.86 -0.14	41.93 1.25 -0.32	44.03 1.34 -0.67	45.07 1.18 -0.05	47.26 1.33 -0.19	50.63 1.50 -0.85	73.21 1.61 -1.74	76.09 2.16 -4.30	79.84 2.62 -6.43	63.04 1.72 -3.82	51.94 1.49 -2.48	45.27 1.17 -0.73	43.20 1.50 -1.29
ORANGEVILLE_WT_PWR 323706	34.29 1.01 -0.62	32.39 1.05 -0.50	30.55 1.13 -0.35	28.82 0.81 -0.25	30.11 0.78 -0.34	32.89 1.03 -0.54	40.22 -0.24 -1.05	43.84 -1.07 -0.32	41.64 -1.33 -0.12	38.94 -1.12 0.00	37.51 -0.61 -0.12	36.91 -0.60 -0.08	40.75 0.20 -0.19	42.58 0.17 -0.38	43.78 -0.09 -0.03	45.22 -0.64 -0.11	47.61 -1.16 -0.49	66.77 -3.35 -0.26	69.25 -2.86 -2.48	72.01 -2.48 -3.70	57.46 -2.24 -2.20	48.00 -1.39 -1.43	42.66 -1.13 -0.42	41.36 0.20 -0.74
ORANGEVILLE___ESR 323794	34.29 1.01 -0.62	32.39 1.05 -0.50	30.55 1.13 -0.35	28.82 0.81 -0.25	30.11 0.78 -0.34	32.89 1.03 -0.54	40.22 -0.24 -1.05	43.84 -1.07 -0.32	41.64 -1.33 -0.12	38.94 -1.12 0.00	37.51 -0.61 -0.12	36.91 -0.60 -0.08	40.75 0.20 -0.19	42.58 0.17 -0.38	43.78 -0.09 -0.03	45.22 -0.64 -0.11	47.61 -1.16 -0.49	66.77 -3.35 -0.26	69.25 -2.86 -2.48	72.01 -2.48 -3.70	57.46 -2.24 -2.20	48.00 -1.39 -1.43	42.66 -1.13 -0.42	41.36 0.20 -0.74
OSWEGATCHIE___HYD 24044	64.49 0.52 -31.32	63.46 0.52 -32.09	62.40 0.49 -32.84	42.29 0.39 -14.14	45.46 0.44 -16.04	57.30 0.59 -25.38	69.01 0.91 -28.69	71.27 0.98 -25.70	55.33 0.73 -11.75	41.80 0.36 -1.38	38.31 0.23 -0.08	41.43 0.15 -3.85	40.72 0.24 -0.12	42.23 -0.04 -0.25	43.77 -0.09 -0.02	45.82 0.00 -0.07	48.60 0.00 -0.32	76.71 1.05 -5.80	85.73 1.74 -14.36	87.39 1.98 -14.61	79.71 1.67 -20.54	73.72 1.39 -24.36	69.99 1.17 -25.45	52.98 1.01 -11.56
OSWEGO___5 23606	36.18 -0.39 -3.92	33.61 -0.34 -3.11	31.00 -0.29 -2.22	28.98 -0.33 -1.54	30.80 -0.35 -2.16	34.35 -0.34 -3.37	45.40 -0.59 -6.58	45.86 -0.76 -2.03	42.80 -0.82 -0.76	39.26 -0.80 0.00	38.01 -0.72 -0.73	37.22 -0.71 -0.51	40.84 -0.69 -1.17	43.76 -0.67 -0.18	43.27 -0.75 -0.18	45.65 -0.78 -0.67	50.52 -0.82 -3.06	79.34 -1.47 -10.95	83.79 -1.39 -15.56	92.77 -1.27 -23.25	70.22 -1.09 -13.82	56.03 -0.91 -8.97	45.13 -0.87 -2.63	44.35 -0.73 -4.66
OSWEGO___6 23613	36.18 -0.39 -3.92	33.61 -0.34 -3.11	31.00 -0.29 -2.22	28.98 -0.33 -1.54	30.80 -0.35 -2.16	34.35 -0.34 -3.37	45.40 -0.59 -6.58	45.86 -0.76 -2.03	42.80 -0.82 -0.76	39.26 -0.80 0.00	38.01 -0.72 -0.73	37.22 -0.71 -0.51	40.84 -0.69 -1.17	43.76 -0.67 -0.18	43.27 -0.75 -0.18	45.65 -0.78 -0.67	50.52 -0.82 -3.06	79.34 -1.47 -10.95	83.79 -1.39 -15.56	92.77 -1.27 -23.25	70.22 -1.09 -13.82	56.03 -0.91 -8.97	45.13 -0.87 -2.63	44.35 -0.73 -4.66



OUTOKUMPU-AB___DRP 24206	34.33 1.11 -0.57	32.53 1.23 -0.45	30.35 0.96 -0.32	28.74 0.75 -0.22	30.11 0.81 -0.31	32.94 1.13 -0.49	39.65 -0.71 -0.95	42.92 -1.96 -0.29	40.43 -2.53 -0.11	37.98 -2.08 0.00	37.04 -1.06 -0.11	36.53 -0.97 -0.07	40.57 0.04 -0.17	42.33 -0.04 -0.35	43.51 -0.35 -0.03	45.07 -0.78 -0.10	47.18 -1.55 -0.44	65.41 -4.40 0.05	67.56 -4.32 -2.25	70.19 -3.96 -3.36	55.88 -3.62 -2.00	46.87 -2.40 -1.30	41.75 -1.99 -0.38	41.25 0.16 -0.67
OXBOW___BTM 323836	34.16 0.95 -0.56	32.40 1.11 -0.45	30.61 1.22 -0.32	28.82 0.83 -0.22	30.02 0.72 -0.31	32.78 0.97 -0.49	39.33 -1.02 -0.95	42.65 -2.23 -0.29	40.78 -2.18 -0.11	38.34 -1.72 0.00	37.04 -1.06 -0.11	36.53 -0.97 -0.07	40.52 0.00 -0.17	42.37 0.00 -0.35	43.56 -0.30 -0.03	44.84 -1.01 -0.10	46.94 -1.79 -0.44	65.04 -4.75 0.07	67.27 -4.60 -2.24	69.60 -4.53 -3.34	55.64 -3.85 -1.99	46.71 -2.54 -1.29	41.75 -1.99 -0.38	41.09 0.00 -0.67
OXBOW___ 24026	34.16 0.95 -0.56	32.40 1.11 -0.45	30.20 0.81 -0.32	28.63 0.64 -0.22	29.99 0.70 -0.31	32.78 0.97 -0.49	39.29 -1.06 -0.95	42.43 -2.45 -0.29	40.00 -2.96 -0.11	37.58 -2.48 0.00	36.70 -1.41 -0.11	36.19 -1.31 -0.07	40.16 -0.36 -0.17	41.95 -0.42 -0.35	43.07 -0.79 -0.03	44.61 -1.24 -0.10	46.74 -1.98 -0.44	64.84 -4.96 0.07	66.99 -4.87 -2.24	69.46 -4.67 -3.34	55.40 -4.08 -1.99	46.52 -2.73 -1.29	41.36 -2.39 -0.38	41.05 -0.04 -0.67
OXY_CHEM_DSASP 323612	33.89 0.69 -0.56	32.18 0.89 -0.45	30.00 0.61 -0.32	28.43 0.44 -0.22	29.76 0.46 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	41.85 -3.03 -0.29	39.44 -3.51 -0.11	37.10 -2.96 0.00	36.21 -1.90 -0.11	35.74 -1.76 -0.07	39.64 -0.89 -0.17	41.36 -1.01 -0.35	42.50 -1.36 -0.03	43.97 -1.88 -0.10	46.16 -2.56 -0.44	63.98 -5.80 0.08	66.07 -5.78 -2.23	68.53 -5.59 -3.33	54.70 -4.77 -1.98	45.99 -3.26 -1.28	40.79 -2.95 -0.38	40.68 -0.40 -0.67
OZONE_PARK_ESR 323760	34.80 1.93 -0.23	32.60 1.63 -0.13	30.43 1.37 0.00	29.12 1.36 0.00	30.37 1.39 0.00	33.15 1.69 -0.13	42.68 2.68 -0.59	48.51 3.25 -0.67	47.34 3.34 -1.15	44.97 3.41 -1.51	42.21 3.53 -0.68	41.96 3.78 -0.75	45.06 3.79 -0.91	47.04 3.95 -1.07	49.20 4.21 -1.16	51.86 4.07 -2.04	54.17 4.39 -1.50	77.78 5.17 -2.75	76.61 4.60 -2.39	77.80 4.25 -2.76	62.31 3.39 -1.41	51.74 2.54 -1.24	46.64 2.39 -0.89	43.15 2.02 -0.71
PACKARD_115_KV_ADAMS_187_REV_LBMP_A 345013	33.89 0.69 -0.56	32.18 0.89 -0.45	30.00 0.61 -0.32	28.43 0.44 -0.22	29.76 0.46 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	41.85 -3.03 -0.29	39.44 -3.51 -0.11	37.10 -2.96 0.00	36.21 -1.90 -0.11	35.74 -1.76 -0.07	39.64 -0.89 -0.17	41.36 -1.01 -0.35	42.50 -1.36 -0.03	43.97 -1.88 -0.10	46.16 -2.56 -0.44	63.98 -5.80 0.08	66.07 -5.78 -2.23	68.53 -5.59 -3.33	54.70 -4.77 -1.98	45.99 -3.26 -1.28	40.79 -2.95 -0.38	40.68 -0.40 -0.67
PACKARD__115KV_DUPONT_184 80571	33.89 0.69 -0.56	32.18 0.89 -0.45	30.00 0.61 -0.32	28.43 0.44 -0.22	29.76 0.46 -0.31	32.50 0.69 -0.48	38.81 -1.54 -0.94	41.85 -3.03 -0.29	39.44 -3.51 -0.11	37.10 -2.96 0.00	36.21 -1.90 -0.11	35.74 -1.76 -0.07	39.64 -0.89 -0.17	41.36 -1.01 -0.35	42.50 -1.36 -0.03	43.97 -1.88 -0.10	46.16 -2.56 -0.44	63.98 -5.80 0.08	66.07 -5.78 -2.23	68.53 -5.59 -3.33	54.70 -4.77 -1.98	45.99 -3.26 -1.28	40.79 -2.95 -0.38	40.68 -0.40 -0.67
PARKCHTR_138_KV_TB2S_REV_LBMP_J 345007	34.67 1.80 -0.23	32.48 1.51 -0.13	30.29 1.22 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.71 1.25 -0.13	42.05 2.05 -0.59	47.80 2.54 -0.67	46.70 2.70 -1.15	44.37 2.80 -1.51	41.72 3.04 -0.68	41.47 3.29 -0.75	44.50 3.23 -0.91	46.45 3.36 -1.07	48.55 3.55 -1.16	51.13 3.34 -2.04	53.40 3.62 -1.50	76.66 4.05 -2.75	75.43 3.41 -2.39	76.60 3.04 -2.76	61.27 2.36 -1.41	50.88 1.68 -1.24	46.12 1.86 -0.89	42.82 1.70 -0.71
PARKCHTR_13_KV_CPCTY_REV_LBMP_J 345019	35.00 2.12 -0.23	32.79 1.82 -0.13	30.58 1.51 0.00	29.18 1.42 0.00	30.43 1.45 0.00	33.02 1.57 -0.13	42.48 2.48 -0.59	48.25 2.99 -0.67	47.13 3.13 -1.15	44.73 3.16 -1.51	42.02 3.34 -0.68	41.77 3.59 -0.75	44.82 3.55 -0.91	46.83 3.74 -1.07	48.98 3.99 -1.16	51.59 3.80 -2.04	53.88 4.10 -1.50	77.29 4.68 -2.75	76.12 4.11 -2.39	77.30 3.75 -2.76	61.85 2.93 -1.41	51.41 2.21 -1.24	46.60 2.34 -0.89	43.27 2.14 -0.71
PATROON__115KV_TB1 80586	32.73 0.26 0.17	30.93 0.19 0.10	29.33 0.26 0.00	28.10 0.33 0.00	29.24 0.26 0.00	31.54 0.31 0.10	39.35 0.39 0.45	44.74 0.67 0.52	42.48 0.51 0.89	39.34 0.44 1.16	37.67 0.19 0.52	37.07 0.22 0.58	39.53 -0.12 0.70	41.20 0.00 0.82	43.07 0.13 0.89	44.41 0.23 1.57	47.47 0.34 1.15	63.66 -0.07 6.13	63.92 0.00 5.71	63.59 -0.14 7.06	56.30 -0.12 1.09	46.92 -0.10 0.95	42.55 -0.13 0.69	39.54 -0.32 0.55
PATTRSNVILLE___SOLAR 323815	33.55 1.04 0.15	31.69 0.92 0.08	29.94 0.87 0.00	28.63 0.86 0.00	29.91 0.93 0.00	32.24 1.00 0.09	40.33 1.30 0.38	45.62 1.47 0.43	43.01 0.90 0.74	39.61 0.52 0.97	37.80 0.23 0.44	37.13 0.19 0.49	39.81 0.04 0.59	41.46 0.13 0.69	43.31 0.22 0.74	44.90 0.46 1.31	48.19 0.87 0.96	69.87 1.32 1.32	70.40 1.88 1.11	71.54 1.98 1.23	58.14 1.55 0.91	48.47 1.30 0.80	43.88 1.08 0.57	40.81 0.85 0.46
PAVMNTRD_115_KV_BK1_REV_LBMP_A 345030	34.14 0.91 -0.58	32.23 0.93 -0.46	30.12 0.73 -0.33	28.52 0.53 -0.23	29.94 0.64 -0.32	32.80 0.97 -0.50	39.83 -0.55 -0.97	43.19 -1.69 -0.30	40.65 -2.31 -0.11	38.14 -1.92 0.00	37.20 -0.91 -0.11	36.72 -0.79 -0.08	40.61 0.08 -0.17	42.38 0.00 -0.36	43.55 -0.31 -0.03	45.26 -0.59 -0.10	47.48 -1.26 -0.45	65.85 -4.05 -0.04	67.96 -3.97 -2.30	70.63 -3.61 -3.44	56.21 -3.34 -2.05	47.19 -2.11 -1.33	41.89 -1.86 -0.39	41.07 -0.04 -0.69
PAWLING_115_KV_BK3_REV_LBMP_H 345028	34.57 1.73 -0.19	32.52 1.57 -0.11	30.41 1.34 0.00	29.07 1.30 0.00	30.29 1.30 0.00	32.97 1.53 -0.11	42.39 2.48 -0.50	48.10 2.94 -0.57	46.78 2.96 -0.98	44.30 2.96 -1.28	41.46 2.89 -0.57	41.17 3.11 -0.64	44.28 3.15 -0.77	46.20 3.28 -0.90	48.36 3.55 -0.98	51.04 3.57 -1.73	53.26 3.72 -1.26	76.59 4.40 -2.33	75.62 3.97 -2.02	76.81 3.68 -2.34	61.69 2.99 -1.20	51.36 2.35 -1.05	46.20 2.08 -0.75	42.76 1.74 -0.60
PEEKSKILL___ 23653	34.31 1.43 -0.23	32.20 1.24 -0.13	30.03 0.96 0.00	28.74 0.97 0.00	30.02 1.04 0.00	32.71 1.25 -0.13	42.00 2.01 -0.59	47.66 2.41 -0.67	46.44 2.44 -1.15	44.17 2.60 -1.50	41.30 2.62 -0.68	41.02 2.84 -0.75	44.09 2.82 -0.91	46.03 2.94 -1.06	48.15 3.16 -1.15	50.89 3.11 -2.03	53.01 3.24 -1.49	76.23 3.63 -2.74	75.14 3.14 -2.38	76.45 2.90 -2.75	61.15 2.24 -1.41	50.92 1.72 -1.23	45.81 1.56 -0.89	42.42 1.29 -0.71
PGE MADISON___WINDPWR 24146	35.77 2.42 -0.71	33.84 2.44 -0.56	31.74 2.27 -0.40	30.04 2.00 -0.28	31.58 2.20 -0.39	34.69 2.76 -0.61	44.10 3.51 -1.19	48.65 3.70 -0.37	45.60 2.61 -0.14	41.54 1.48 0.00	39.54 1.41 -0.13	38.79 1.27 -0.09	42.02 1.45 -0.21	43.89 1.43 -0.44	45.31 1.45 -0.03	48.07 2.20 -0.12	51.49 2.66 -0.55	75.46 4.26 -1.33	78.08 5.64 -2.81	81.43 6.44 -4.20	65.06 5.06 -2.50	53.62 4.03 -1.62	47.18 3.34 -0.47	44.37 3.11 -0.84



PIERCEFIELD___HYD 23852	78.61 0.16 -45.80	77.99 0.12 -47.02	77.40 0.12 -48.21	48.55 0.08 -20.70	52.51 0.09 -23.44	68.54 0.13 -37.09	81.43 0.35 -41.67	82.69 0.40 -37.70	60.53 0.43 -17.25	42.42 0.32 -2.04	38.31 0.27 -0.04	43.16 0.11 -5.63	40.66 0.24 -0.07	42.28 0.13 -0.14	43.89 0.04 -0.01	45.74 -0.05 -0.04	48.45 0.00 -0.17	79.02 1.33 -7.83	91.01 1.74 -19.64	91.97 1.91 -19.27	87.98 1.55 -28.93	84.31 1.30 -35.04	81.77 1.13 -37.28	58.09 1.09 -16.58
PINELAWN_CC_1 323563	34.83 1.96 -0.23	32.45 1.48 -0.13	30.14 1.08 0.00	28.74 0.97 0.00	30.08 1.10 0.00	32.87 1.41 -0.13	42.16 2.17 -0.59	46.99 1.74 -0.66	45.92 1.93 -1.14	44.33 2.76 -1.51	41.91 3.23 -0.68	41.66 3.48 -0.75	44.22 2.94 -0.91	45.77 2.69 -1.06	47.26 2.28 -1.15	45.96 2.11 1.90	51.94 2.17 -1.48	66.75 2.17 5.28	73.39 1.39 -2.37	63.37 1.06 8.48	49.37 1.04 9.17	46.22 1.05 2.80	44.80 0.91 -0.52	42.46 1.33 -0.71
PJM_GEN_HTTP_PROXY 323702	34.47 1.60 -0.23	32.32 1.36 -0.13	30.11 1.04 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.87 1.41 -0.13	42.28 2.28 -0.59	47.98 2.72 -0.67	46.78 2.78 -1.15	44.49 2.92 -1.51	41.72 3.04 -0.68	41.47 3.29 -0.75	44.54 3.27 -0.91	46.49 3.40 -1.07	48.59 3.60 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.87 4.26 -2.75	75.63 3.62 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.12 1.92 -1.24	47.12 1.82 -1.93	41.63 1.54 0.32
