

# Day Ahead Market Generator LBMP

		--- LBMP \$								--- Marginal Cost of Losses								--- Marginal Cost of Congestion								09/26/2025		
Generator Data																												
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	EDT	45.31	39.38	35.49	33.46	34.77	37.30	46.67	50.33	52.42	49.52	47.15	46.39	45.65	48.34	49.76	51.68	58.73	69.66	70.74	61.42	51.29	48.35	47.66	44.57			
		2.28	1.99	1.71	1.46	1.39	1.59	1.94	2.15	2.25	2.34	2.74	2.85	3.00	3.05	3.22	3.48	3.80	4.20	4.05	3.29	2.24	2.41	2.35	2.20			
		-0.90	-0.54	-0.29	-0.18	-0.24	-0.40	-0.61	-0.32	-1.17	-1.24	-1.00	-0.96	-0.94	-1.08	-1.16	-1.24	-1.42	-0.80	-1.40	-0.50	-0.40	-0.55	-0.99	-0.81			
74TH STREET_GT_1 24260	EDT	45.27	39.34	35.46	33.43	34.73	37.23	46.54	50.18	52.32	49.43	47.02	46.27	45.57	48.21	49.63	51.54	58.57	69.47	70.61	61.30	51.19	48.26	47.57	44.52			
		2.23	1.95	1.67	1.43	1.36	1.52	1.81	2.01	2.16	2.25	2.60	2.73	2.92	2.92	3.09	3.33	3.64	4.01	3.92	3.17	2.14	2.31	2.26	2.16			
		-0.90	-0.54	-0.29	-0.18	-0.24	-0.40	-0.61	-0.32	-1.17	-1.24	-1.00	-0.96	-0.94	-1.08	-1.16	-1.24	-1.42	-0.80	-1.40	-0.50	-0.40	-0.55	-0.99	-0.81			
74TH STREET_GT_2 24261	EDT	45.27	39.34	35.46	33.43	34.73	37.23	46.54	50.18	52.32	49.43	47.02	46.27	45.57	48.21	49.63	51.54	58.57	69.47	70.61	61.30	51.19	48.26	47.57	44.52			
		2.23	1.95	1.67	1.43	1.36	1.52	1.81	2.01	2.16	2.25	2.60	2.73	2.92	2.92	3.09	3.33	3.64	4.01	3.92	3.17	2.14	2.31	2.26	2.16			
		-0.90	-0.54	-0.29	-0.18	-0.24	-0.40	-0.61	-0.32	-1.17	-1.24	-1.00	-0.96	-0.94	-1.08	-1.16	-1.24	-1.42	-0.80	-1.40	-0.50	-0.40	-0.55	-0.99	-0.81			
ADK HUDSON___FALLS 24011	EDT	42.51	37.47	34.25	32.60	33.95	35.99	45.01	49.25	49.31	45.89	43.30	42.36	41.28	43.83	44.94	46.66	53.53	67.97	73.95	63.43	50.06	46.65	44.86	42.02			
		1.14	1.07	1.00	0.92	1.03	1.02	1.41	1.67	1.32	1.01	0.74	0.60	0.38	0.53	0.54	0.75	1.23	1.88	2.29	1.84	1.75	1.72	1.37	1.16			
		0.76	0.46	0.25	0.15	0.21	0.34	0.52	0.27	1.00	1.05	0.85	0.82	0.80	0.92	0.99	1.06	1.21	-1.44	-6.37	-3.95	0.34	0.47	0.84	0.69			
ADK RESOURCE___RCVRY 23798	EDT	42.65	37.58	34.35	32.73	34.09	36.13	45.15	49.50	49.52	46.05	43.44	42.45	41.34	44.01	45.00	46.77	53.71	68.15	73.92	63.49	50.26	46.84	44.96	41.91			