PJM_GEN_KEystone 24065	33.91 0.82 -0.45	31.88 0.71 -0.33	29.93 0.67 -0.19	29.01 0.56 -0.69	29.06 0.61 0.53	31.81 0.78 0.30	39.44 0.35 0.32	43.66 0.13 1.06	42.03 0.04 0.86	39.78 0.32 0.60	37.96 0.65 0.69	37.56 0.79 0.65	40.77 1.13 0.72	42.98 1.22 0.26	44.57 1.14 0.40	46.63 0.87 -0.01	53.18 0.58 -4.31	63.80 -0.84 5.23	68.90 -0.97 -0.25	70.61 -0.99 -0.81	56.14 -0.86 0.50	48.49 -0.39 -0.91	43.70 -0.22 -0.55	39.23 0.24 1.43
PJM_GEN_NEPTUNE_PROXY 323594	34.47 1.60 -0.23	32.17 1.20 -0.13	29.91 0.84 0.00	28.51 0.75 0.00	29.85 0.87 0.00	32.62 1.16 -0.13	41.81 1.81 -0.59	46.77 1.52 -0.66	45.66 1.67 -1.14	44.01 2.44 -1.51	41.53 2.85 -0.68	41.29 3.10 -0.75	43.89 2.62 -0.91	45.52 2.44 -1.06	47.44 2.45 -1.15	45.30 2.29 2.74	52.13 2.37 -1.48	65.31 2.44 7.00	73.88 1.88 -2.37	61.53 1.63 10.89	47.27 1.21 11.44	45.07 0.77 3.66	45.59 0.74 -1.48	41.10 1.01 0.32
PJM_GEN_VFT_PROXY 323633	34.31 1.43 -0.23	32.17 1.20 -0.13	29.97 0.90 0.00	20.81 0.94 7.90	19.71 1.01 10.29	23.40 1.25 9.18	25.40 2.09 16.10	25.70 2.54 21.43	25.70 2.61 19.76	26.33 2.76 17.12	26.33 2.89 14.56	26.58 3.14 14.24	32.48 3.07 16.84	34.79 3.42 12.73	36.92 3.34 12.46	40.77 3.52 12.17	42.57 3.91 11.04	43.87 3.34 31.20	41.18 3.04 29.10	36.73 2.36 32.65	35.60 1.68 23.13	30.78 1.61 14.05	25.29 1.33 14.19	16.45
PLATSBURG_115KV_PMLD1 355749	37.39 1.27 -3.47	35.43 1.02 -3.56	33.57 0.84 -3.66	30.03 0.69 -1.57	31.42 0.67 -1.77	34.76 0.63 -2.81	43.58 1.02 -3.14	48.56 1.11 -2.86	45.36 1.20 -1.31	41.58 1.36 -0.16	39.22 1.22 0.00	39.01 1.16 -0.43	41.65 1.29 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.11 -0.64 0.00	47.37 -0.92 0.00	70.92 0.49 -0.56	71.96 0.91 -1.43	73.22 1.06 -1.37	60.45 0.81 -2.14	51.17 0.58 -2.63	47.15 0.95 -2.83	43.39 1.74 -1.24
PLEASANTVLY___LBMP 24000	34.07 1.18 -0.25	32.00 1.02 -0.14	29.91 0.84 0.00	28.62 0.86 0.00	29.85 0.87 0.00	32.51 1.03 -0.15	41.72 1.66 -0.65	47.38 2.05 -0.74	46.18 2.06 -1.28	43.89 2.16 -1.67	40.92 2.17 -0.75	40.62 2.36 -0.84	43.67 2.30 -1.01	45.60 2.40 -1.18	47.70 2.59 -1.28	50.52 2.52 -2.26	52.59 2.66 -1.65	75.77 2.86 -3.04	74.71 2.44 -2.64	76.04 2.19 -3.06	60.79 1.73 -1.57	50.63 1.30 -1.37	45.61 1.26 -0.99	42.21 1.01 -0.79
PLSNTVLE_13_KV_13.8KVDIST 80602	34.34 1.47 -0.23	32.23 1.26 -0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.08 1.10 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	47.80 2.54 -0.67	46.62 2.61 -1.16	44.34 2.76 -1.51	41.49 2.81 -0.68	41.22 3.03 -0.76	44.30 3.03 -0.92	46.24 3.15 -1.07	48.32 3.33 -1.16	51.00 3.20 -2.05	53.21 3.43 -1.49	76.47 3.84 -2.76	75.37 3.34 -2.40	76.61 3.04 -2.77	61.34 2.42 -1.42	50.98 1.77 -1.24	46.00 1.73 -0.90	42.54 1.41 -0.72
PLSNTVLE_13_KV_13KVDISA_REV_LBMP_I 345020	34.34 1.47 -0.23	32.23 1.26 -0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.08 1.10 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	47.80 2.54 -0.67	46.62 2.61 -1.16	44.34 2.76 -1.51	41.49 2.81 -0.68	41.22 3.03 -0.76	44.30 3.03 -0.92	46.24 3.15 -1.07	48.32 3.33 -1.16	51.00 3.20 -2.05	53.21 3.43 -1.49	76.47 3.84 -2.76	75.37 3.34 -2.40	76.61 3.04 -2.77	61.34 2.42 -1.42	50.98 1.77 -1.24	46.00 1.73 -0.90	42.54 1.41 -0.72
PLSTVYCH_69_KV_RQ-3_RG2_REV_LBMP_G 345023	34.06 1.50 0.09	32.15 1.36 0.05	30.23 1.16 0.00	28.96 1.19 0.00	30.14 1.16 0.00	32.65 1.38 0.05	41.31 2.13 0.23	46.87 2.54 0.26	44.85 2.44 0.44	41.97 2.48 0.58	40.14 2.39 0.26	39.68 2.54 0.29	42.55 2.54 0.35	44.30 2.69 0.41	46.33 2.94 0.44	47.99 3.02 0.78	50.90 3.19 0.57	72.44 3.63 1.05	72.05 3.34 0.92	72.78 3.04 1.06	59.49 2.53 0.54	49.46 1.97 0.47	44.85 1.82 0.34	41.60 1.45 0.27
POLETTI____ 23519	25.66 1.40 8.39	25.66 1.14 6.33	25.75 0.84 4.16	25.72 0.78 2.82	25.69 0.78 4.07	25.66 0.85 6.51	25.67 1.54 15.28	25.71 1.96 20.83	25.80 2.23 19.28	25.75 2.36 16.68	27.09 2.58 13.49	27.13 2.92 13.22	27.10 2.74 16.00	27.66 2.90 17.27	29.66 3.24 17.42	30.51 2.93 18.17	34.51 3.23 17.01	57.36 3.21 15.72	56.63 2.65 15.65	57.81 2.19 15.18	42.48 1.67 16.69	32.08 1.10 16.99	27.36 1.39 17.40	27.09 1.25 14.58
POMONA___ESR 323819	34.22 1.37 -0.21	32.16 1.20 -0.11	30.00 0.93 0.00	28.74 0.97 0.00	30.02 1.04 0.00	32.70 1.25 -0.12	41.84 1.89 -0.54	47.51 2.32 -0.61	46.21 2.31 -1.05	43.83 2.40 -1.37	41.09 2.47 -0.62	40.77 2.66 -0.69	43.81 2.62 -0.83	45.81 2.82 -0.97	47.87 2.98 -1.05	50.57 2.97 -1.85	52.78 3.14 -1.36	75.71 3.35 -2.49	74.65 2.86 -2.17	75.92 2.62 -2.51	60.91 2.13 -1.28	50.77 1.68 -1.12	45.78 1.61 -0.81	42.32 1.25 -0.65
PORT_JEFF_3 23555	34.73 1.86 -0.23	32.36 1.39 -0.13	30.03 0.96 0.00	28.63 0.86 0.00	30.00 1.01 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	46.77 1.52 -0.66	45.75 1.76 -1.14	44.17 2.60 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.18 2.91 -0.91	45.65 2.56 -1.06	47.48 2.50 -1.15	45.64 2.29 2.40	52.18 2.41 -1.48	65.86 2.30 6.30	73.74 1.74 -2.37	62.37 1.49 9.92	48.24 1.26 10.52	45.47 0.81 3.32	44.50 0.65 -0.48	42.34 1.21 -0.71
PORT_JEFF_4 23616	34.73 1.86 -0.23	32.36 1.39 -0.13	30.03 0.96 0.00	28.63 0.86 0.00	30.00 1.01 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	46.77 1.52 -0.66	45.75 1.76 -1.14	44.17 2.60 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.18 2.91 -0.91	45.65 2.56 -1.06	47.48 2.50 -1.15	45.64 2.29 2.40	52.18 2.41 -1.48	65.86 2.30 6.30	73.74 1.74 -2.37	62.37 1.49 9.92	48.24 1.26 10.52	45.47 0.81 3.32	44.50 0.65 -0.48	42.34 1.21 -0.71



PORT_JEFF_IC 23713	34.80 1.93 -0.23	32.39 1.42 -0.13	30.14 1.08 0.00	28.68 0.92 0.00	30.03 1.04 0.00	32.81 1.35 -0.13	42.13 2.13 -0.59	46.90 1.65 -0.66	45.93 1.93 -1.15	44.13 2.56 -1.51	41.87 3.19 -0.68	41.81 3.63 -0.75	44.66 3.39 -0.91	46.23 3.15 -1.06	48.05 3.07 -1.15	45.75 2.38 2.38	52.47 2.70 -1.48	65.76 2.17 6.27	73.67 1.67 -2.37	62.27 1.35 9.87	48.46 1.44 10.47	45.63 0.96 3.30	44.71 0.87 -0.48	42.54 1.41 -0.71
PPL PILGRIM_ST_GT1 24216	35.06 2.19 -0.23	32.63 1.66 -0.13	30.32 1.25 0.00	28.88 1.11 0.00	30.26 1.27 0.00	33.06 1.60 -0.13	42.44 2.44 -0.59	47.26 2.01 -0.66	46.22 2.23 -1.14	44.61 3.04 -1.51	42.21 3.53 -0.68	42.00 3.82 -0.75	44.58 3.31 -0.91	46.02 2.94 -1.06	47.79 2.81 -1.15	46.04 2.61 2.32	52.37 2.61 -1.48	66.53 2.80 6.13	74.23 2.23 -2.37	63.09 1.98 9.68	48.87 1.67 10.30	45.89 1.15 3.23	44.89 1.04 -0.48	42.70 1.57 -0.71
PPL PILGRIM_ST_GT2 24217	35.06 2.19 -0.23	32.63 1.66 -0.13	30.32 1.25 0.00	28.88 1.11 0.00	30.26 1.27 0.00	33.06 1.60 -0.13	42.44 2.44 -0.59	47.26 2.01 -0.66	46.22 2.23 -1.14	44.61 3.04 -1.51	42.21 3.53 -0.68	42.00 3.82 -0.75	44.58 3.31 -0.91	46.02 2.94 -1.06	47.79 2.81 -1.15	46.04 2.61 2.32	52.37 2.61 -1.48	66.53 2.80 6.13	74.23 2.23 -2.37	63.09 1.98 9.68	48.87 1.67 10.30	45.89 1.15 3.23	44.89 1.04 -0.48	42.70 1.57 -0.71
PPL_SHRM_GT3 24213	34.38 1.50 -0.23	31.99 1.02 -0.13	29.71 0.64 0.00	28.29 0.53 0.00	29.65 0.67 0.00	32.40 0.94 -0.13	41.65 1.65 -0.59	46.32 1.07 -0.66	45.32 1.33 -1.14	43.73 2.16 -1.51	41.42 2.74 -0.68	41.18 3.00 -0.75	43.73 2.46 -0.91	45.22 2.14 -1.06	47.04 2.06 -1.15	45.24 1.88 2.39	51.79 2.03 -1.48	65.53 1.95 6.29	73.46 1.46 -2.37	62.03 1.13 9.89	47.81 0.80 10.50	45.09 0.43 3.31	44.06 0.22 -0.48	41.89 0.77 -0.71
PPL_SHRM_GT4 24214	34.38 1.50 -0.23	31.99 1.02 -0.13	29.71 0.64 0.00	28.29 0.53 0.00	29.65 0.67 0.00	32.40 0.94 -0.13	41.65 1.65 -0.59	46.32 1.07 -0.66	45.32 1.33 -1.14	43.73 2.16 -1.51	41.42 2.74 -0.68	41.18 3.00 -0.75	43.73 2.46 -0.91	45.22 2.14 -1.06	47.04 2.06 -1.15	45.24 1.88 2.39	51.79 2.03 -1.48	65.53 1.95 6.29	73.46 1.46 -2.37	62.03 1.13 9.89	47.81 0.80 10.50	45.09 0.43 3.31	44.06 0.22 -0.48	41.89 0.77 -0.71
PROJECT___ORANGE 1 24174	35.08 0.10 -2.34	33.10 0.09 -2.17	31.13 0.09 -1.98	28.82 0.06 -1.00	30.30 0.09 -1.23	33.39 0.13 -1.94	42.17 -0.12 -2.88	45.94 -0.27 -1.62	43.12 -0.43 -0.70	39.68 -0.44 -0.06	37.85 -0.34 -0.19	37.46 -0.26 -0.29	40.45 -0.20 -0.29	42.47 -0.17 -0.61	43.62 -0.26 -0.05	45.78 -0.14 -0.17	48.86 -0.19 -0.77	70.83 -0.63 -1.60	73.63 -0.49 -4.49	76.85 -0.35 -6.41	61.42 -0.40 -4.32	50.92 -0.34 -3.29	44.74 -0.39 -1.76	41.79 -0.28 -1.66
PROJECT___ORANGE 2 24166	35.08 0.10 -2.34	33.10 0.09 -2.17	31.13 0.09 -1.98	28.82 0.06 -1.00	30.30 0.09 -1.23	33.39 0.13 -1.94	42.17 -0.12 -2.88	45.94 -0.27 -1.62	43.12 -0.43 -0.70	39.68 -0.44 -0.06	37.85 -0.34 -0.19	37.46 -0.26 -0.29	40.45 -0.20 -0.29	42.47 -0.17 -0.61	43.62 -0.26 -0.05	45.78 -0.14 -0.17	48.86 -0.19 -0.77	70.83 -0.63 -1.60	73.63 -0.49 -4.49	76.85 -0.35 -6.41	61.42 -0.40 -4.32	50.92 -0.34 -3.29	44.74 -0.39 -1.76	41.79 -0.28 -1.66
PUCKETT___SOLAR 323809	34.37 1.04 -0.68	32.40 1.02 -0.54	30.50 1.04 -0.38	28.92 0.89 -0.27	30.34 0.99 -0.37	33.06 1.16 -0.58	41.69 1.14 -1.13	46.00 1.07 -0.35	43.71 0.73 -0.13	40.50 0.44 0.00	38.55 0.42 -0.13	37.89 0.37 -0.09	41.08 0.52 -0.20	42.98 0.54 -0.42	44.39 0.53 -0.03	46.55 0.69 -0.12	49.49 0.68 -0.53	71.76 0.63 -1.27	73.42 1.11 -2.68	76.29 1.49 -4.01	60.97 1.09 -2.38	50.52 1.01 -1.55	44.69 0.87 -0.45	42.23 1.01 -0.80
PYRITES___HYD 24023	81.60 0.46 -48.50	81.10 0.46 -49.80	80.54 0.41 -51.07	50.02 0.33 -21.92	54.18 0.38 -24.82	71.07 0.47 -39.28	84.34 0.83 -44.11	85.41 0.89 -39.93	61.94 0.81 -18.28	42.78 0.56 -2.16	38.46 0.42 -0.04	43.61 0.22 -5.96	40.78 0.36 -0.06	42.40 0.25 -0.13	44.11 0.26 -0.01	46.06 0.27 -0.04	48.88 0.43 -0.16	80.34 2.24 -8.24	93.25 2.92 -20.70	94.15 3.11 -20.24	90.58 2.53 -30.55	87.10 2.06 -37.07	84.62 1.78 -39.48	59.57 1.62 -17.54
QUAKERRD_115KV_BK1 80622	32.90 -0.29 -0.54	31.12 -0.15 -0.43	29.11 -0.26 -0.31	27.65 -0.33 -0.21	28.99 -0.29 -0.30	31.60 -0.19 -0.47	39.34 -0.99 -0.91	43.44 -1.43 -0.28	41.33 -1.63 -0.11	38.46 -1.60 0.00	36.85 -1.25 -0.10	36.34 -1.16 -0.07	39.75 -0.77 -0.16	41.64 -0.71 -0.33	42.98 -0.88 -0.03	44.97 -0.87 -0.09	47.69 -1.01 -0.42	67.47 -2.10 0.30	69.83 -1.95 -2.16	72.32 -1.70 -3.22	57.75 -1.67 -1.91	47.92 -1.30 -1.24	42.43 -1.30 -0.36	40.33 -0.73 -0.65
QUENSBRY_115KV_TB8 356137	33.72 1.31 0.23	31.73 1.02 0.13	30.14 1.08 0.00	28.82 1.06 0.00	30.11 1.13 0.00	32.51 1.32 0.13	40.19 1.38 0.60	45.65 1.74 0.68	42.50 0.81 1.16	38.94 0.40 1.52	37.13 -0.19 0.68	36.36 -0.30 0.76	38.75 -0.69 0.92	40.61 -0.34 1.08	42.49 -0.18 1.17	44.01 0.32 2.06	47.84 1.06 1.51	73.98 1.68 -2.44	74.82 2.58 -2.61	77.31 2.90 -3.61	58.08 2.01 1.43	48.40 1.68 1.25	43.77 1.30 0.90	40.46 0.77 0.72
RAMAPO___LBMP 323565	34.09 1.24 -0.20	32.00 1.05 -0.11	29.97 0.90 0.00	28.65 0.89 0.00	29.91 0.93 0.00	32.57 1.13 -0.12	41.62 1.69 -0.52	47.28 2.10 -0.59	45.97 2.10 -1.02	43.60 2.20 -1.33	40.88 2.28 -0.60	40.60 2.51 -0.67	43.63 2.46 -0.81	45.53 2.56 -0.94	47.62 2.76 -1.02	50.25 2.70 -1.80	52.45 2.85 -1.32	75.23 2.93 -2.43	74.25 2.51 -2.11	75.50 2.27 -2.44	60.59 1.84 -1.25	50.55 1.49 -1.09	45.59 1.43 -0.79	42.18 1.13 -0.63
RANKINE____ 23646	34.30 1.08 -0.58	32.44 1.14 -0.46	30.30 0.90 -0.33	28.69 0.69 -0.23	30.08 0.78 -0.32	32.92 1.10 -0.50	39.95 -0.43 -0.97	43.37 -1.52 -0.30	40.82 -2.14 -0.11	38.34 -1.72 0.00	37.39 -0.72 -0.11	36.86 -0.64 -0.07	40.81 0.28 -0.17	42.63 0.25 -0.36	43.77 -0.09 -0.03	45.44 -0.41 -0.10	47.72 -1.01 -0.45	66.25 -3.63 -0.02	68.44 -3.48 -2.29	71.11 -3.11 -3.43	56.61 -2.93 -2.04	47.47 -1.82 -1.32	42.15 -1.60 -0.39	41.26 0.16 -0.69
RAVENSWOOD_GT2_1 24244	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.29 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.17 1.97 -1.24	46.17 1.91 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT2_2 24245	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.29 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.17 1.97 -1.24	46.17 1.91 -0.89	42.74 1.62 -0.71



RAVENSWOOD_GT2_3 24246	34.51 1.63 -0.23	32.36 1.39 -0.13	30.23 1.16 0.00	28.93 1.17 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.07 2.81 -0.67	46.91 2.91 -1.15	44.57 3.00 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.66 3.39 -0.91	46.58 3.49 -1.07	48.72 3.73 -1.16	51.36 3.57 -2.04	53.59 3.81 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.78 1.66 -0.71
RAVENSWOOD_GT2_4 24247	34.51 1.63 -0.23	32.36 1.39 -0.13	30.23 1.16 0.00	28.93 1.17 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.07 2.81 -0.67	46.91 2.91 -1.15	44.57 3.00 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.66 3.39 -0.91	46.58 3.49 -1.07	48.72 3.73 -1.16	51.36 3.57 -2.04	53.59 3.81 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.78 1.66 -0.71
RAVENSWOOD_GT3_1 24248	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.29 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.57 3.00 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT3_2 24249	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.29 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.57 3.00 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT3_3 24250	34.54 1.67 -0.23	32.39 1.42 -0.13	30.26 1.19 0.00	28.93 1.17 0.00	30.20 1.22 0.00	32.90 1.44 -0.13	42.36 2.36 -0.59	48.11 2.85 -0.67	46.96 2.96 -1.15	44.61 3.04 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.76 3.77 -1.16	51.40 3.61 -2.04	53.64 3.86 -1.50	77.08 4.47 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.67 2.76 -1.41	51.27 2.06 -1.24	46.25 1.99 -0.89	42.82 1.70 -0.71
RAVENSWOOD_GT3_4 24251	34.54 1.67 -0.23	32.39 1.42 -0.13	30.26 1.19 0.00	28.93 1.17 0.00	30.20 1.22 0.00	32.90 1.44 -0.13	42.36 2.36 -0.59	48.11 2.85 -0.67	46.96 2.96 -1.15	44.61 3.04 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.76 3.77 -1.16	51.40 3.61 -2.04	53.64 3.86 -1.50	77.08 4.47 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.67 2.76 -1.41	51.27 2.06 -1.24	46.25 1.99 -0.89	42.82 1.70 -0.71
RAVENSWOOD_GT_1 23729	34.64 1.76 -0.23	32.45 1.48 -0.13	30.32 1.25 0.00	28.93 1.17 0.00	30.20 1.22 0.00	32.87 1.41 -0.13	42.32 2.33 -0.59	48.07 2.81 -0.67	47.00 3.00 -1.15	44.65 3.08 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.76	44.74 3.47 -0.91	46.71 3.61 -1.07	48.85 3.86 -1.16	51.40 3.61 -2.04	53.69 3.91 -1.50	77.08 4.47 -2.75	75.84 3.83 -2.39	77.02 3.47 -2.76	61.62 2.70 -1.41	51.17 1.97 -1.24	46.25 1.99 -0.89	42.86 1.74 -0.71
RAVENSWOOD_GT_10 24258	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT_11 24259	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT_4 24252	34.47 1.60 -0.23	32.33 1.36 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.76	44.62 3.35 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT_5 24254	34.47 1.60 -0.23	32.33 1.36 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.76	44.62 3.35 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT_6 24253	34.47 1.60 -0.23	32.33 1.36 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.76	44.62 3.35 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT_7 24255	34.47 1.60 -0.23	32.33 1.36 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.76	44.62 3.35 -0.91	46.54 3.45 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT_8 TEMP GRP(8-11) 24256	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71
RAVENSWOOD_GT_9 24257	34.51 1.63 -0.23	32.36 1.39 -0.13	30.20 1.13 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.32 2.33 -0.59	48.02 2.76 -0.67	46.87 2.87 -1.15	44.53 2.96 -1.51	41.80 3.12 -0.68	41.55 3.37 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.68 3.68 -1.16	51.31 3.52 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.62 2.70 -1.41	51.22 2.01 -1.24	46.21 1.95 -0.89	42.74 1.62 -0.71



RAVENSWOOD___1 23533	34.60 1.73 -0.23	32.45 1.48 -0.13	30.23 1.16 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.28 -0.59	48.02 2.77 -0.67	46.87 2.87 -1.15	44.57 3.01 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.07	48.68 3.68 -1.16	51.45 3.66 -2.04	53.55 3.77 -1.50	77.01 4.40 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.12 1.92 -1.24	46.16 1.91 -0.89	42.78 1.66 -0.71
RAVENSWOOD___2 23534	34.60 1.73 -0.23	32.42 1.45 -0.13	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.84 1.38 -0.13	42.24 2.25 -0.59	47.98 2.72 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.59 3.41 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.63 3.64 -1.16	51.40 3.61 -2.04	53.55 3.77 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.50 2.59 -1.41	51.07 1.87 -1.24	46.12 1.86 -0.89	42.75 1.62 -0.71
RAVENSWOOD___3 23535	34.51 1.63 -0.23	32.36 1.39 -0.13	30.14 1.08 0.00	28.88 1.11 0.00	30.17 1.19 0.00	32.87 1.41 -0.13	42.28 2.28 -0.59	47.98 2.72 -0.67	46.83 2.83 -1.15	44.49 2.92 -1.51	41.76 3.08 -0.68	41.48 3.29 -0.75	44.54 3.27 -0.91	46.49 3.40 -1.07	48.59 3.60 -1.16	51.36 3.57 -2.04	53.50 3.72 -1.50	76.87 4.26 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.17 1.97 -1.24	46.12 1.86 -0.89	42.70 1.57 -0.71
RAVENSWOOD___4 23820	34.57 1.70 -0.23	32.42 1.45 -0.12	30.20 1.13 0.00	28.85 1.08 0.00	30.14 1.16 0.00	32.84 1.38 -0.13	42.24 2.25 -0.59	47.98 2.72 -0.67	46.83 2.83 -1.15	44.53 2.96 -1.51	41.83 3.15 -0.68	41.58 3.41 -0.75	44.62 3.35 -0.91	46.58 3.49 -1.07	48.63 3.64 -1.16	51.40 3.61 -2.04	53.50 3.72 -1.50	76.94 4.33 -2.75	75.70 3.69 -2.39	76.95 3.40 -2.76	61.50 2.59 -1.41	51.07 1.87 -1.23	46.12 1.86 -0.89	42.75 1.62 -0.71
RCPL_TRUST___DRP 24196	34.51 1.63 -0.23	32.39 1.42 -0.13	30.23 1.16 0.00	28.93 1.17 0.00	30.20 1.22 0.00	32.90 1.44 -0.13	42.36 2.36 -0.59	48.11 2.85 -0.67	46.96 2.96 -1.15	44.61 3.04 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.76 3.77 -1.16	51.45 3.66 -2.04	53.69 3.91 -1.50	77.08 4.47 -2.75	75.84 3.83 -2.39	77.09 3.54 -2.76	61.73 2.82 -1.41	51.27 2.06 -1.24	46.25 1.99 -0.89	42.78 1.66 -0.71
RED___ROCHESTER 323720	34.03 0.85 -0.54	32.23 0.96 -0.43	30.28 0.90 -0.31	28.64 0.67 -0.21	29.97 0.69 -0.30	32.70 0.91 -0.46	40.47 0.16 -0.90	44.69 0.16 -0.28	42.74 -0.21 -0.11	39.78 -0.28 0.00	38.07 -0.04 -0.10	37.50 0.00 -0.07	41.24 0.73 -0.16	43.24 0.88 -0.33	44.60 0.74 -0.03	46.48 0.64 -0.09	49.33 0.63 -0.42	69.50 -0.07 0.30	71.83 0.07 -2.14	74.34 0.36 -3.19	59.46 0.06 -1.90	49.44 0.24 -1.23	43.86 0.13 -0.36	41.70 0.64 -0.64
REGAN___SOLAR 323812	34.54 2.02 0.13	32.56 1.79 0.07	30.81 1.74 0.00	29.43 1.67 0.00	30.78 1.80 0.00	33.31 2.07 0.08	41.55 2.48 0.35	46.96 2.77 0.40	43.54 1.37 0.68	39.61 0.44 0.89	37.30 -0.31 0.40	36.42 -0.56 0.44	38.93 -0.89 0.54	40.68 -0.71 0.63	42.63 -0.52 0.68	44.60 0.05 1.20	48.42 1.02 0.88	70.83 2.59 1.62	72.47 4.25 1.41	73.91 4.74 1.63	60.29 3.62 0.83	50.31 3.07 0.73	45.31 2.47 0.52	42.06 2.06 0.42
RENSSELAER___COGEN 23796	32.61 0.13 0.17	30.81 0.06 0.09	29.13 0.06 0.00	27.96 0.20 0.00	29.13 0.15 0.00	31.41 0.19 0.10	39.21 0.24 0.44	44.48 0.40 0.50	42.24 0.26 0.86	39.17 0.24 1.13	37.57 0.08 0.51	36.97 0.11 0.57	39.39 -0.28 0.68	40.97 -0.25 0.80	42.79 -0.17 0.87	44.18 -0.05 1.53	47.21 0.05 1.12	62.58 -0.49 6.80	62.71 -0.56 6.36	62.19 -0.71 7.89	55.92 -0.52 1.06	46.56 -0.48 0.93	42.22 -0.48 0.67	39.35 -0.53 0.53
REPUBLIC_115KV_BARTNBRK 55605	35.09 2.68 0.23	32.94 2.22 0.13	31.31 2.24 0.00	29.90 2.14 0.00	31.27 2.29 0.00	33.82 2.63 0.14	41.61 2.80 0.60	47.47 3.57 0.68	43.69 2.01 1.17	39.85 1.32 1.53	37.88 0.57 0.69	36.96 0.30 0.77	39.35 -0.08 0.93	41.36 0.42 1.08	43.36 0.70 1.18	45.14 1.46 2.08	49.32 2.56 1.52	76.50 4.12 -2.52	77.96 5.64 -2.69	80.74 6.23 -3.71	60.60 4.54 1.44	50.55 3.84 1.26	45.50 3.04 0.91	41.99 2.30 0.73
REVERE_CPPR_DRP 24186	38.31 1.14 -4.52	36.56 1.17 -4.55	34.73 1.10 -4.56	30.76 0.97 -2.02	32.36 1.04 -2.33	36.32 1.32 -3.68	45.58 1.73 -4.44	50.10 1.92 -3.59	45.89 1.41 -1.63	41.08 0.84 -0.18	38.81 0.72 -0.08	38.70 0.71 -0.56	41.21 0.73 -0.13	42.92 0.63 -0.27	44.56 0.70 -0.02	46.92 1.10 -0.08	49.88 1.26 -0.34	73.38 2.03 -1.49	75.77 2.72 -3.43	78.05 3.04 -4.22	63.99 2.42 -4.07	53.99 1.92 -4.10	48.55 1.56 -3.62	43.77 1.37 -1.99
REYNLDPA_13_KV_LD 356490	25.63 -0.07 6.95	23.61 -0.09 7.14	21.65 -0.09 7.33	24.54 -0.08 3.14	25.34 -0.09 3.56	25.57 -0.12 5.63	33.07 -0.04 6.30	38.77 -0.09 5.73	40.31 0.09 2.62	39.87 0.12 0.31	38.08 0.08 0.00	36.53 -0.04 0.85	40.48 0.12 0.00	42.02 0.00 0.00	43.79 -0.04 0.00	45.57 -0.18 0.00	48.14 -0.14 0.00	69.58 0.84 1.13	67.74 0.97 2.86	69.12 1.06 2.74	54.07 0.86 4.29	43.47 0.77 5.27	38.36 0.65 5.66	38.61 0.69 2.49
REYNOLDS_115KV_TB3 80639	32.77 0.33 0.20	31.01 0.28 0.11	29.39 0.32 0.00	28.15 0.39 0.00	29.30 0.32 0.00	31.55 0.34 0.12	39.43 0.55 0.53	44.74 0.76 0.60	42.50 0.69 1.04	39.38 0.68 1.36	37.81 0.42 0.61	37.19 0.45 0.68	39.74 0.20 0.82	41.32 0.25 0.96	43.19 0.39 1.04	44.42 0.50 1.84	47.57 0.63 1.34	61.62 0.28 8.52	61.87 0.21 7.97	60.96 0.07 9.91	56.28 0.06 1.27	46.85 0.00 1.11	42.56 0.00 0.80	39.57 -0.20 0.64
RIVERBAY____ 323610	35.00 2.12 -0.23	32.79 1.82 -0.13	30.58 1.51 0.00	29.18 1.42 0.00	30.43 1.45 0.00	33.02 1.57 -0.13	42.48 2.48 -0.59	48.25 2.99 -0.67	47.13 3.13 -1.15	44.73 3.16 -1.51	42.02 3.34 -0.68	41.77 3.59 -0.75	44.82 3.55 -0.91	46.83 3.74 -1.07	48.98 3.99 -1.16	51.59 3.80 -2.04	53.88 4.10 -1.50	77.29 4.68 -2.75	76.12 4.11 -2.39	77.30 3.75 -2.76	61.85 2.93 -1.41	51.41 2.21 -1.24	46.60 2.34 -0.89	43.27 2.14 -0.71
RIVERSDE_115KV_TB3 55908	32.69 0.23 0.19	30.92 0.19 0.10	29.30 0.23 0.00	28.07 0.31 0.00	29.24 0.26 0.00	31.50 0.28 0.11	39.32 0.39 0.49	44.66 0.62 0.56	42.45 0.56 0.95	39.33 0.52 1.25	37.71 0.27 0.56	37.10 0.30 0.62	39.60 0.00 0.76	41.23 0.08 0.88	43.05 0.18 0.96	44.39 0.32 1.69	47.43 0.39 1.23	62.40 0.00 7.47	62.58 -0.07 6.98	61.92 -0.21 8.66	56.22 -0.12 1.17	46.80 -0.14 1.02	42.46 -0.17 0.74	39.46 -0.36 0.59