		1.26	1.18	1.10	1.05	1.16	1.16	1.54	1.92	1.52	1.15	0.87	0.68	0.42	0.71	0.59	0.85	1.39	2.13	2.54	2.07	1.95	1.91	1.46	1.04			
		0.75	0.45	0.24	0.15	0.20	0.34	0.51	0.27	0.99	1.04	0.84	0.81	0.79	0.90	0.97	1.04	1.19	-1.36	-6.08	-3.78	0.34	0.46	0.83	0.68			
ADK S GLENS___FALLS 24028	EDT	42.51	37.47	34.25	32.60	33.95	35.99	45.01	49.25	49.31	45.89	43.30	42.36	41.28	43.83	44.94	46.66	53.53	67.97	73.95	63.43	50.06	46.65	44.86	42.02			
		1.14	1.07	1.00	0.92	1.03	1.02	1.41	1.67	1.32	1.01	0.74	0.60	0.38	0.53	0.54	0.75	1.23	1.88	2.29	1.84	1.75	1.72	1.37	1.16			
		0.76	0.46	0.25	0.15	0.21	0.34	0.52	0.27	1.00	1.05	0.85	0.82	0.80	0.92	0.99	1.06	1.21	-1.44	-6.37	-3.95	0.34	0.47	0.84	0.69			
ADK_NYS___DAM 23527	EDT	41.34	36.69	33.71	32.20	33.41	35.38	44.21	48.63	48.09	44.77	42.60	41.79	40.89	43.32	44.45	46.10	52.68	69.11	77.73	66.06	49.35	45.83	43.58	40.70			
		1.01	0.92	0.80	0.73	0.76	0.88	1.32	1.43	1.47	1.33	1.21	1.15	1.08	1.28	1.41	1.64	2.03	2.46	2.35	1.96	1.51	1.54	1.24	0.79			
		1.81	1.08	0.59	0.35	0.49	0.81	1.24	0.65	2.37	2.50	2.02	1.94	1.90	2.18	2.34	2.50	2.87	-2.00	-10.09	-6.47	0.81	1.11	1.99	1.64			
AIR_PRODUCTS___DRP 24190	EDT	41.03	36.08	32.91	31.30	32.62	34.67	43.16	47.17	47.76	44.56	42.09	41.25	40.45	42.83	43.98	45.67	52.09	61.26	55.85	52.00	47.72	44.50	43.09	40.67			
		-0.55	-0.44	-0.40	-0.41	-0.36	-0.39	-0.57	-0.48	-0.49	-0.60	-0.69	-0.72	-0.67	-0.71	-0.68	-0.52	-0.54	-0.71	-0.78	-0.81	-0.68	-0.54	-0.62	-0.37			
		0.56	0.34	0.18	0.11	0.15	0.25	0.38	0.20	0.74	0.78	0.63	0.60	0.59	0.68	0.73	0.78	0.89	2.68	8.66	4.82	0.25	0.34	0.62	0.51			
AKWESSNE_115KV_BK 355683	EDT	42.16	35.55	31.35	29.27	32.28	30.68	39.07	43.66	45.23	45.88	43.72	42.58	41.92	41.89	43.15	45.17	50.16	65.05	64.54	54.44	47.85	44.50	44.59	41.88			
		0.29	0.26	0.23	0.22	0.23	0.28	0.22	0.19	0.29	0.32	0.30	0.30	0.21	0.22	0.18	0.14	0.21	0.39	0.46	0.46	0.39	0.32	0.27	0.33			
		0.28	1.57	2.37	2.78	1.09	4.90	5.27	4.38	4.05	0.38	0.00	0.30	0.00	2.54	2.42	1.94	3.56	0.00	1.21	3.66	1.19	1.21	0.00	0.00			