ROARING___BROOK_WT_PWR 323790	31.33 -0.16 1.15	29.50 -0.15 1.19	27.71 -0.14 1.22	27.13 -0.11 0.52	28.28 -0.12 0.59	30.27 -0.12 0.93	38.21 -0.16 1.05	43.46 -0.18 0.95	42.29 -0.13 0.44	39.93 -0.08 0.05	37.93 -0.08 0.00	37.17 -0.11 0.14	40.24 -0.12 0.00	41.77 -0.25 0.00	43.44 -0.40 0.00	45.25 -0.50 0.00	47.75 -0.53 0.00	69.19 -0.49 0.19	68.67 -0.48 0.48	69.85 -0.49 0.45	56.44 -0.34 0.71	46.85 -0.24 0.87	42.25 -0.17 0.94	39.84 -0.16 0.41



ROCHESRG_115KV_T4 355643	33.63 0.46 -0.53	31.82 0.56 -0.42	29.74 0.38 -0.30	28.22 0.25 -0.21	29.59 0.32 -0.29	32.28 0.50 -0.45	39.98 -0.32 -0.88	44.06 -0.80 -0.27	41.88 -1.07 -0.10	39.02 -1.04 0.00	37.49 -0.61 -0.10	36.97 -0.52 -0.07	40.55 0.04 -0.16	42.43 0.08 -0.32	43.81 -0.04 -0.02	45.75 -0.09 -0.09	48.45 -0.24 -0.41	68.34 -1.19 0.34	70.67 -1.04 -2.09	73.14 -0.78 -3.12	58.44 -0.92 -1.86	48.60 -0.58 -1.21	43.07 -0.65 -0.35	41.12 0.08 -0.63
ROCHESTER_9_IC 23652	33.81 0.62 -0.54	31.98 0.71 -0.43	29.90 0.52 -0.31	28.37 0.39 -0.21	29.77 0.49 -0.30	32.45 0.66 -0.46	40.20 -0.12 -0.91	44.33 -0.54 -0.28	42.10 -0.86 -0.11	39.18 -0.88 0.00	37.65 -0.46 -0.10	37.12 -0.37 -0.07	40.76 0.24 -0.16	42.69 0.34 -0.33	44.03 0.18 -0.03	46.03 0.18 -0.09	48.80 0.10 -0.42	68.80 -0.77 0.29	71.21 -0.56 -2.14	73.71 -0.28 -3.20	58.83 -0.58 -1.90	48.91 -0.29 -1.24	43.34 -0.39 -0.36	41.34 0.28 -0.64
ROCKVIEW_13_KV_LD 356306	34.47 1.60 -0.23	32.39 1.42 -0.13	30.23 1.16 0.00	28.90 1.14 0.00	30.17 1.19 0.00	32.90 1.44 -0.13	42.32 2.33 -0.59	48.07 2.81 -0.67	46.91 2.91 -1.15	44.61 3.04 -1.51	41.80 3.12 -0.68	41.59 3.41 -0.75	44.66 3.39 -0.91	46.62 3.53 -1.06	48.76 3.77 -1.15	51.36 3.57 -2.04	53.59 3.81 -1.49	76.94 4.33 -2.75	75.84 3.83 -2.39	77.02 3.47 -2.76	61.67 2.76 -1.41	51.27 2.06 -1.24	46.25 1.99 -0.89	42.78 1.66 -0.71
ROME____115KV_TB2 80656	38.31 1.14 -4.52	36.56 1.17 -4.55	34.73 1.10 -4.56	30.76 0.97 -2.02	32.36 1.04 -2.33	36.32 1.32 -3.68	45.58 1.73 -4.44	50.10 1.92 -3.59	45.89 1.41 -1.63	41.08 0.84 -0.18	38.81 0.72 -0.08	38.70 0.71 -0.56	41.21 0.73 -0.13	42.92 0.63 -0.27	44.56 0.70 -0.02	46.92 1.10 -0.08	49.88 1.26 -0.34	73.38 2.03 -1.49	75.77 2.72 -3.43	78.05 3.04 -4.22	63.99 2.42 -4.07	53.99 1.92 -4.10	48.55 1.56 -3.62	43.77 1.37 -1.99
ROSETON____1 23587	34.00 1.14 -0.21	31.94 0.99 -0.11	29.85 0.79 0.00	28.60 0.83 0.00	29.85 0.87 0.00	32.48 1.03 -0.12	41.56 1.62 -0.54	47.11 1.92 -0.61	45.78 1.88 -1.05	43.44 2.00 -1.37	40.67 2.05 -0.62	40.36 2.25 -0.69	43.33 2.14 -0.83	45.26 2.27 -0.97	47.34 2.45 -1.05	50.03 2.42 -1.86	52.15 2.51 -1.36	75.02 2.65 -2.50	74.03 2.23 -2.17	75.29 1.98 -2.51	60.40 1.61 -1.29	50.29 1.20 -1.13	45.35 1.17 -0.81	41.99 0.93 -0.65
ROSETON____2 23588	34.00 1.14 -0.21	31.94 0.99 -0.11	29.85 0.79 0.00	28.60 0.83 0.00	29.85 0.87 0.00	32.48 1.03 -0.12	41.56 1.62 -0.54	47.11 1.92 -0.61	45.78 1.88 -1.05	43.44 2.00 -1.37	40.67 2.05 -0.62	40.36 2.25 -0.69	43.33 2.14 -0.83	45.26 2.27 -0.97	47.34 2.45 -1.05	50.03 2.42 -1.86	52.15 2.51 -1.36	75.02 2.65 -2.50	74.03 2.23 -2.17	75.29 1.98 -2.51	60.40 1.61 -1.29	50.29 1.20 -1.13	45.35 1.17 -0.81	41.99 0.93 -0.65
ROTTTRDAM_115KV_TB3 80664	33.21 0.72 0.15	31.38 0.62 0.08	29.68 0.61 0.00	28.38 0.61 0.00	29.62 0.64 0.00	31.89 0.66 0.09	39.92 0.91 0.39	45.21 1.07 0.45	42.93 0.86 0.77	39.77 0.72 1.01	38.08 0.53 0.45	37.48 0.56 0.51	40.23 0.48 0.61	41.86 0.55 0.71	43.72 0.66 0.77	45.16 0.78 1.36	48.25 0.97 1.00	70.01 1.05 0.91	70.04 1.11 0.70	71.22 1.13 0.70	57.47 0.92 0.95	47.91 0.77 0.83	43.42 0.65 0.60	40.42 0.48 0.48
RUSSELL____1 23602	34.04 0.85 -0.54	32.23 0.96 -0.43	30.07 0.70 -0.31	28.53 0.56 -0.21	29.95 0.67 -0.30	32.70 0.91 -0.46	40.47 0.16 -0.90	44.60 0.16 -0.28	42.40 -0.56 -0.11	39.42 -0.64 0.00	37.87 -0.23 -0.10	37.35 -0.15 -0.07	41.04 0.52 -0.16	43.03 0.67 -0.33	44.39 0.53 -0.03	46.39 0.55 -0.09	49.23 0.53 -0.42	69.43 -0.14 0.30	71.76 0.00 -2.14	74.27 0.28 -3.19	59.34 -0.06 -1.90	49.34 0.14 -1.23	43.68 -0.04 -0.36	41.66 0.61 -0.64
RUSSELL____2 23532	34.04 0.85 -0.54	32.23 0.96 -0.43	30.07 0.70 -0.31	28.53 0.56 -0.21	29.95 0.67 -0.30	32.70 0.91 -0.46	40.47 0.16 -0.90	44.60 0.16 -0.28	42.40 -0.56 -0.11	39.42 -0.64 0.00	37.87 -0.23 -0.10	37.35 -0.15 -0.07	41.04 0.52 -0.16	43.03 0.67 -0.33	44.39 0.53 -0.03	46.39 0.55 -0.09	49.23 0.53 -0.42	69.43 -0.14 0.30	71.76 0.00 -2.14	74.27 0.28 -3.19	59.34 -0.06 -1.90	49.34 0.14 -1.23	43.68 -0.04 -0.36	41.66 0.61 -0.64
RUSSELL____3 23549	34.04 0.85 -0.54	32.23 0.96 -0.43	30.07 0.70 -0.31	28.53 0.56 -0.21	29.95 0.67 -0.30	32.70 0.91 -0.46	40.47 0.16 -0.90	44.60 0.16 -0.28	42.40 -0.56 -0.11	39.42 -0.64 0.00	37.87 -0.23 -0.10	37.35 -0.15 -0.07	41.04 0.52 -0.16	43.03 0.67 -0.33	44.39 0.53 -0.03	46.39 0.55 -0.09	49.23 0.53 -0.42	69.43 -0.14 0.30	71.76 0.00 -2.14	74.27 0.28 -3.19	59.34 -0.06 -1.90	49.34 0.14 -1.23	43.68 -0.04 -0.36	41.66 0.61 -0.64
RUSSELL____4 23556	34.04 0.85 -0.54	32.23 0.96 -0.43	30.07 0.70 -0.31	28.53 0.56 -0.21	29.95 0.67 -0.30	32.70 0.91 -0.46	40.47 0.16 -0.90	44.60 0.16 -0.28	42.40 -0.56 -0.11	39.42 -0.64 0.00	37.87 -0.23 -0.10	37.35 -0.15 -0.07	41.04 0.52 -0.16	43.03 0.67 -0.33	44.39 0.53 -0.03	46.39 0.55 -0.09	49.23 0.53 -0.42	69.43 -0.14 0.30	71.76 0.00 -2.14	74.27 0.28 -3.19	59.34 -0.06 -1.90	49.34 0.14 -1.23	43.68 -0.04 -0.36	41.66 0.61 -0.64
RUSSELL____STATION 23914	34.04 0.85 -0.54	32.23 0.96 -0.43	30.07 0.70 -0.31	28.53 0.56 -0.21	29.95 0.67 -0.30	32.70 0.91 -0.46	40.47 0.16 -0.90	44.60 0.16 -0.28	42.40 -0.56 -0.11	39.42 -0.64 0.00	37.87 -0.23 -0.10	37.35 -0.15 -0.07	41.04 0.52 -0.16	43.03 0.67 -0.33	44.39 0.53 -0.03	46.39 0.55 -0.09	49.23 0.53 -0.42	69.43 -0.14 0.30	71.76 0.00 -2.14	74.27 0.28 -3.19	59.34 -0.06 -1.90	49.34 0.14 -1.23	43.68 -0.04 -0.36	41.66 0.61 -0.64
S SALMON____HYD 24043	38.83 0.23 -5.95	36.90 0.28 -5.78	34.90 0.26 -5.57	30.54 0.17 -2.61	32.29 0.20 -3.10	36.56 0.35 -4.89	46.27 0.35 -6.51	49.41 0.36 -4.46	44.92 0.09 -1.98	40.02 -0.24 -0.20	38.05 -0.23 -0.27	37.94 -0.22 -0.74	40.51 -0.28 -0.43	42.58 -0.34 -0.89	43.51 -0.40 -0.07	45.68 -0.32 -0.25	49.12 -0.29 -1.13	73.19 -0.42 -3.74	77.23 0.00 -7.60	81.43 0.28 -10.36	65.56 0.17 -7.88	54.84 0.14 -6.73	48.09 0.09 -4.64	43.79 0.04 -3.33
S.PERRY__115KV_TB1 80734	35.12 1.83 -0.65	33.21 1.85 -0.51	31.00 1.57 -0.37	29.35 1.33 -0.26	30.88 1.54 -0.36	33.82 1.94 -0.56	41.80 1.30 -1.09	45.72 0.80 -0.34	42.93 -0.04 -0.13	39.70 -0.36 0.00	38.20 0.08 -0.12	37.58 0.07 -0.08	41.32 0.77 -0.19	43.22 0.80 -0.40	44.43 0.57 -0.03	46.55 0.69 -0.11	49.61 0.82 -0.51	70.86 0.70 -0.30	73.66 1.46 -2.57	76.90 2.27 -3.84	61.11 1.32 -2.28	50.70 1.25 -1.48	44.71 0.91 -0.43	42.88 1.70 -0.77
SAWYER_23_KV_LOAD_REV_LBMP_A 345024	34.10 0.88 -0.57	32.28 0.99 -0.45	30.12 0.73 -0.32	28.52 0.53 -0.22	29.91 0.61 -0.31	32.69 0.88 -0.49	39.54 -0.83 -0.96	42.96 -1.92 -0.29	40.47 -2.49 -0.11	38.02 -2.04 0.00	37.08 -1.03 -0.11	36.56 -0.94 -0.07	40.53 0.00 -0.17	42.29 -0.08 -0.35	43.47 -0.39 -0.03	45.07 -0.78 -0.10	47.33 -1.40 -0.44	65.71 -4.12 0.03	67.85 -4.04 -2.26	70.48 -3.68 -3.37	56.11 -3.39 -2.00	47.11 -2.16 -1.30	41.80 -1.95 -0.38	41.01 -0.08 -0.68



SAWYER___23_KV_LOAD 55526	34.10 0.88 -0.57	32.28 0.99 -0.45	30.12 0.73 -0.32	28.52 0.53 -0.22	29.91 0.61 -0.31	32.69 0.88 -0.49	39.54 -0.83 -0.96	42.96 -1.92 -0.29	40.47 -2.49 -0.11	38.02 -2.04 0.00	37.08 -1.03 -0.11	36.56 -0.94 -0.07	40.53 0.00 -0.17	42.29 -0.08 -0.35	43.47 -0.39 -0.03	45.07 -0.78 -0.10	47.33 -1.40 -0.44	65.71 -4.12 0.03	67.85 -4.04 -2.26	70.48 -3.68 -3.37	56.11 -3.39 -2.00	47.11 -2.16 -1.30	41.80 -1.95 -0.38	41.01 -0.08 -0.68
SELKIRK___I 23801	33.09 0.52 0.08	31.26 0.46 0.04	29.50 0.44 0.00	28.26 0.50 0.00	29.47 0.49 0.00	31.81 0.53 0.05	39.83 0.63 0.21	45.19 0.85 0.24	42.95 0.52 0.41	39.88 0.36 0.54	37.91 0.15 0.24	37.31 0.15 0.27	39.71 -0.32 0.33	40.63 -1.01 0.38	42.50 -0.92 0.41	44.25 -0.78 0.73	47.12 -0.63 0.53	65.29 -1.26 3.32	65.41 -1.12 3.10	65.73 -1.20 3.85	56.07 -0.92 0.50	46.76 -0.77 0.44	42.31 -0.74 0.32	40.08 -0.08 0.25
SELKIRK___II 23799	32.89 0.36 0.12	31.09 0.31 0.07	29.36 0.29 0.00	28.15 0.39 0.00	29.33 0.35 0.00	31.63 0.38 0.07	39.65 0.55 0.31	44.95 0.71 0.35	42.80 0.56 0.60	39.79 0.52 0.79	38.03 0.38 0.35	37.48 0.45 0.39	39.72 -0.16 0.48	41.26 -0.21 0.56	43.10 -0.13 0.60	44.69 0.00 1.06	47.55 0.05 0.78	64.77 -0.56 4.53	64.77 -0.63 4.23	64.77 -0.78 5.25	56.24 -0.52 0.74	46.89 -0.43 0.65	42.47 -0.43 0.47	39.60 -0.44 0.37
SENECA OSWGO___HYD 24041	36.00 -0.16 -3.51	33.83 -0.15 -3.14	31.68 -0.12 -2.73	29.07 -0.17 -1.47	30.72 -0.14 -1.88	34.14 -0.12 -2.94	43.81 -0.32 -4.72	46.42 -0.45 -2.28	43.30 -0.51 -0.96	39.57 -0.56 -0.07	37.88 -0.50 -0.37	37.42 -0.45 -0.44	40.47 -0.48 -0.59	42.79 -0.46 -1.23	43.40 -0.52 -0.09	45.59 -0.50 -0.34	49.31 -0.53 -1.56	73.68 -1.05 -4.86	77.27 -0.91 -8.55	82.46 -0.78 -12.44	64.73 -0.75 -7.97	53.06 -0.62 -5.72	45.33 -0.61 -2.57	42.81 -0.53 -2.92
SENECA___115KV_TB3 355854	34.34 1.11 -0.58	32.51 1.20 -0.46	30.33 0.93 -0.33	28.71 0.72 -0.23	30.11 0.81 -0.32	32.98 1.16 -0.50	39.99 -0.39 -0.97	43.46 -1.43 -0.30	40.91 -2.06 -0.11	38.38 -1.68 0.00	37.43 -0.68 -0.11	36.94 -0.56 -0.07	40.89 0.36 -0.17	42.71 0.34 -0.36	43.86 0.00 -0.03	45.53 -0.32 -0.10	47.77 -0.97 -0.45	66.39 -3.49 -0.02	68.51 -3.41 -2.29	71.25 -2.97 -3.43	56.66 -2.88 -2.04	47.52 -1.77 -1.32	42.19 -1.56 -0.39	41.31 0.20 -0.69
SENECA___ENERGY 23797	35.52 0.75 -2.12	33.41 0.68 -1.89	31.45 0.75 -1.63	29.26 0.61 -0.89	30.78 0.67 -1.13	33.98 0.88 -1.78	43.03 0.75 -2.88	46.58 0.62 -1.37	43.81 0.38 -0.57	40.34 0.24 -0.04	38.50 0.27 -0.23	37.99 0.30 -0.27	41.29 0.56 -0.37	43.37 0.59 -0.76	44.42 0.53 -0.06	46.56 0.59 -0.21	49.93 0.68 -0.97	72.89 0.56 -2.47	75.81 0.90 -5.28	79.69 1.20 -7.70	63.16 0.75 -4.91	52.09 0.62 -3.50	45.35 0.43 -1.55	42.85 0.64 -1.79
SHOEMAKER___GT 23640	33.90 1.08 -0.18	31.93 0.99 -0.10	29.88 0.81 0.00	28.60 0.83 0.00	29.85 0.87 0.00	32.43 1.00 -0.11	41.38 1.50 -0.47	46.91 1.79 -0.54	45.44 1.67 -0.92	42.95 1.68 -1.21	40.26 1.71 -0.54	39.86 1.83 -0.61	42.86 1.77 -0.73	44.81 1.93 -0.85	46.86 2.10 -0.93	49.53 2.15 -1.63	51.75 2.27 -1.20	74.44 2.38 -2.20	73.63 2.09 -1.91	74.92 1.91 -2.21	60.24 1.61 -1.13	50.25 1.30 -0.99	45.29 1.21 -0.71	41.92 0.93 -0.57
SHOEMAKR_138KV_BK 111 55601	33.90 1.08 -0.18	31.90 0.96 -0.10	29.91 0.84 0.00	28.60 0.83 0.00	29.82 0.84 0.00	32.43 1.00 -0.11	41.37 1.50 -0.47	46.90 1.78 -0.53	45.48 1.71 -0.91	42.98 1.72 -1.19	40.29 1.75 -0.54	39.93 1.91 -0.60	42.94 1.86 -0.72	44.84 1.98 -0.84	46.90 2.15 -0.92	49.52 2.15 -1.61	51.73 2.27 -1.18	74.42 2.38 -2.18	73.61 2.09 -1.89	74.89 1.91 -2.19	60.23 1.61 -1.12	50.19 1.25 -0.98	45.29 1.21 -0.71	41.95 0.97 -0.56
SHOREHAM_IC_1 23715	34.38 1.50 -0.23	31.99 1.02 -0.13	29.71 0.64 0.00	28.29 0.53 0.00	29.65 0.67 0.00	32.40 0.94 -0.13	41.65 1.65 -0.59	46.32 1.07 -0.66	45.32 1.33 -1.14	43.73 2.16 -1.51	41.42 2.74 -0.68	41.18 3.00 -0.75	43.73 2.46 -0.91	45.22 2.14 -1.06	47.04 2.06 -1.15	45.24 1.88 2.39	51.79 2.03 -1.48	65.53 1.95 6.29	73.46 1.46 -2.37	62.03 1.13 9.89	47.81 0.80 10.50	45.09 0.43 3.31	44.06 0.22 -0.48	41.89 0.77 -0.71
SHOREHAM_IC_2 23716	34.38 1.50 -0.23	31.99 1.02 -0.13	29.77 0.70 0.00	28.32 0.56 0.00	29.65 0.67 0.00	32.40 0.94 -0.13	41.65 1.66 -0.59	46.41 1.16 -0.66	45.46 1.46 -1.15	43.61 2.04 -1.51	41.42 2.74 -0.68	41.36 3.18 -0.75	44.22 2.95 -0.91	45.77 2.69 -1.06	47.57 2.59 -1.15	45.24 1.88 2.39	51.98 2.22 -1.48	65.54 1.96 6.29	73.53 1.53 -2.37	62.10 1.20 9.89	47.92 0.92 10.50	45.14 0.48 3.31	44.23 0.39 -0.48	42.06 0.93 -0.71
SISSONVILLE____ 23735	78.61 0.16 -45.80	77.99 0.12 -47.02	77.40 0.12 -48.21	48.55 0.08 -20.70	52.51 0.09 -23.44	68.54 0.13 -37.09	81.43 0.35 -41.67	82.69 0.40 -37.70	60.53 0.43 -17.25	42.42 0.32 -2.04	38.31 0.27 -0.04	43.16 0.11 -5.63	40.66 0.24 -0.07	42.28 0.13 -0.14	43.89 0.04 -0.01	45.74 -0.05 -0.04	48.45 0.00 -0.17	79.02 1.33 -7.83	91.01 1.74 -19.64	91.97 1.91 -19.27	87.98 1.55 -28.93	84.31 1.30 -35.04	81.77 1.13 -37.28	58.09 1.09 -16.58
SITHE_IND_GS1 24169	24.43 -0.65 7.56	24.23 -0.62 6.00	24.23 -0.55 4.28	24.23 -0.56 2.98	24.23 -0.58 4.17	24.23 -0.60 6.50	25.82 -0.90 12.68	39.56 -1.11 3.91	40.22 -1.15 1.47	38.94 -1.12 0.00	35.56 -1.02 1.42	35.47 -0.97 0.98	37.10 -1.01 2.25	36.36 -1.01 4.65	42.38 -1.09 0.36	43.35 -1.10 1.30	41.17 -1.21 5.90	36.29 -1.96 31.61	37.75 -1.88 30.00	24.11 -1.84 44.84	29.31 -1.55 26.64	29.37 -1.29 17.30	37.13 -1.17 5.07	30.37 -1.05 8.99
SITHE_IND_GS2 24170	24.43 -0.65 7.56	24.23 -0.62 6.00	24.23 -0.55 4.28	24.23 -0.56 2.98	24.23 -0.58 4.17	24.23 -0.60 6.50	25.82 -0.90 12.68	39.56 -1.11 3.91	40.22 -1.15 1.47	38.94 -1.12 0.00	35.56 -1.02 1.42	35.47 -0.97 0.98	37.10 -1.01 2.25	36.36 -1.01 4.65	42.38 -1.09 0.36	43.35 -1.10 1.30	41.17 -1.21 5.90	36.29 -1.96 31.61	37.75 -1.88 30.00	24.11 -1.84 44.84	29.31 -1.55 26.64	29.37 -1.29 17.30	37.13 -1.17 5.07	30.37 -1.05 8.99
SITHE_IND_GS3 24171	24.43 -0.65 7.56	24.23 -0.62 6.00	24.23 -0.55 4.28	24.23 -0.56 2.98	24.23 -0.58 4.17	24.23 -0.60 6.50	25.82 -0.90 12.68	39.56 -1.11 3.91	40.22 -1.15 1.47	38.94 -1.12 0.00	35.56 -1.02 1.42	35.47 -0.97 0.98	37.10 -1.01 2.25	36.36 -1.01 4.65	42.38 -1.09 0.36	43.35 -1.10 1.30	41.17 -1.21 5.90	36.29 -1.96 31.61	37.75 -1.88 30.00	24.11 -1.84 44.84	29.31 -1.55 26.64	29.37 -1.29 17.30	37.13 -1.17 5.07	30.37 -1.05 8.99
SITHE_IND_GS4 24172	24.43 -0.65 7.56	24.23 -0.62 6.00	24.23 -0.55 4.28	24.23 -0.56 2.98	24.23 -0.58 4.17	24.23 -0.60 6.50	25.82 -0.90 12.68	39.56 -1.11 3.91	40.22 -1.15 1.47	38.94 -1.12 0.00	35.56 -1.02 1.42	35.47 -0.97 0.98	37.10 -1.01 2.25	36.36 -1.01 4.65	42.38 -1.09 0.36	43.35 -1.10 1.30	41.17 -1.21 5.90	36.29 -1.96 31.61	37.75 -1.88 30.00	24.11 -1.84 44.84	29.31 -1.55 26.64	29.37 -1.29 17.30	37.13 -1.17 5.07	30.37 -1.05 8.99



SITHE___BATAVIA 24024	34.68 1.47 -0.56	32.92 1.63 -0.44	30.98 1.60 -0.32	29.24 1.25 -0.22	30.57 1.27 -0.31	33.40 1.60 -0.48	40.70 0.35 -0.94	44.61 -0.27 -0.29	42.57 -0.39 -0.11	39.58 -0.48 0.00	38.03 -0.08 -0.10	37.46 -0.04 -0.07	41.53 1.01 -0.17	43.54 1.17 -0.34	44.82 0.96 -0.03	46.49 0.64 -0.10	49.15 0.43 -0.44	68.95 -0.77 0.15	71.50 -0.35 -2.22	74.18 0.07 -3.32	59.07 -0.40 -1.97	49.25 0.00 -1.28	43.79 0.04 -0.37	42.21 1.13 -0.67
SITHE___INDEPEND 23800	24.43 -0.65 7.56	24.23 -0.62 6.00	24.20 -0.58 4.28	24.20 -0.58 2.98	24.23 -0.58 4.17	24.23 -0.60 6.50	25.82 -0.91 12.68	39.56 -1.11 3.91	40.17 -1.20 1.47	38.90 -1.16 0.00	35.52 -1.06 1.42	35.44 -1.01 0.98	37.06 -1.05 2.25	36.32 -1.05 4.65	42.34 -1.14 0.36	43.31 -1.14 1.30	41.17 -1.21 5.90	36.29 -1.96 31.61	37.75 -1.88 30.00	24.11 -1.84 44.84	29.31 -1.55 26.64	29.37 -1.30 17.30	37.08 -1.21 5.07	30.37 -1.05 8.99
SITHE___MASSENA 23902	98.75 0.00 -66.10	98.75 -0.03 -67.94	98.75 -0.06 -69.74	57.61 -0.06 -29.90	62.74 -0.06 -33.82	84.78 -0.06 -53.52	99.31 0.00 -59.90	99.10 0.00 -54.51	68.03 0.22 -24.96	43.26 0.24 -2.96	38.19 0.19 0.00	45.58 0.04 -8.12	40.56 0.20 0.00	42.15 0.13 0.00	43.92 0.09 0.00	45.71 -0.05 0.00	48.28 0.00 0.00	81.67 1.05 -10.75	98.03 1.18 -27.22	98.04 1.20 -26.05	99.30 0.98 -40.83	98.92 0.86 -50.09	97.99 0.78 -53.85	64.89 0.81 -23.67
SITHE___OGDNSBRG 24021	86.76 0.39 -53.72	86.39 0.37 -55.18	85.98 0.32 -56.60	52.33 0.28 -24.29	56.76 0.29 -27.49	75.21 0.38 -43.51	88.90 0.67 -48.82	89.55 0.71 -44.25	63.79 0.69 -20.26	42.94 0.48 -2.40	38.38 0.34 -0.03	44.21 0.19 -6.60	40.73 0.32 -0.05	42.38 0.25 -0.11	44.06 0.22 -0.01	46.01 0.23 -0.03	48.80 0.39 -0.14	81.00 2.10 -9.04	95.02 2.65 -22.74	95.76 2.83 -22.13	93.55 2.36 -33.69	90.82 1.87 -40.98	88.75 1.65 -43.74	61.29 1.50 -19.38
SITHE___STERLING 23777	36.92 0.95 -3.32	35.10 0.96 -3.30	33.26 0.93 -3.26	30.04 0.81 -1.47	31.57 0.87 -1.72	35.13 1.10 -2.71	44.22 1.42 -3.39	48.73 1.56 -2.59	45.17 1.16 -1.16	40.91 0.72 -0.13	38.70 0.61 -0.09	38.43 0.60 -0.41	41.15 0.64 -0.15	42.91 0.59 -0.30	44.47 0.61 -0.02	46.80 0.96 -0.08	49.73 1.06 -0.38	72.86 1.61 -1.38	74.91 2.16 -3.12	77.23 2.41 -4.03	62.88 1.89 -3.48	52.73 1.49 -3.27	47.21 1.21 -2.64	43.06 1.05 -1.60
SLEIGHT__34_KV_TB1 80719	33.55 0.20 -0.71	31.68 0.28 -0.56	29.64 0.17 -0.40	28.13 0.08 -0.28	29.52 0.14 -0.39	32.25 0.31 -0.61	40.40 -0.20 -1.19	44.42 -0.54 -0.37	42.22 -0.77 -0.14	39.22 -0.84 0.00	37.57 -0.57 -0.13	37.03 -0.49 -0.09	40.49 -0.08 -0.21	42.42 -0.04 -0.44	43.69 -0.18 -0.03	45.78 -0.09 -0.12	48.74 -0.10 -0.55	69.45 -0.70 -0.29	71.96 -0.49 -2.82	74.79 -0.21 -4.21	59.54 -0.46 -2.50	49.26 -0.34 -1.63	43.37 -0.48 -0.48	41.22 -0.04 -0.84
SMITHTWN_69_KV_BK 1 55830	34.83 1.96 -0.23	32.42 1.45 -0.13	30.17 1.10 0.00	28.71 0.94 0.00	30.05 1.07 0.00	32.84 1.38 -0.13	42.17 2.17 -0.59	46.90 1.65 -0.66	45.97 1.97 -1.15	44.17 2.60 -1.51	41.95 3.27 -0.68	41.89 3.71 -0.75	44.70 3.43 -0.91	46.28 3.19 -1.06	48.10 3.11 -1.15	45.81 2.42 2.37	52.56 2.80 -1.48	66.21 2.58 6.24	74.09 2.09 -2.37	62.73 1.77 9.83	48.61 1.55 10.44	45.69 1.01 3.29	44.76 0.91 -0.48	42.62 1.50 -0.71
SOUTH CAIRO___GT 23612	34.83 2.19 0.00	32.97 2.13 0.00	30.81 1.74 0.00	29.62 1.86 0.00	30.66 1.68 0.00	33.55 2.22 0.00	42.44 3.03 0.00	48.06 3.48 0.00	45.42 2.57 0.00	41.98 1.92 0.00	39.33 1.33 0.00	38.55 1.12 0.00	41.00 0.65 0.00	42.95 0.92 0.00	45.15 1.32 0.00	47.72 1.97 0.00	50.55 2.27 0.00	71.06 3.21 2.01	71.52 3.83 1.94	72.00 3.68 2.47	60.84 3.34 0.00	50.70 2.73 0.00	45.54 2.17 0.00	42.11 1.70 0.00
SOUTH HAMPTN___IC 23720	34.83 1.96 -0.23	32.42 1.45 -0.13	30.11 1.04 0.00	28.68 0.91 0.00	30.06 1.07 0.00	32.84 1.38 -0.13	42.12 2.13 -0.59	46.90 1.65 -0.66	45.92 1.93 -1.14	44.33 2.76 -1.51	42.06 3.38 -0.68	41.85 3.67 -0.75	44.50 3.23 -0.91	46.07 2.98 -1.06	47.92 2.94 -1.15	46.15 2.79 2.40	52.76 2.99 -1.48	66.85 3.28 6.30	74.79 2.79 -2.37	63.36 2.48 9.91	48.77 1.78 10.51	45.85 1.20 3.31	44.63 0.78 -0.48	42.38 1.25 -0.71
SOUTHDOW_115KV_TB1 355954	35.33 2.09 -0.59	33.31 2.00 -0.47	31.15 1.74 -0.33	29.47 1.47 -0.23	30.99 1.68 -0.32	34.05 2.22 -0.51	41.50 1.10 -0.99	45.38 0.49 -0.30	42.62 -0.34 -0.11	39.98 -0.08 0.00	38.95 0.84 -0.11	38.36 0.86 -0.08	42.43 1.90 -0.18	44.19 1.81 -0.36	45.31 1.45 -0.03	47.22 1.37 -0.10	49.27 0.53 -0.46	68.62 -1.33 -0.09	70.71 -1.25 -2.34	73.44 -0.85 -3.49	58.31 -1.27 -2.08	48.88 -0.43 -1.35	43.42 -0.35 -0.39	42.29 1.17 -0.70
SOUTHOLD_69_KV_BK 2 55809	35.19 2.32 -0.23	32.76 1.79 -0.13	30.46 1.40 0.00	29.04 1.28 0.00	30.43 1.45 0.00	33.21 1.75 -0.13	42.56 2.56 -0.59	47.43 2.18 -0.66	46.43 2.44 -1.14	44.85 3.29 -1.51	42.67 3.99 -0.68	42.48 4.30 -0.75	45.27 4.00 -0.91	46.87 3.78 -1.06	48.84 3.86 -1.15	47.11 3.75 2.40	53.82 4.06 -1.48	68.46 4.89 6.30	76.39 4.39 -2.37	64.92 4.04 9.91	49.86 2.87 10.51	46.67 2.01 3.31	45.10 1.26 -0.48	42.70 1.57 -0.71
SOUTH_FORK_WT_PWR 323839	35.13 2.25 -0.23	32.70 1.73 -0.13	30.43 1.37 0.00	29.01 1.25 0.00	30.43 1.45 0.00	33.21 1.75 -0.13	42.44 2.44 -0.59	47.30 2.05 -0.66	46.35 2.36 -1.14	44.81 3.24 -1.51	42.67 3.99 -0.68	42.52 4.34 -0.75	45.31 4.04 -0.91	46.95 3.86 -1.06	48.93 3.95 -1.15	47.20 3.84 2.40	53.91 4.15 -1.48	68.60 5.03 6.30	76.46 4.46 -2.37	64.99 4.10 9.91	49.86 2.87 10.51	46.62 1.97 3.31	44.93 1.08 -0.48	42.54 1.41 -0.71
SPIERFLS_115KV_TB 1 80737	33.56 1.14 0.23	31.61 0.89 0.13	30.00 0.93 0.00	28.68 0.92 0.00	29.97 0.99 0.00	32.32 1.13 0.13	40.00 1.18 0.59	45.43 1.52 0.67	42.34 0.64 1.16	38.79 0.24 1.51	37.02 -0.30 0.68	36.26 -0.41 0.76	38.67 -0.77 0.92	40.45 -0.50 1.07	42.37 -0.31 1.16	43.84 0.14 2.05	47.61 0.82 1.50	73.57 1.33 -2.38	74.34 2.16 -2.55	76.73 2.41 -3.53	57.75 1.67 1.42	48.12 1.39 1.24	43.56 1.08 0.89	40.31 0.61 0.72
ST LAWRENCE____ 23600	27.33 -0.33 5.00	25.37 -0.34 5.13	23.48 -0.32 5.27	25.20 -0.30 2.26	26.08 -0.35 2.56	26.91 -0.37 4.04	34.49 -0.39 4.53	40.02 -0.45 4.12	40.71 -0.26 1.89	39.61 -0.20 0.25	37.78 -0.23 0.00	36.40 -0.34 0.69	40.12 -0.24 0.00	41.68 -0.34 0.00	43.48 -0.35 0.00	45.25 -0.50 0.00	47.75 -0.53 0.00	69.09 0.14 0.92	67.78 0.21 2.06	69.04 0.21 1.97	54.65 0.23 3.09	44.38 0.19 3.78	39.48 0.17 4.06	38.83 0.20 1.79



STATE_CA_115KV_115_LB 55624	32.73 0.26 0.17	30.93 0.19 0.10	29.33 0.26 0.00	28.10 0.33 0.00	29.27 0.29 0.00	31.53 0.31 0.10	39.35 0.39 0.46	44.74 0.67 0.52	42.47 0.51 0.89	39.34 0.44 1.16	37.67 0.19 0.52	37.07 0.22 0.58	39.53 -0.12 0.71	41.20 0.00 0.82	43.07 0.13 0.89	44.41 0.23 1.57	47.47 0.34 1.15	63.71 -0.07 6.08	63.97 0.00 5.66	63.66 -0.14 6.99	56.29 -0.12 1.09	46.92 -0.10 0.95	42.55 -0.13 0.69	39.54 -0.32 0.55
STATE_ST_34_KV_LOAD 55959	35.30 0.49 -2.16	33.23 0.46 -1.92	31.17 0.44 -1.66	29.00 0.33 -0.90	30.54 0.41 -1.16	33.70 0.56 -1.81	42.77 0.43 -2.93	46.29 0.31 -1.39	43.48 0.04 -0.59	39.98 -0.12 -0.04	38.24 0.00 -0.24	37.74 0.04 -0.27	40.93 0.20 -0.38	43.05 0.25 -0.78	44.07 0.18 -0.06	46.33 0.37 -0.22	49.65 0.39 -0.99	72.66 0.28 -2.52	75.57 0.56 -5.38	79.41 0.78 -7.84	62.96 0.46 -5.00	51.87 0.34 -3.57	45.08 0.13 -1.58	42.56 0.32 -1.82
STATION_5_MISC_HYD 23604	33.81 0.62 -0.54	31.98 0.71 -0.43	30.10 0.73 -0.31	28.45 0.47 -0.21	29.77 0.49 -0.30	32.45 0.66 -0.46	40.20 -0.12 -0.91	44.42 -0.45 -0.28	42.48 -0.47 -0.11	39.54 -0.52 0.00	37.84 -0.26 -0.10	37.27 -0.22 -0.07	40.92 0.40 -0.16	42.90 0.54 -0.33	44.30 0.44 -0.03	46.12 0.28 -0.09	48.85 0.15 -0.42	68.87 -0.70 0.29	71.29 -0.48 -2.14	73.78 -0.21 -3.20	59.00 -0.40 -1.90	49.01 -0.19 -1.24	43.51 -0.22 -0.36	41.38 0.32 -0.64