ALBANY_1_SOLAR 323833	EDT	42.45	37.26	33.91	32.26	33.60	35.71	44.58	50.16	50.08	45.99	43.01	41.81	40.62	38.08	39.15	45.67	52.24	62.39	59.07	54.00	48.29	45.08	43.62	41.81			
		0.67	0.63	0.53	0.51	0.56	0.56	0.70	2.44	1.57	0.55	0.00	-0.38	-0.71	-5.70	-5.76	-0.80	-0.70	-0.45	-0.32	-0.34	-0.19	-0.09	-0.31	0.58			
		0.36	0.22	0.12	0.07	0.10	0.16	0.25	0.13	0.47	0.50	0.40	0.39	0.38	0.43	0.47	0.50	0.57	1.82	5.90	3.29	0.16	0.22	0.40	0.33			
ALBANY_2_SOLAR 323834	EDT	42.45	37.23	33.91	32.26	33.60	35.71	44.58	50.16	50.08	45.99	43.01	41.77	40.62	38.03	39.11	45.67	52.24	62.32	59.07	54.00	48.25	45.03	43.62	41.81			
		0.67	0.59	0.53	0.51	0.56	0.56	0.70	2.44	1.57	0.55	0.00	-0.43	-0.71	-5.75	-5.81	-0.80	-0.70	-0.52	-0.32	-0.34	-0.24	-0.14	-0.31	0.58			
		0.36	0.22	0.12	0.07	0.10	0.16	0.25	0.13	0.47	0.50	0.40	0.39	0.38	0.43	0.47	0.50	0.57	1.82	5.90	3.29	0.16	0.22	0.40	0.33			
ALBANY___1 23571	EDT	41.03	36.08	32.91	31.30	32.62	34.67	43.16	47.17	47.76	44.56	42.09	41.25	40.45	42.83	43.98	45.67	52.09	61.26	55.85	52.00	47.72	44.50	43.09	40.67			
		-0.55	-0.44	-0.40	-0.41	-0.36	-0.39	-0.57	-0.48	-0.49	-0.60	-0.69	-0.72	-0.67	-0.71	-0.68	-0.52	-0.54	-0.71	-0.78	-0.81	-0.68	-0.54	-0.62	-0.37			
		0.56	0.34	0.18	0.11	0.15	0.25	0.38	0.20	0.74	0.78	0.63	0.60	0.59	0.68	0.73	0.78	0.89	2.68	8.66	4.82	0.25	0.34	0.62	0.51			



ALBANY___2 23572	41.03 -0.55 0.56	36.08 -0.44 0.34	32.91 -0.40 0.18	31.30 -0.41 0.11	32.62 -0.36 0.15	34.67 -0.39 0.25	43.16 -0.57 0.38	47.17 -0.48 0.20	47.76 -0.49 0.74	44.56 -0.60 0.78	42.09 -0.69 0.63	41.25 -0.72 0.60	40.45 -0.67 0.59	42.83 -0.71 0.68	43.98 -0.68 0.73	45.67 -0.52 0.78	52.09 -0.54 0.89	61.26 -0.71 2.68	55.85 -0.78 8.66	52.00 -0.81 4.82	47.72 -0.68 0.25	44.50 -0.54 0.34	43.09 -0.62 0.62	40.67 -0.37 0.51
ALBANY___3 23573	41.03 -0.55 0.56	36.08 -0.44 0.34	32.91 -0.40 0.18	31.30 -0.41 0.11	32.62 -0.36 0.15	34.67 -0.39 0.25	43.16 -0.57 0.38	47.17 -0.48 0.20	47.76 -0.49 0.74	44.56 -0.60 0.78	42.09 -0.69 0.63	41.25 -0.72 0.60	40.45 -0.67 0.59	42.83 -0.71 0.68	43.98 -0.68 0.73	45.67 -0.52 0.78	52.09 -0.54 0.89	61.26 -0.71 2.68	55.85 -0.78 8.66	52.00 -0.81 4.82	47.72 -0.68 0.25	44.50 -0.54 0.34	43.09 -0.62 0.62	40.67 -0.37 0.51