STA_168_34_KV_BK1_2_REV_LBMP_B 345032	34.72 1.14 -0.93	32.78 1.20 -0.74	30.58 0.99 -0.53	28.99 0.86 -0.37	30.51 1.01 -0.51	33.38 1.25 -0.80	41.87 0.91 -1.56	45.78 0.71 -0.48	43.46 0.43 -0.18	40.22 0.16 0.00	38.59 0.42 -0.17	38.00 0.45 -0.12	41.64 1.01 -0.28	43.77 1.18 -0.57	44.97 1.10 -0.04	47.19 1.28 -0.16	50.50 1.50 -0.73	72.86 1.68 -1.31	75.40 2.09 -3.69	78.85 2.55 -5.51	62.38 1.61 -3.27	51.44 1.34 -2.13	44.99 1.00 -0.62	42.93 1.41 -1.11
STA_56_34_KV_BUS2_REV_LBMP_B 345033	33.55 0.36 -0.54	31.77 0.49 -0.43	29.67 0.29 -0.31	28.17 0.19 -0.21	29.54 0.26 -0.30	32.23 0.44 -0.47	39.97 -0.35 -0.91	44.11 -0.76 -0.28	41.93 -1.03 -0.11	39.02 -1.04 0.00	37.46 -0.65 -0.10	36.93 -0.56 -0.07	40.52 0.00 -0.16	42.44 0.08 -0.33	43.77 -0.09 -0.03	45.75 -0.09 -0.09	48.56 -0.14 -0.42	68.53 -1.05 0.29	70.95 -0.84 -2.15	73.44 -0.57 -3.22	58.61 -0.81 -1.91	48.68 -0.53 -1.24	43.12 -0.61 -0.36	41.10 0.04 -0.65
STA_56___34_KV_BUS2 355983	33.55 0.36 -0.54	31.77 0.49 -0.43	29.67 0.29 -0.31	28.17 0.19 -0.21	29.54 0.26 -0.30	32.23 0.44 -0.47	39.97 -0.35 -0.91	44.11 -0.76 -0.28	41.93 -1.03 -0.11	39.02 -1.04 0.00	37.46 -0.65 -0.10	36.93 -0.56 -0.07	40.52 0.00 -0.16	42.44 0.08 -0.33	43.77 -0.09 -0.03	45.75 -0.09 -0.09	48.56 -0.14 -0.42	68.53 -1.05 0.29	70.95 -0.84 -2.15	73.44 -0.57 -3.22	58.61 -0.81 -1.91	48.68 -0.53 -1.24	43.12 -0.61 -0.36	41.10 0.04 -0.65
STA_67___115KV_BK2 355882	33.74 0.56 -0.54	31.92 0.65 -0.43	29.84 0.47 -0.30	28.31 0.33 -0.21	29.71 0.43 -0.30	32.38 0.60 -0.46	40.11 -0.20 -0.90	44.24 -0.62 -0.28	42.01 -0.94 -0.10	39.14 -0.92 0.00	37.61 -0.49 -0.10	37.05 -0.45 -0.07	40.68 0.16 -0.16	42.61 0.25 -0.33	43.95 0.09 -0.03	45.89 0.05 -0.09	48.65 -0.05 -0.42	68.66 -0.91 0.30	71.00 -0.77 -2.13	73.56 -0.42 -3.19	58.71 -0.69 -1.89	48.81 -0.38 -1.23	43.25 -0.48 -0.36	41.26 0.20 -0.64
STA_7___115KV_9TRANS 80674	34.04 0.85 -0.54	32.23 0.96 -0.43	30.07 0.70 -0.31	28.53 0.56 -0.21	29.95 0.67 -0.30	32.70 0.91 -0.46	40.47 0.16 -0.90	44.60 -0.27 -0.28	42.40 -0.56 -0.11	39.42 -0.64 0.00	37.87 -0.23 -0.10	37.35 -0.15 -0.07	41.04 0.52 -0.16	43.03 0.67 -0.33	44.39 0.53 -0.03	46.39 0.55 -0.09	49.23 0.53 -0.42	69.43 -0.14 0.30	71.76 0.00 -2.14	74.27 0.28 -3.19	59.34 -0.06 -1.90	49.34 0.14 -1.23	43.68 -0.04 -0.36	41.66 0.61 -0.64
STA_82___115KV_TB1 80780	33.75 0.56 -0.55	31.96 0.68 -0.44	29.84 0.47 -0.31	28.31 0.33 -0.22	29.72 0.43 -0.30	32.42 0.63 -0.47	40.13 -0.20 -0.92	44.25 -0.62 -0.28	42.06 -0.90 -0.11	39.14 -0.92 0.00	37.61 -0.49 -0.10	37.09 -0.41 -0.07	40.68 0.16 -0.16	42.61 0.25 -0.34	43.95 0.09 -0.03	45.94 0.09 -0.09	48.71 0.00 -0.43	68.70 -0.91 0.26	71.11 -0.70 -2.18	73.62 -0.42 -3.25	58.80 -0.63 -1.93	48.84 -0.38 -1.25	43.26 -0.48 -0.37	41.31 0.24 -0.65
STEEL___WIND 323596	34.30 1.08 -0.58	32.47 1.17 -0.46	30.67 1.28 -0.33	28.88 0.89 -0.23	30.14 0.84 -0.32	32.95 1.13 -0.50	39.99 -0.39 -0.97	43.59 -1.29 -0.30	41.59 -1.37 -0.11	39.06 -1.00 0.00	37.73 -0.38 -0.11	37.16 -0.34 -0.07	41.17 0.64 -0.17	43.05 0.67 -0.36	44.25 0.39 -0.03	45.62 -0.23 -0.10	47.87 -0.87 -0.45	66.46 -3.42 -0.02	68.72 -3.20 -2.29	71.25 -2.97 -3.43	56.89 -2.64 -2.04	47.66 -1.63 -1.32	42.50 -1.26 -0.39	41.35 0.24 -0.69
STEPHTWN_115KV_BK_2 55603	32.93 0.46 0.17	31.09 0.34 0.09	29.47 0.41 0.00	28.24 0.47 0.00	29.39 0.41 0.00	31.69 0.47 0.10	39.56 0.59 0.44	44.98 0.89 0.50	42.63 0.64 0.86	39.49 0.56 1.13	37.80 0.30 0.51	37.16 0.30 0.57	39.59 -0.08 0.68	41.27 0.04 0.80	43.14 0.18 0.87	44.54 0.32 1.53	47.65 0.48 1.12	63.27 0.21 6.80	63.55 0.28 6.36	63.11 0.21 7.89	56.56 0.11 1.06	47.14 0.10 0.93	42.70 0.00 0.67	39.68 -0.20 0.53
STEUBEN_REC_LFGE 323667	35.05 1.63 -0.77	32.93 1.48 -0.61	30.84 1.34 -0.44	29.18 1.11 -0.30	30.68 1.28 -0.42	33.68 1.69 -0.66	41.64 0.95 -1.29	45.30 0.31 -0.40	42.53 -0.47 -0.15	39.54 -0.52 0.00	38.18 0.04 -0.14	37.60 0.07 -0.10	41.27 0.69 -0.23	43.13 0.63 -0.47	44.18 0.31 -0.04	46.16 0.27 -0.13	48.88 0.00 -0.60	69.80 -0.98 -0.91	72.33 -0.35 -3.05	75.78 0.42 -4.56	60.15 -0.06 -2.71	49.97 0.24 -1.76	43.93 0.04 -0.52	42.38 1.05 -0.91
STILLWATER___SOLAR 323814	33.62 1.21 0.24	31.73 1.02 0.13	30.06 0.99 0.00	28.76 1.00 0.00	30.02 1.04 0.00	32.38 1.19 0.14	40.21 1.42 0.61	45.67 1.79 0.70	42.81 1.16 1.20	39.33 0.84 1.57	37.72 0.42 0.71	36.98 0.34 0.79	39.53 0.12 0.95	41.25 0.33 1.11	43.11 0.48 1.20	44.50 0.87 2.12	48.08 1.35 1.55	74.42 1.81 -2.74	74.84 2.29 -2.91	77.27 2.48 -4.01	57.87 1.84 1.47	48.21 1.53 1.29	43.70 1.26 0.93	40.56 0.89 0.74
STONY___BROOK 24151	34.83 1.96 -0.23	32.42 1.45 -0.13	30.11 1.04 0.00	28.68 0.91 0.00	30.06 1.07 0.00	32.84 1.38 -0.13	42.16 2.17 -0.59	46.85 1.60 -0.66	45.83 1.84 -1.14	44.29 2.73 -1.51	41.95 3.27 -0.68	41.70 3.52 -0.75	44.26 2.99 -0.91	45.77 2.69 -1.06	47.61 2.63 -1.15	45.84 2.47 2.38	52.37 2.61 -1.48	65.98 2.38 6.26	73.88 1.88 -2.37	62.57 1.63 9.85	48.48 1.44 10.46	45.68 1.01 3.29	44.63 0.78 -0.48	42.46 1.33 -0.71
STURGEON_POOL_HYD 23609	34.36 1.60 -0.11	32.35 1.45 -0.06	30.23 1.16 0.00	28.93 1.17 0.00	30.11 1.13 0.00	32.83 1.44 -0.06	41.94 2.25 -0.28	47.54 2.63 -0.32	45.98 2.57 -0.56	43.35 2.56 -0.73	40.84 2.51 -0.33	40.45 2.66 -0.36	43.50 2.70 -0.44	45.39 2.86 -0.51	47.55 3.16 -0.56	49.94 3.20 -0.98	52.48 3.48 -0.72	75.17 3.98 -1.33	74.40 3.62 -1.15	75.45 3.33 -1.33	61.00 2.82 -0.68	50.77 2.21 -0.60	45.84 2.04 -0.43	42.42 1.66 -0.34



ST_LAW_115_BK7_LBMP 345037	25.34 -0.36 6.95	23.33 -0.37 7.14	21.39 -0.35 7.33	24.29 -0.33 3.14	25.08 -0.35 3.56	25.29 -0.41 5.63	32.72 -0.39 6.30	38.41 -0.45 5.73	39.97 -0.26 2.62	39.55 -0.20 0.31	37.78 -0.23 0.00	36.23 -0.34 0.85	40.12 -0.24 0.00	41.68 -0.34 0.00	43.44 -0.40 0.00	45.20 -0.55 0.00	47.75 -0.53 0.00	68.87 0.14 1.13	67.05 0.28 2.86	68.34 0.28 2.74	53.50 0.29 4.29	42.94 0.24 5.27	37.92 0.22 5.66	38.17 0.24 2.49
ST_LAW_115_BK8_LBMP 345038	25.34 -0.36 6.95	23.33 -0.37 7.14	21.39 -0.35 7.33	24.29 -0.33 3.14	25.08 -0.35 3.56	25.29 -0.41 5.63	32.72 -0.39 6.30	38.41 -0.45 5.73	39.97 -0.26 2.62	39.55 -0.20 0.31	37.78 -0.23 0.00	36.23 -0.34 0.85	40.12 -0.24 0.00	41.68 -0.34 0.00	43.44 -0.40 0.00	45.20 -0.55 0.00	47.75 -0.53 0.00	68.87 0.14 1.13	67.05 0.28 2.86	68.34 0.28 2.74	53.50 0.29 4.29	42.94 0.24 5.27	37.92 0.22 5.66	38.17 0.24 2.49
ST_LAW_230_BK5_LBMP 345035	28.25 -0.33 4.08	26.32 -0.34 4.19	24.45 -0.32 4.30	25.62 -0.30 1.84	26.55 -0.35 2.09	27.65 -0.37 3.30	35.32 -0.39 3.69	40.78 -0.45 3.36	41.05 -0.26 1.54	39.68 -0.20 0.18	37.78 -0.23 0.00	36.59 -0.34 0.50	40.12 -0.24 0.00	41.68 -0.34 0.00	43.48 -0.35 0.00	45.25 -0.50 0.00	47.75 -0.53 0.00	69.34 0.14 0.66	68.16 0.21 1.68	69.40 0.21 1.61	55.21 0.23 2.52	45.07 0.19 3.09	40.22 0.17 3.32	39.16 0.20 1.46
ST_LAW_230_BK6_LBMP 345036	28.25 -0.33 4.08	26.32 -0.34 4.19	24.45 -0.32 4.30	25.62 -0.30 1.84	26.55 -0.35 2.09	27.65 -0.37 3.30	35.32 -0.39 3.69	40.78 -0.45 3.36	41.05 -0.26 1.54	39.68 -0.20 0.18	37.78 -0.23 0.00	36.59 -0.34 0.50	40.12 -0.24 0.00	41.68 -0.34 0.00	43.48 -0.35 0.00	45.25 -0.50 0.00	47.75 -0.53 0.00	69.34 0.14 0.66	68.16 0.21 1.68	69.40 0.21 1.61	55.21 0.23 2.52	45.07 0.19 3.09	40.22 0.17 3.32	39.16 0.20 1.46
SUGRLOAF_69_KV_LOAD_REV_LBMP_G 345026	34.01 1.18 -0.19	32.00 1.05 -0.10	29.97 0.90 0.00	28.65 0.89 0.00	29.91 0.93 0.00	32.53 1.10 -0.11	41.56 1.66 -0.49	47.15 2.01 -0.56	45.78 1.97 -0.96	43.36 2.04 -1.26	40.62 2.05 -0.56	40.30 2.25 -0.63	43.34 2.22 -0.76	45.22 2.31 -0.89	47.30 2.50 -0.96	49.97 2.52 -1.70	52.18 2.66 -1.24	74.95 2.79 -2.29	73.98 2.37 -1.99	75.29 2.19 -2.30	60.46 1.78 -1.18	50.44 1.44 -1.03	45.50 1.39 -0.74	42.10 1.09 -0.59
SWANROAD_115KV_TB1 355699	33.51 0.29 -0.56	31.78 0.49 -0.45	29.62 0.23 -0.32	28.13 0.14 -0.22	29.47 0.17 -0.31	32.15 0.34 -0.48	38.78 -1.58 -0.95	41.98 -2.90 -0.29	39.57 -3.39 -0.11	37.18 -2.88 0.00	36.28 -1.82 -0.11	35.78 -1.72 -0.07	39.68 -0.85 -0.17	41.45 -0.92 -0.35	42.59 -1.27 -0.03	44.06 -1.78 -0.10	46.31 -2.41 -0.44	64.06 -5.73 0.08	66.29 -5.57 -2.24	68.90 -5.24 -3.34	54.83 -4.66 -1.99	46.14 -3.12 -1.29	40.93 -2.82 -0.38	40.28 -0.81 -0.67
SYNERGY___BIOGAS 323694	34.68 1.47 -0.56	32.92 1.63 -0.44	30.66 1.28 -0.32	29.07 1.08 -0.22	30.54 1.25 -0.31	33.40 1.60 -0.48	40.70 0.35 -0.94	44.34 -0.54 -0.29	41.89 -1.07 -0.11	38.94 -1.12 0.00	37.69 -0.42 -0.10	37.16 -0.34 -0.07	41.17 0.65 -0.17	43.12 0.76 -0.34	44.39 0.53 -0.03	46.26 0.41 -0.10	48.96 0.24 -0.44	68.67 -1.05 0.15	71.22 -0.63 -2.22	73.97 -0.14 -3.32	58.78 -0.69 -1.97	49.01 -0.24 -1.28	43.44 -0.30 -0.37	42.21 1.13 -0.67
SYRACUSE___ENERGY_ST1 323597	35.34 0.20 -2.49	33.27 0.19 -2.24	31.20 0.17 -1.95	28.95 0.14 -1.05	30.49 0.17 -1.33	33.66 0.25 -2.09	42.81 0.08 -3.32	46.22 0.00 -1.63	43.32 -0.21 -0.69	39.83 -0.28 -0.05	38.07 -0.19 -0.26	37.63 -0.11 -0.32	40.73 -0.04 -0.41	42.83 -0.04 -0.85	43.81 -0.09 -0.06	46.03 0.05 -0.24	49.36 0.00 -1.08	72.42 -0.21 -2.77	75.42 -0.14 -5.93	79.48 0.07 -8.62	62.99 -0.06 -5.55	51.92 -0.05 -4.00	45.02 -0.17 -1.83	42.41 -0.04 -2.04
SYRACUSE___ENERGY_ST2 323598	35.34 0.20 -2.49	33.27 0.19 -2.24	31.20 0.17 -1.95	28.95 0.14 -1.05	30.49 0.17 -1.33	33.66 0.25 -2.09	42.81 0.08 -3.32	46.22 0.00 -1.63	43.32 -0.21 -0.69	39.83 -0.28 -0.05	38.07 -0.19 -0.26	37.63 -0.11 -0.32	40.73 -0.04 -0.41	42.83 -0.04 -0.85	43.81 -0.09 -0.06	46.03 0.05 -0.24	49.36 0.00 -1.08	72.42 -0.21 -2.77	75.42 -0.14 -5.93	79.48 0.07 -8.62	62.99 -0.06 -5.55	51.92 -0.05 -4.00	45.02 -0.17 -1.83	42.41 -0.04 -2.04
SYRACUSE___POWER 24017	35.06 0.10 -2.32	33.06 0.09 -2.12	31.06 0.09 -1.90	28.77 0.03 -0.98	30.27 0.06 -1.23	33.35 0.09 -1.93	42.28 -0.08 -2.95	45.93 -0.22 -1.57	43.14 -0.39 -0.67	39.71 -0.40 -0.05	37.91 -0.30 -0.21	37.46 -0.26 -0.29	40.48 -0.20 -0.33	42.54 -0.17 -0.68	43.67 -0.22 -0.05	45.80 -0.14 -0.19	49.00 -0.14 -0.86	71.21 -0.56 -1.90	74.10 -0.42 -4.89	77.55 -0.28 -7.04	61.80 -0.35 -4.64	51.13 -0.29 -3.45	44.75 -0.35 -1.73	41.92 -0.24 -1.75
TALLMAN_138KV_BK151 55660	34.19 1.34 -0.20	32.10 1.14 -0.11	30.03 0.96 0.00	28.71 0.94 0.00	30.00 1.01 0.00	32.63 1.19 -0.12	41.78 1.85 -0.52	47.46 2.27 -0.60	46.14 2.27 -1.02	43.76 2.36 -1.34	41.07 2.47 -0.60	40.75 2.66 -0.67	43.79 2.62 -0.81	45.74 2.77 -0.95	47.80 2.94 -1.03	50.44 2.88 -1.81	52.65 3.04 -1.33	75.52 3.21 -2.44	74.53 2.79 -2.12	75.79 2.55 -2.45	60.83 2.07 -1.26	50.70 1.63 -1.10	45.76 1.60 -0.79	42.30 1.25 -0.63
TEALLAVE_115KV_TB7 355573	35.12 0.10 -2.37	33.14 0.09 -2.20	31.17 0.09 -2.02	28.83 0.06 -1.01	30.32 0.09 -1.25	33.39 0.09 -1.97	42.20 -0.12 -2.91	45.97 -0.27 -1.65	43.13 -0.43 -0.71	39.68 -0.44 -0.06	37.85 -0.34 -0.19	37.42 -0.30 -0.30	40.45 -0.20 -0.29	42.42 -0.21 -0.61	43.62 -0.26 -0.05	45.78 -0.14 -0.17	48.86 -0.19 -0.77	70.85 -0.63 -1.61	73.57 -0.56 -4.50	76.85 -0.35 -6.42	61.44 -0.40 -4.34	50.94 -0.34 -3.31	44.72 -0.43 -1.79	41.80 -0.28 -1.67
TELGRAPH_34_KV_EAST 80808	34.12 0.91 -0.56	32.40 1.11 -0.45	30.17 0.78 -0.32	28.62 0.64 -0.22	30.02 0.72 -0.31	32.81 1.00 -0.48	39.88 -0.47 -0.94	43.32 -1.56 -0.29	40.90 -2.06 -0.11	38.22 -1.84 0.00	37.12 -0.99 -0.11	36.60 -0.90 -0.07	40.56 0.04 -0.17	42.41 0.04 -0.35	43.64 -0.22 -0.03	45.34 -0.50 -0.10	47.80 -0.92 -0.44	66.66 -3.07 0.13	69.00 -2.85 -2.23	71.64 -2.48 -3.33	57.00 -2.47 -1.98	47.72 -1.53 -1.28	42.27 -1.47 -0.38	41.32 0.24 -0.67
TEMPLE___115KV_TB 2 55572	35.08 0.10 -2.34	33.10 0.09 -2.17	31.13 0.09 -1.98	28.82 0.06 -1.00	30.30 0.09 -1.23	33.39 0.13 -1.94	42.17 -0.12 -2.88	45.94 -0.27 -1.62	43.12 -0.43 -0.70	39.68 -0.44 -0.06	37.85 -0.34 -0.19	37.46 -0.26 -0.29	40.45 -0.20 -0.29	42.47 -0.17 -0.61	43.62 -0.26 -0.05	45.78 -0.14 -0.17	48.86 -0.19 -0.77	70.83 -0.63 -1.60	73.63 -0.49 -4.49	76.85 -0.35 -6.41	61.42 -0.40 -4.32	50.92 -0.34 -3.29	44.74 -0.39 -1.76	41.79 -0.28 -1.66
TIANA___69_KV_BK 1 55817	34.73 1.86 -0.23	32.33 1.36 -0.13	30.11 1.05 0.00	28.65 0.89 0.00	30.00 1.01 0.00	32.77 1.32 -0.13	42.09 2.09 -0.59	46.90 1.65 -0.66	45.93 1.93 -1.15	44.13 2.56 -1.51	41.91 3.23 -0.68	41.89 3.71 -0.75	44.82 3.55 -0.91	46.44 3.36 -1.06	48.27 3.29 -1.15	45.92 2.56 2.40	52.76 2.99 -1.48	66.57 3.00 6.30	74.57 2.58 -2.37	63.08 2.19 9.91	48.71 1.73 10.51	45.76 1.10 3.31	44.71 0.87 -0.48	42.46 1.33 -0.71



TILDEN___115KV_TB1 80814	35.06 0.10 -2.32	33.06 0.09 -2.12	31.06 0.09 -1.90	28.77 0.03 -0.98	30.27 0.06 -1.23	33.35 0.09 -1.93	42.28 -0.08 -2.95	45.93 -0.22 -1.57	43.14 -0.39 -0.67	39.71 -0.40 -0.05	37.91 -0.30 -0.21	37.46 -0.26 -0.29	40.48 -0.20 -0.33	42.54 -0.17 -0.68	43.67 -0.22 -0.05	45.80 -0.14 -0.19	49.00 -0.14 -0.86	71.21 -0.56 -1.90	74.10 -0.42 -4.89	77.55 -0.28 -7.04	61.80 -0.35 -4.64	51.13 -0.29 -3.45	44.75 -0.35 -1.73	41.92 -0.24 -1.75
TRIGEN___CC 323695	34.64 1.76 -0.23	32.33 1.36 -0.13	30.14 1.08 0.00	28.74 0.97 0.00	30.05 1.07 0.00	32.81 1.35 -0.13	42.05 2.05 -0.59	47.17 1.92 -0.67	46.10 2.10 -1.15	44.13 2.56 -1.51	41.72 3.04 -0.68	41.62 3.44 -0.75	44.46 3.19 -0.91	46.15 3.07 -1.06	48.14 3.16 -1.15	49.39 2.65 -0.98	52.76 2.99 -1.49	73.54 3.07 -0.60	74.58 2.58 -2.38	72.81 2.27 0.25	57.86 1.78 1.42	49.32 1.20 -0.15	45.33 1.17 -0.79	42.54 1.41 -0.71
TRINITY__115KV__4 BK 55933	32.64 0.16 0.17	30.84 0.09 0.09	29.24 0.17 0.00	28.01 0.25 0.00	29.16 0.17 0.00	31.44 0.22 0.10	39.28 0.32 0.44	44.62 0.54 0.50	42.41 0.43 0.86	39.33 0.40 1.13	37.65 0.15 0.51	37.05 0.19 0.57	39.51 -0.16 0.69	41.18 -0.04 0.80	43.01 0.04 0.87	44.40 0.18 1.53	47.40 0.24 1.12	62.96 -0.21 6.69	63.10 -0.28 6.25	62.61 -0.42 7.76	56.15 -0.29 1.06	46.75 -0.29 0.93	42.39 -0.30 0.67	39.40 -0.48 0.53
UNION___PROCESSING_DRP 323587	33.76 0.56 -0.55	31.96 0.68 -0.44	29.85 0.47 -0.31	28.34 0.36 -0.22	29.72 0.43 -0.30	32.43 0.63 -0.47	40.18 -0.16 -0.93	44.25 -0.62 -0.29	42.06 -0.90 -0.11	39.14 -0.92 0.00	37.61 -0.49 -0.10	37.09 -0.41 -0.07	40.72 0.20 -0.16	42.61 0.25 -0.34	43.99 0.13 -0.03	45.94 0.09 -0.09	48.71 0.00 -0.43	68.78 -0.84 0.24	71.12 -0.70 -2.19	73.71 -0.35 -3.28	58.81 -0.63 -1.95	48.85 -0.38 -1.26	43.30 -0.43 -0.37	41.31 0.24 -0.66
UPPER HUDSON___HYD 24058	33.56 1.14 0.23	31.61 0.90 0.13	29.97 0.90 0.00	28.65 0.89 0.00	29.94 0.96 0.00	32.32 1.13 0.13	40.00 1.18 0.59	45.43 1.52 0.67	42.25 0.56 1.16	38.71 0.16 1.51	36.98 -0.34 0.68	36.18 -0.49 0.76	38.63 -0.81 0.92	40.41 -0.55 1.07	42.32 -0.35 1.16	43.84 0.14 2.05	47.60 0.82 1.50	73.57 1.32 -2.38	74.34 2.16 -2.55	76.73 2.41 -3.53	57.75 1.67 1.42	48.12 1.39 1.24	43.56 1.08 0.89	40.27 0.57 0.72
UPPER RAQUET___HYD 24056	78.61 0.16 -45.80	77.99 0.12 -47.02	77.40 0.12 -48.21	48.55 0.08 -20.70	52.51 0.09 -23.44	68.54 0.13 -37.09	81.43 0.35 -41.67	82.64 0.36 -37.70	60.53 0.43 -17.25	42.42 0.32 -2.04	38.27 0.23 -0.04	43.16 0.11 -5.63	40.67 0.24 -0.07	42.28 0.13 -0.14	43.89 0.04 -0.01	45.74 -0.05 -0.04	48.45 0.00 -0.17	79.02 1.32 -7.83	91.01 1.74 -19.64	91.97 1.91 -19.27	87.98 1.55 -28.93	84.31 1.30 -35.04	81.77 1.13 -37.28	58.09 1.09 -16.58
VALLEY44_115KV_TB2 355964	34.09 0.85 -0.59	32.08 0.77 -0.47	30.01 0.61 -0.34	28.41 0.42 -0.23	29.92 0.61 -0.33	32.77 0.94 -0.51	39.93 -0.47 -0.99	43.51 -1.38 -0.31	40.82 -2.14 -0.12	38.34 -1.72 0.00	37.39 -0.72 -0.11	36.83 -0.67 -0.08	40.65 0.12 -0.18	42.43 0.04 -0.36	43.51 -0.35 -0.03	45.35 -0.50 -0.10	47.34 -1.40 -0.46	65.65 -4.33 -0.11	67.66 -4.32 -2.35	70.41 -3.89 -3.51	56.08 -3.51 -2.09	47.16 -2.16 -1.36	42.07 -1.69 -0.40	41.00 -0.12 -0.70
VALLEY___115KV_TB 1-4 80826	33.90 0.16 -1.09	32.18 0.22 -1.12	30.42 0.20 -1.15	28.43 0.17 -0.49	29.72 0.17 -0.56	32.46 0.25 -0.89	40.79 0.39 -0.99	45.89 0.40 -0.90	43.52 0.26 -0.41	40.23 0.12 -0.05	38.08 0.08 0.00	37.64 0.07 -0.13	40.36 0.00 0.00	41.98 -0.04 0.00	43.79 -0.04 0.00	45.80 0.05 0.00	48.33 0.05 0.00	69.83 -0.21 -0.18	70.01 -0.07 -0.45	71.15 -0.07 -0.43	58.18 0.00 -0.68	48.84 0.05 -0.83	44.26 0.00 -0.89	40.81 0.00 -0.39
VINEGAR_115_KV_917_CH_LD_REV_LBMP_E 345011	34.35 1.34 -0.36	32.52 1.39 -0.29	30.61 1.34 -0.21	29.10 1.19 -0.14	30.46 1.28 -0.20	33.05 1.41 -0.31	41.83 1.81 -0.61	46.78 2.01 -0.19	44.51 1.59 -0.07	41.26 1.20 0.00	39.25 1.18 -0.07	38.67 1.20 -0.05	41.72 1.25 -0.11	43.55 1.30 -0.22	45.25 1.40 -0.02	47.51 1.69 -0.06	50.40 1.83 -0.28	72.71 2.17 -0.68	73.50 2.44 -1.44	75.56 2.62 -2.15	60.96 2.19 -1.28	50.67 1.87 -0.83	45.26 1.65 -0.24	42.34 1.50 -0.43
VISCHER___FERRY HYD 24020	33.18 0.82 0.28	31.37 0.68 0.16	29.71 0.64 0.00	28.46 0.69 0.00	29.68 0.69 0.00	31.94 0.78 0.17	39.78 1.10 0.73	45.14 1.38 0.83	42.54 1.11 1.43	39.20 1.00 1.87	37.85 0.68 0.84	37.20 0.71 0.93	39.75 0.52 1.13	41.34 0.63 1.32	43.15 0.74 1.43	44.28 1.05 2.52	47.74 1.30 1.85	77.10 1.40 -5.84	77.04 1.46 -5.95	80.14 1.42 -7.93	56.84 1.09 1.75	47.30 0.86 1.53	42.96 0.69 1.10	39.98 0.45 0.88
V_A_10_SYNC_DSASP 323832	33.71 0.52 -0.54	31.95 0.68 -0.42	29.81 0.44 -0.30	28.28 0.31 -0.21	29.63 0.35 -0.30	32.32 0.53 -0.46	39.28 -1.02 -0.90	42.90 -1.96 -0.28	40.55 -2.40 -0.10	38.02 -2.04 0.00	36.96 -1.14 -0.10	36.45 -1.05 -0.07	40.27 -0.24 -0.16	42.06 -0.29 -0.33	43.29 -0.57 -0.03	44.88 -0.96 -0.09	47.30 -1.40 -0.42	65.80 -3.84 0.22	67.99 -3.76 -2.12	70.49 -3.47 -3.17	56.28 -3.11 -1.88	47.18 -2.01 -1.22	41.86 -1.86 -0.36	40.73 -0.32 -0.64
V_CMM_10_SYNC_DSASP 323787	25.50 -0.20 6.95	23.48 -0.22 7.14	21.53 -0.20 7.33	24.43 -0.19 3.14	25.20 -0.23 3.56	25.45 -0.25 5.63	32.87 -0.24 6.30	38.59 -0.27 5.73	40.14 -0.09 2.62	39.71 -0.04 0.31	37.93 -0.08 0.00	36.39 -0.19 0.85	40.28 -0.08 0.00	41.85 -0.17 0.00	43.61 -0.22 0.00	45.38 -0.37 0.00	47.94 -0.34 0.00	69.29 0.56 1.13	67.39 0.63 2.86	68.76 0.71 2.74	53.78 0.58 4.29	43.18 0.48 5.27	38.14 0.43 5.66	38.37 0.44 2.49
V_CMP_10_SYNC_DSASP 323788	37.39 1.27 -3.47	35.42 1.02 -3.56	33.57 0.84 -3.66	30.03 0.69 -1.57	31.42 0.67 -1.77	34.76 0.63 -2.81	43.57 1.02 -3.14	48.56 1.12 -2.86	45.36 1.20 -1.31	41.58 1.36 -0.16	39.22 1.22 0.00	39.01 1.16 -0.43	41.65 1.29 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.11 -0.64 0.00	47.36 -0.92 0.00	70.92 0.49 -0.56	71.96 0.90 -1.43	73.15 0.99 -1.37	60.39 0.75 -2.14	51.17 0.58 -2.63	47.15 0.95 -2.83	43.39 1.74 -1.24
V_D_10_SYNC_DSASP 323841	99.05 0.00 -66.40	99.06 -0.03 -68.24	99.06 -0.06 -70.05	57.74 -0.06 -30.03	62.89 -0.06 -33.97	85.03 -0.06 -53.76	99.58 0.00 -60.17	99.34 0.00 -54.76	68.14 0.22 -25.07	43.27 0.24 -2.97	38.19 0.19 0.00	45.62 0.04 -8.15	40.56 0.20 0.00	42.15 0.13 0.00	43.92 0.09 0.00	45.71 -0.05 0.00	48.28 0.00 0.00	81.71 1.05 -10.80	98.15 1.18 -27.34	98.16 1.20 -26.16	99.49 0.98 -41.01	99.15 0.86 -50.32	98.24 0.78 -54.09	65.00 0.81 -23.78
V_E_10_SYNC_DSASP 323830	35.77 2.42 -0.71	33.84 2.44 -0.56	31.82 2.35 -0.40	30.07 2.03 -0.28	31.61 2.23 -0.39	34.69 2.76 -0.61	44.10 3.51 -1.19	48.70 3.75 -0.37	45.81 2.83 -0.14	41.70 1.64 0.00	39.58 1.44 -0.13	38.83 1.31 -0.09	42.06 1.49 -0.21	43.97 1.51 -0.44	45.40 1.53 -0.03	48.11 2.24 -0.12	51.49 2.65 -0.55	75.46 4.26 -1.33	78.08 5.64 -2.81	81.43 6.44 -4.20	65.11 5.12 -2.50	53.66 4.07 -1.62	47.23 3.38 -0.47	44.37 3.11 -0.84



V_F_30_NSYNC___DSASP 323816	33.69 1.27 0.23	31.80 1.08 0.13	30.11 1.04 0.00	28.79 1.03 0.00	30.08 1.10 0.00	32.41 1.22 0.13	40.28 1.46 0.59	45.75 1.83 0.67	42.90 1.20 1.15	39.44 0.88 1.50	37.82 0.49 0.68	37.09 0.41 0.75	39.65 0.20 0.91	41.34 0.38 1.06	43.25 0.57 1.15	44.68 0.96 2.03	48.24 1.45 1.49	74.13 1.95 -2.31	74.55 2.44 -2.48	76.86 2.62 -3.45	58.05 1.96 1.41	48.37 1.63 1.23	43.78 1.30 0.89	40.63 0.93 0.71
V_F_30_SYNC_DSASP 323786	32.73 0.26 0.17	30.93 0.19 0.10	29.33 0.26 0.00	28.10 0.33 0.00	29.24 0.26 0.00	31.54 0.31 0.10	39.35 0.39 0.45	44.74 0.67 0.52	42.48 0.51 0.89	39.34 0.44 1.16	37.67 0.19 0.52	37.07 0.22 0.58	39.53 -0.12 0.70	41.20 0.00 0.82	43.07 0.13 0.89	44.41 0.23 1.57	47.47 0.34 1.15	63.66 -0.07 6.13	63.92 0.00 5.71	63.59 -0.14 7.06	56.30 -0.12 1.09	46.92 -0.10 0.95	42.55 -0.13 0.69	39.54 -0.32 0.55
V_XM_10_SYNC_DSASP 323789	37.39 1.27 -3.47	35.42 1.02 -3.56	33.57 0.84 -3.66	30.03 0.69 -1.57	31.42 0.67 -1.77	34.76 0.63 -2.81	43.57 1.02 -3.14	48.56 1.12 -2.86	45.36 1.20 -1.31	41.58 1.36 -0.16	39.22 1.22 0.00	39.01 1.16 -0.43	41.65 1.29 0.00	43.03 1.01 0.00	44.62 0.79 0.00	45.11 -0.64 0.00	47.36 -0.92 0.00	70.92 0.49 -0.56	71.96 0.90 -1.43	73.15 0.99 -1.37	60.39 0.75 -2.14	51.17 0.58 -2.63	47.15 0.95 -2.83	43.39 1.74 -1.24
W.BABYLN_69_KV_BK1 56697	35.13 2.25 -0.23	32.70 1.73 -0.13	30.43 1.37 0.00	28.99 1.22 0.00	30.32 1.33 0.00	33.12 1.66 -0.13	42.52 2.52 -0.59	47.44 2.18 -0.66	46.40 2.40 -1.15	44.53 2.96 -1.51	42.25 3.57 -0.68	42.22 4.04 -0.75	45.10 3.83 -0.91	46.74 3.66 -1.06	48.58 3.59 -1.15	46.71 2.84 1.88	53.00 3.23 -1.48	67.97 3.35 5.25	74.85 2.85 -2.37	64.90 2.55 8.44	50.39 2.01 9.13	46.62 1.44 2.78	45.32 1.43 -0.52	42.99 1.86 -0.71
W.NYACK_69_KV_BK 521_REV_LBMP_G 345027	34.36 1.50 -0.21	32.28 1.33 -0.11	30.20 1.13 0.00	28.87 1.11 0.00	30.14 1.16 0.00	32.82 1.38 -0.12	42.03 2.09 -0.54	47.74 2.54 -0.61	46.43 2.53 -1.05	44.04 2.60 -1.37	41.28 2.66 -0.62	40.99 2.88 -0.69	44.05 2.87 -0.83	46.02 3.03 -0.97	48.13 3.24 -1.05	50.81 3.20 -1.85	53.02 3.38 -1.36	76.07 3.70 -2.50	75.07 3.27 -2.17	76.28 2.97 -2.51	61.26 2.47 -1.29	51.06 1.97 -1.12	46.00 1.82 -0.81	42.56 1.50 -0.65