ALBANY___4 23574	41.03 -0.55 0.56	36.08 -0.44 0.34	32.91 -0.40 0.18	31.30 -0.41 0.11	32.62 -0.36 0.15	34.67 -0.39 0.25	43.16 -0.57 0.38	47.17 -0.48 0.20	47.76 -0.49 0.74	44.56 -0.60 0.78	42.09 -0.69 0.63	41.25 -0.72 0.60	40.45 -0.67 0.59	42.83 -0.71 0.68	43.98 -0.68 0.73	45.67 -0.52 0.78	52.09 -0.54 0.89	61.26 -0.71 2.68	55.85 -0.78 8.66	52.00 -0.81 4.82	47.72 -0.68 0.25	44.50 -0.54 0.34	43.09 -0.62 0.62	40.67 -0.37 0.51
ALBANY___LFGE 323615	41.43 -0.08 0.63	36.44 -0.04 0.37	33.22 -0.07 0.20	31.64 -0.06 0.12	32.93 -0.03 0.17	34.99 -0.04 0.28	43.65 -0.04 0.43	47.53 -0.10 0.23	48.02 -0.15 0.82	44.84 -0.23 0.87	42.50 -0.22 0.70	41.66 -0.25 0.67	40.76 -0.29 0.66	43.20 -0.26 0.75	44.30 -0.27 0.81	46.00 -0.09 0.87	52.52 0.00 0.99	62.05 0.00 2.61	56.94 -0.07 8.29	52.88 -0.17 4.58	48.27 -0.10 0.28	44.96 -0.05 0.38	43.42 -0.22 0.69	40.78 -0.21 0.57
ALCOA_PA_115KV_PL-6C 55860	45.42 0.63 -2.65	52.37 0.55 -14.96	56.65 0.50 -22.66	58.82 0.48 -26.52	44.05 0.50 -10.41	82.67 0.53 -46.84	94.95 0.53 -50.30	90.20 0.53 -41.83	88.34 0.69 -38.67	50.17 0.64 -3.59	44.02 0.61 0.00	46.05 0.60 -2.87	42.25 0.54 0.00	69.07 0.57 -24.28	68.98 0.50 -23.10	65.93 0.47 -18.49	88.11 0.59 -34.01	65.50 0.84 0.00	77.69 0.85 -11.55	93.38 0.81 -34.94	60.72 0.73 -11.35	57.58 0.64 -11.55	44.95 0.62 0.00	42.22 0.66 0.00
ALCOA_RYNLDS___DRP 24188	45.42 0.63 -2.65	52.37 0.55 -14.96	56.65 0.50 -22.66	58.82 0.48 -26.52	44.05 0.50 -10.41	82.67 0.53 -46.84	94.95 0.53 -50.30	90.20 0.53 -41.83	88.34 0.69 -38.67	50.17 0.64 -3.59	44.02 0.61 0.00	46.05 0.60 -2.87	42.25 0.54 0.00	69.07 0.57 -24.28	68.98 0.50 -23.10	65.93 0.47 -18.49	88.11 0.59 -34.01	65.50 0.84 0.00	77.69 0.85 -11.55	93.38 0.81 -34.94	60.72 0.73 -11.35	57.58 0.64 -11.55	44.95 0.62 0.00	42.22 0.66 0.00
ALCOA___DSASP 323711	45.42 0.63 -2.65	52.37 0.55 -14.96	56.65 0.50 -22.66	58.82 0.48 -26.52	44.05 0.50 -10.41	82.67 0.53 -46.84	94.95 0.53 -50.30	90.20 0.53 -41.83	88.34 0.69 -38.67	50.17 0.64 -3.59	44.02 0.61 0.00	46.05 0.60 -2.87	42.29 0.58 0.00	69.03 0.53 -24.28	68.98 0.50 -23.10	65.93 0.47 -18.49	88.11 0.59 -34.01	65.50 0.84 0.00	77.69 0.85 -11.55	93.38 0.81 -34.94	60.68 0.68 -11.35	57.57 0.64 -11.55	44.99 0.67 0.00	42.30 0.75 0.00