W49TH_ST_138_KV_38M43_REV_LBMP_J 345008	34.51 1.63 -0.23	32.39 1.42 -0.13	30.23 1.16 0.00	28.93 1.17 0.00	30.20 1.22 0.00	32.90 1.44 -0.13	42.36 2.36 -0.59	48.11 2.85 -0.67	46.96 2.96 -1.15	44.61 3.04 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.76 3.77 -1.16	51.45 3.66 -2.04	53.69 3.91 -1.50	77.08 4.47 -2.75	75.91 3.90 -2.39	77.09 3.54 -2.76	61.73 2.82 -1.41	51.27 2.06 -1.24	46.25 1.99 -0.89	42.78 1.66 -0.71
W50THST__13_KV_LOAD 356117	34.70 1.83 -0.23	32.54 1.57 -0.13	30.38 1.31 0.00	29.07 1.30 0.00	30.32 1.33 0.00	33.09 1.63 -0.13	42.60 2.60 -0.59	48.42 3.17 -0.67	47.26 3.26 -1.15	44.89 3.33 -1.51	42.14 3.46 -0.68	41.92 3.74 -0.75	45.02 3.75 -0.91	47.00 3.91 -1.07	49.11 4.12 -1.16	51.81 4.03 -2.04	54.08 4.30 -1.50	77.64 5.03 -2.75	76.33 4.32 -2.39	77.59 4.04 -2.76	62.08 3.16 -1.41	51.55 2.35 -1.24	46.51 2.26 -0.89	43.03 1.90 -0.71
WADING RIVER_IC_1 23522	34.41 1.53 -0.23	32.02 1.05 -0.13	29.74 0.67 0.00	28.32 0.56 0.00	29.68 0.69 0.00	32.46 1.00 -0.13	41.69 1.69 -0.59	46.36 1.12 -0.66	45.36 1.37 -1.14	43.77 2.20 -1.51	41.45 2.77 -0.68	41.25 3.07 -0.75	43.77 2.50 -0.91	45.27 2.18 -1.06	47.09 2.10 -1.15	45.27 1.92 2.40	51.79 2.03 -1.48	65.45 1.89 6.30	73.39 1.39 -2.37	62.01 1.13 9.91	47.79 0.80 10.52	45.08 0.43 3.31	44.11 0.26 -0.48	41.94 0.81 -0.71
WADING RIVER_IC_2 23547	34.41 1.53 -0.23	32.02 1.05 -0.13	29.74 0.67 0.00	28.32 0.56 0.00	29.68 0.69 0.00	32.46 1.00 -0.13	41.69 1.69 -0.59	46.36 1.12 -0.66	45.36 1.37 -1.14	43.77 2.20 -1.51	41.45 2.77 -0.68	41.25 3.07 -0.75	43.77 2.50 -0.91	45.27 2.18 -1.06	47.09 2.10 -1.15	45.27 1.92 2.40	51.79 2.03 -1.48	65.45 1.89 6.30	73.39 1.39 -2.37	62.01 1.13 9.91	47.79 0.80 10.52	45.08 0.43 3.31	44.11 0.26 -0.48	41.94 0.81 -0.71
WADING RIVER_IC_3 23601	34.41 1.53 -0.23	32.02 1.05 -0.13	29.74 0.67 0.00	28.32 0.56 0.00	29.68 0.69 0.00	32.46 1.00 -0.13	41.69 1.69 -0.59	46.36 1.12 -0.66	45.36 1.37 -1.14	43.77 2.20 -1.51	41.45 2.77 -0.68	41.25 3.07 -0.75	43.77 2.50 -0.91	45.27 2.18 -1.06	47.09 2.10 -1.15	45.27 1.92 2.40	51.79 2.03 -1.48	65.45 1.89 6.30	73.39 1.39 -2.37	62.01 1.13 9.91	47.79 0.80 10.52	45.08 0.43 3.31	44.11 0.26 -0.48	41.94 0.81 -0.71
WALDENNY_12_KV_BK2 80841	34.30 1.08 -0.58	32.47 1.17 -0.46	30.30 0.90 -0.33	28.71 0.72 -0.23	30.11 0.81 -0.32	32.95 1.13 -0.50	39.94 -0.43 -0.97	43.41 -1.47 -0.30	40.86 -2.10 -0.11	38.38 -1.68 0.00	37.43 -0.68 -0.11	36.90 -0.60 -0.07	40.89 0.36 -0.17	42.71 0.34 -0.35	43.86 0.00 -0.03	45.53 -0.32 -0.10	47.77 -0.97 -0.45	66.38 -3.49 -0.01	68.50 -3.41 -2.29	71.17 -3.04 -3.42	56.66 -2.88 -2.03	47.51 -1.77 -1.32	42.15 -1.60 -0.39	41.30 0.20 -0.69
WALDEN__HYDRO 24148	34.16 1.34 -0.18	32.14 1.20 -0.10	30.11 1.05 0.00	28.79 1.03 0.00	30.03 1.04 0.00	32.65 1.22 -0.10	41.72 1.85 -0.46	47.34 2.23 -0.53	45.89 2.14 -0.90	43.44 2.20 -1.18	40.74 2.20 -0.53	40.38 2.36 -0.59	43.41 2.34 -0.72	45.34 2.48 -0.83	47.46 2.72 -0.91	50.05 2.70 -1.60	52.35 2.90 -1.17	75.16 3.14 -2.15	74.35 2.85 -1.87	75.50 2.55 -2.16	60.74 2.13 -1.11	50.61 1.68 -0.97	45.67 1.60 -0.70	42.27 1.29 -0.56
WARRENSBURG____ 23737	33.56 1.14 0.23	31.61 0.89 0.13	30.00 0.93 0.00	28.68 0.92 0.00	29.97 0.99 0.00	32.32 1.13 0.13	40.00 1.18 0.59	45.43 1.52 0.67	42.34 0.64 1.16	38.79 0.24 1.51	37.02 -0.30 0.68	36.26 -0.41 0.76	38.67 -0.77 0.92	40.45 -0.50 1.07	42.37 -0.31 1.16	43.84 0.14 2.05	47.61 0.82 1.50	73.57 1.33 -2.38	74.34 2.16 -2.55	76.73 2.41 -3.53	57.75 1.67 1.42	48.12 1.39 1.24	43.56 1.08 0.89	40.31 0.61 0.72
WATERSIDE____6 8 9 23538	34.57 1.70 -0.23	32.42 1.45 -0.12	30.26 1.19 0.00	28.90 1.14 0.00	30.14 1.16 0.00	32.84 1.38 -0.13	42.24 2.25 -0.59	48.02 2.76 -0.67	46.91 2.91 -1.15	44.57 3.00 -1.51	41.87 3.19 -0.68	41.62 3.44 -0.75	44.70 3.43 -0.91	46.66 3.57 -1.07	48.76 3.77 -1.16	51.36 3.57 -2.04	53.64 3.86 -1.50	77.01 4.40 -2.75	75.77 3.76 -2.39	76.95 3.40 -2.76	61.56 2.65 -1.41	51.12 1.92 -1.23	46.21 1.95 -0.89	42.82 1.70 -0.71
WATKINRD_115KV_LN8_ILLION 55919	33.90 0.16 -1.09	32.15 0.19 -1.12	30.40 0.17 -1.15	28.40 0.14 -0.49	29.69 0.14 -0.56	32.43 0.22 -0.89	40.71 0.32 -0.99	45.85 0.36 -0.90	43.48 0.21 -0.41	40.23 0.12 -0.05	38.08 0.08 0.00	37.64 0.07 -0.13	40.40 0.04 0.00	42.02 0.00 0.00	43.83 0.00 0.00	45.84 0.09 0.00	48.38 0.10 0.00	69.97 -0.07 -0.18	70.08 0.00 -0.45	71.22 0.00 -0.43	58.23 0.06 -0.68	48.84 0.05 -0.83	44.30 0.04 -0.89	40.81 0.00 -0.39



WDELAWARE___HYD 323627	34.34 1.57 -0.13	32.39 1.48 -0.07	30.29 1.22 0.00	29.04 1.28 0.00	30.23 1.25 0.00	32.87 1.47 -0.08	41.99 2.25 -0.33	47.55 2.59 -0.38	45.77 2.27 -0.65	43.07 2.16 -0.85	40.43 2.05 -0.38	40.02 2.17 -0.42	43.05 2.18 -0.51	45.06 2.44 -0.60	47.20 2.72 -0.65	49.83 2.93 -1.15	52.31 3.19 -0.84	75.18 3.77 -1.54	74.59 3.62 -1.34	75.74 3.40 -1.55	61.17 2.87 -0.80	50.96 2.30 -0.69	45.91 2.04 -0.50	42.43 1.62 -0.40
WEST BABYLON___IC 23714	35.13 2.25 -0.23	32.70 1.73 -0.13	30.43 1.37 0.00	28.99 1.22 0.00	30.32 1.33 0.00	33.12 1.66 -0.13	42.52 2.52 -0.59	47.44 2.18 -0.66	46.40 2.40 -1.15	44.53 2.96 -1.51	42.25 3.57 -0.68	42.22 4.04 -0.75	45.10 3.83 -0.91	46.74 3.66 -1.06	48.58 3.59 -1.15	46.71 2.84 1.88	53.00 3.23 -1.48	67.97 3.35 5.25	74.85 2.85 -2.37	64.90 2.55 8.44	50.39 2.01 9.13	46.62 1.44 2.78	45.32 1.43 -0.52	42.99 1.86 -0.71
WEST CANADA___HYD 24049	33.87 0.13 -1.09	32.12 0.15 -1.12	30.37 0.15 -1.15	28.40 0.14 -0.49	29.69 0.15 -0.56	32.37 0.16 -0.89	40.64 0.24 -0.99	45.76 0.27 -0.90	43.43 0.17 -0.41	40.23 0.12 -0.05	38.12 0.11 0.00	37.71 0.15 -0.13	40.44 0.08 0.00	42.11 0.08 0.00	43.97 0.13 0.00	45.93 0.18 0.00	48.48 0.19 0.00	70.11 0.07 -0.18	70.15 0.07 -0.45	71.29 0.07 -0.43	58.29 0.12 -0.68	48.84 0.05 -0.83	44.30 0.04 -0.89	40.81 0.00 -0.39
WESTERN_NY_WIND 24143	34.68 1.47 -0.56	32.92 1.63 -0.44	30.66 1.28 -0.32	29.07 1.08 -0.22	30.54 1.25 -0.31	33.37 1.57 -0.48	40.66 0.32 -0.94	44.30 -0.58 -0.29	41.84 -1.11 -0.11	38.90 -1.16 0.00	37.65 -0.46 -0.10	37.12 -0.37 -0.07	41.17 0.65 -0.17	43.08 0.71 -0.34	44.34 0.48 -0.03	46.21 0.37 -0.10	48.86 0.14 -0.44	68.61 -1.12 0.14	71.08 -0.77 -0.22	73.90 -0.21 -3.32	58.67 -0.81 -1.97	48.96 -0.29 -1.28	43.40 -0.35 -0.38	42.17 1.09 -0.67
WESTOVER___LESR 323668	34.04 0.69 -0.71	32.02 0.62 -0.56	30.08 0.61 -0.40	28.54 0.50 -0.28	29.98 0.61 -0.39	32.65 0.72 -0.61	41.03 0.43 -1.18	45.22 0.27 -0.36	42.94 -0.04 -0.14	40.02 -0.04 0.00	38.36 0.23 -0.13	37.78 0.26 -0.09	41.05 0.48 -0.21	42.96 0.50 -0.43	44.26 0.39 -0.03	46.38 0.50 -0.12	49.17 0.34 -0.55	70.56 -0.35 -1.04	72.15 -0.28 -2.80	74.98 0.00 -4.18	59.87 -0.12 -2.49	49.68 0.10 -1.61	43.93 0.09 -0.47	41.66 0.40 -0.84
WETHRSFD_WT_PWR 323626	34.29 1.01 -0.63	32.39 1.05 -0.50	30.56 1.13 -0.36	28.82 0.81 -0.25	30.14 0.81 -0.35	32.90 1.03 -0.54	40.23 -0.24 -1.05	43.89 -1.02 -0.32	41.69 -1.28 -0.12	38.98 -1.08 0.00	37.51 -0.61 -0.12	36.91 -0.60 -0.08	40.75 0.20 -0.19	42.58 0.17 -0.39	43.73 -0.13 -0.03	45.22 -0.64 -0.11	47.61 -1.16 -0.49	66.79 -3.35 -0.28	69.33 -2.79 -2.49	72.11 -2.41 -3.72	57.53 -2.18 -2.21	48.06 -1.34 -1.44	42.66 -1.13 -0.42	41.36 0.20 -0.75
WHAVSTOR_138KV_BK127 55557	34.16 1.31 -0.21	32.07 1.11 -0.12	30.03 0.96 0.00	28.71 0.94 0.00	29.97 0.99 0.00	32.64 1.19 -0.12	41.76 1.81 -0.54	47.43 2.23 -0.61	46.17 2.27 -1.05	43.80 2.36 -1.38	41.09 2.47 -0.62	40.77 2.66 -0.69	43.82 2.62 -0.83	45.77 2.77 -0.97	47.83 2.94 -1.06	50.49 2.88 -1.86	52.69 3.04 -1.36	75.59 3.21 -2.51	74.52 2.72 -2.18	75.79 2.48 -2.52	60.80 2.01 -1.29	50.68 1.58 -1.13	45.74 1.56 -0.81	42.28 1.21 -0.65
WHAVSTOR_138_KV_BK127_REV_LBMP_G 345015	34.16 1.31 -0.21	32.07 1.11 -0.12	30.03 0.96 0.00	28.71 0.94 0.00	29.97 0.99 0.00	32.64 1.19 -0.12	41.76 1.81 -0.54	47.43 2.23 -0.61	46.17 2.27 -1.05	43.80 2.36 -1.38	41.09 2.47 -0.62	40.77 2.66 -0.69	43.82 2.62 -0.83	45.77 2.77 -0.97	47.83 2.94 -1.06	50.49 2.88 -1.86	52.69 3.04 -1.36	75.59 3.21 -2.51	74.52 2.72 -2.18	75.79 2.48 -2.52	60.80 2.01 -1.29	50.68 1.58 -1.13	45.74 1.56 -0.81	42.28 1.21 -0.65
WHITEHAL_115KV_TB1 80871	34.15 1.73 0.23	32.13 1.42 0.13	30.52 1.45 0.00	29.15 1.39 0.00	30.46 1.48 0.00	32.94 1.75 0.14	40.66 1.85 0.60	46.27 2.36 0.68	42.88 1.20 1.17	39.21 0.68 1.53	37.39 0.08 0.69	36.54 -0.11 0.77	38.94 -0.48 0.93	40.85 -0.08 1.08	42.79 0.13 1.18	44.36 0.69 2.08	48.31 1.55 1.52	74.90 2.52 -2.52	75.94 3.62 -2.69	78.47 3.96 -3.71	58.94 2.88 1.44	49.11 2.40 1.26	44.32 1.86 0.91	40.94 1.25 0.73
WHITEPLN_13_KV_LOAD 356215	34.64 1.76 -0.23	32.54 1.57 -0.13	30.38 1.31 0.00	29.04 1.28 0.00	30.32 1.33 0.00	33.06 1.60 -0.13	42.56 2.56 -0.59	48.47 3.21 -0.67	47.34 3.34 -1.15	45.09 3.53 -1.51	42.25 3.57 -0.68	42.00 3.82 -0.75	45.14 3.87 -0.91	47.12 4.03 -1.07	49.29 4.30 -1.16	51.86 4.07 -2.03	54.12 4.35 -1.49	77.71 5.10 -2.74	76.47 4.46 -2.38	77.65 4.11 -2.76	62.13 3.22 -1.41	51.60 2.40 -1.23	46.51 2.26 -0.89	42.99 1.86 -0.71
WM_FLOYD_69_KV_BK2 356380	34.67 1.80 -0.23	32.26 1.30 -0.13	30.03 0.96 0.00	28.57 0.81 0.00	29.91 0.93 0.00	32.68 1.22 -0.13	42.01 2.01 -0.59	46.81 1.56 -0.66	45.80 1.80 -1.15	43.97 2.40 -1.51	41.76 3.08 -0.68	41.70 3.52 -0.75	44.58 3.31 -0.91	46.15 3.07 -1.06	47.96 2.98 -1.15	45.65 2.29 2.39	52.37 2.61 -1.48	66.10 2.52 6.28	74.02 2.02 -2.37	62.61 1.70 9.89	48.39 1.38 10.49	45.57 0.91 3.30	44.58 0.74 -0.48	42.42 1.29 -0.71
WOODARD___115KV_TB2 355635	35.15 0.03 -2.47	33.13 0.03 -2.26	31.12 0.03 -2.02	28.81 0.00 -1.05	30.32 0.03 -1.31	33.45 0.06 -2.06	42.41 -0.16 -3.15	45.99 -0.27 -1.67	43.14 -0.43 -0.72	39.68 -0.44 -0.06	37.88 -0.34 -0.22	37.44 -0.30 -0.31	40.47 -0.24 -0.35	42.50 -0.25 -0.73	43.58 -0.31 -0.06	45.77 -0.18 -0.20	48.97 -0.24 -0.93	71.68 -0.63 -2.44	74.32 -0.56 -5.24	77.99 -0.35 -7.56	62.08 -0.40 -4.98	51.32 -0.34 -3.69	44.77 -0.43 -1.84	42.00 -0.28 -1.87
WOODMERE_69_KV_BK1 55827	35.32 2.45 -0.23	32.94 1.97 -0.13	30.70 1.63 0.00	29.24 1.47 0.00	30.58 1.59 0.00	33.37 1.91 -0.13	42.76 2.76 -0.59	47.97 2.72 -0.66	46.87 2.87 -1.15	44.93 3.37 -1.51	42.56 3.88 -0.68	42.48 4.30 -0.75	45.47 4.20 -0.91	47.20 4.12 -1.06	49.24 4.25 -1.15	51.13 3.80 -1.58	54.07 4.30 -1.49	76.64 4.96 -1.81	76.46 4.46 -2.38	76.50 4.25 -1.46	60.96 3.28 -0.19	51.13 2.40 -0.76	46.42 2.21 -0.84	43.43 2.30 -0.71
YORK___WARBASSE 23770	34.84 1.96 -0.23	32.64 1.67 -0.13	30.47 1.40 -0.01	28.96 1.19 0.00	30.26 1.28 0.00	32.93 1.47 -0.13	42.44 2.44 -0.59	48.29 3.03 -0.67	47.22 3.21 -1.16	44.86 3.28 -1.52	42.15 3.46 -0.69	41.89 3.71 -0.76	44.95 3.67 -0.92	46.92 3.82 -1.08	49.08 4.08 -1.17	51.69 3.89 -2.05	53.99 4.20 -1.51	77.51 4.89 -2.75	76.26 4.25 -2.39	77.38 3.82 -2.77	61.96 3.05 -1.41	51.47 2.25 -1.24	46.52 2.26 -0.90	43.07 1.94 -0.71