ALLEGHENY___COGEN 23514	45.90 2.36 -1.40	39.92 2.10 -0.97	36.27 2.08 -0.70	34.42 2.04 -0.56	36.16 2.25 -0.77	38.66 2.40 -0.95	49.55 3.09 -2.35	54.06 3.49 -2.72	53.81 2.84 -1.98	49.79 2.11 -1.74	46.57 1.61 -1.55	45.48 1.40 -1.50	44.66 1.46 -1.49	47.49 1.64 -1.64	48.86 1.77 -1.71	50.48 1.69 -1.83	57.58 1.76 -2.31	69.70 2.52 -2.52	71.91 3.33 -3.29	63.83 3.52 -2.68	53.53 2.92 -1.96	49.63 2.54 -1.70	48.70 2.75 -1.62	45.90 2.95 -1.40
ALTAMONT_115KV_TB 2 55880	42.04 0.25 0.35	36.87 0.22 0.21	33.55 0.17 0.11	31.95 0.19 0.07	33.21 0.17 0.09	35.33 0.18 0.16	44.10 0.22 0.24	48.01 0.29 0.13	48.78 0.24 0.46	45.59 0.14 0.48	43.11 0.09 0.39	42.29 0.09 0.37	41.43 0.08 0.37	43.88 0.09 0.42	45.11 0.18 0.45	46.76 0.28 0.48	53.33 0.37 0.55	63.74 0.45 1.37	61.36 0.39 4.33	55.48 0.23 2.39	48.69 0.19 0.16	45.45 0.27 0.21	44.12 0.18 0.38	41.57 0.33 0.32
ALTONA_WT_PWR 323606	43.29 1.01 -0.14	38.37 0.74 -0.78	35.41 0.74 -1.18	33.91 0.70 -1.38	34.41 0.73 -0.54	38.60 0.85 -2.44	46.57 -0.18 -2.63	49.41 -0.62 -2.18	50.71 -0.29 -2.02	45.94 -0.18 -0.19	43.16 -0.26 0.00	42.30 -0.43 -0.15	41.67 -0.04 0.00	44.47 -1.02 -1.27	45.23 -1.36 -1.21	46.42 -1.50 -0.97	53.95 -1.34 -1.78	63.75 -0.91 0.00	65.44 -0.45 -0.60	59.34 -0.12 -1.82	49.29 0.05 -0.59	46.09 0.09 -0.60	45.26 0.93 0.00	43.50 1.95 0.00
AMERICAN_REF_FUEL 24010	43.18 -0.17 -1.21	37.62 -0.07 -0.84	34.36 0.27 -0.60	32.66 0.35 -0.48	34.20 0.40 -0.66	36.37 0.25 -0.82	45.88 -0.26 -2.02	49.72 -0.48 -2.35	49.76 -0.93 -1.71	46.89 -0.55 -1.50	44.45 -0.30 -1.33	43.75 -0.13 -1.29	42.91 -0.08 -1.29	45.54 -0.09 -1.41	46.85 0.00 -1.47	47.61 -0.94 -1.58	53.26 -2.35 -2.10	63.27 -3.68 -2.29	64.50 -3.79 -2.99	57.07 -3.00 -2.44	48.29 -2.14 -1.78	45.07 -1.86 -1.54	44.87 -0.93 -1.47	43.03 0.21 -1.27
ARKWRIGHT___SUMMIT_WT_PWR 323751	44.95 1.56 -1.25	39.16 1.44 -0.87	35.62 1.51 -0.62	33.88 1.56 -0.50	35.51 1.69 -0.69	37.95 1.80 -0.85	48.29 2.07 -2.10	52.58 2.30 -2.43	52.57 1.81 -1.77	49.42 1.93 -1.55	46.88 2.08 -1.38	46.09 2.17 -1.34	45.21 2.17 -1.33	47.97 2.30 -1.46	49.40 2.49 -1.52	50.29 1.69 -1.64	56.37 0.69 -2.17	66.97 -0.06 -2.37	68.32 -0.07 -3.10	60.39 0.23 -2.52	50.98 0.49 -1.84	47.35 0.36 -1.60	46.96 1.11 -1.52	44.78 1.91 -1.31
ARTHUR KILL_GT_1 23520	35.35 1.52 8.31	29.66 1.29 8.48	24.72 1.37 10.15	33.69 1.69 -0.18	35.00 1.62 -0.24	37.33 1.62 -0.40	45.48 0.75 -0.61	47.51 0.91 1.25	47.74 0.98 2.23	47.03 1.52 0.42	46.41 2.00 -1.00	44.59 2.38 0.38	41.64 2.17 2.24	42.23 2.17 4.15	44.63 2.09 2.84	44.44 2.35 4.87	48.85 2.51 7.18	58.75 2.72 8.62	59.79 2.55 8.05	51.58 1.96 8.02	44.03 1.22 5.84	42.32 1.59 4.66	45.80 1.73 0.26	44.52 2.16 -0.81
ARTHUR_KILL_2 23512	35.18 1.35 8.31	29.55 1.18 8.48	24.62 1.27 10.15	33.60 1.59 -0.18	34.90 1.52 -0.24	37.19 1.48 -0.40	45.30 0.57 -0.61	47.71 1.10 1.25	47.64 0.88 2.23	46.89 1.38 0.42	46.28 1.87 -1.00	44.29 2.09 0.38	41.64 2.17 2.24	42.10 2.03 4.15	44.58 2.04 2.84	44.44 2.35 4.87	48.63 2.30 7.18	58.43 2.39 8.62	59.53 2.28 8.05	51.34 1.73 8.02	43.93 1.12 5.84	42.23 1.50 4.66	45.49 1.42 0.26	43.03 0.66 -0.81
ARTHUR_KILL_3 23513	35.63 1.81 8.32	29.91 1.55 8.49	24.64 1.30 10.15	33.05 1.05 -0.18	34.33 0.96 -0.23	36.80 1.10 -0.39	46.00 1.28 -0.60	48.03 1.43 1.25	48.32 1.57 2.24	47.25 1.75 0.43	46.41 2.00 -0.99	43.92 2.13 0.79	40.72 2.21 3.19	42.40 2.34 4.16	44.17 2.49 3.71	43.96 2.68 5.68	48.65 2.83 7.70	58.97 3.17 8.85	60.05 3.01 8.25	51.53 2.36 8.47	44.36 1.56 5.85	42.45 1.72 4.67	45.75 1.68 0.26	43.60 1.25 -0.80



ARTHUR_KILL_COGEN 323718	35.34 1.51 8.31	29.66 1.29 8.48	24.72 1.37 10.15	33.69 1.69 -0.18	35.00 1.62 -0.24	37.33 1.62 -0.40	45.48 0.75 -0.61	47.85 1.24 1.25	47.79 1.03 2.23	47.08 1.56 0.42	46.42 2.00 -1.00	44.41 2.21 0.38	41.81 2.33 2.24	42.27 2.21 4.15	44.76 2.22 2.84	44.63 2.53 4.87	48.85 2.52 7.18	58.75 2.72 8.62	59.86 2.61 8.05	51.58 1.96 8.02	44.13 1.31 5.84	42.41 1.68 4.66	45.67 1.59 0.26	43.15 0.79 -0.81
ASHOKAN____ 23654	44.41 2.27 0.00	38.81 1.95 0.00	35.13 1.64 0.00	33.32 1.50 0.00	34.72 1.59 0.00	37.07 1.76 0.00	46.54 2.42 0.00	50.58 2.73 0.00	51.49 2.50 0.00	47.91 1.97 0.00	45.28 1.87 0.00	44.11 1.53 0.00	43.21 1.50 0.00	45.36 1.15 0.00	46.74 1.36 0.00	49.59 2.63 0.00	56.51 2.99 0.00	67.73 4.14 1.08	65.90 4.44 3.84	59.16 3.74 2.22	51.62 2.97 0.00	48.43 3.04 0.00	46.99 2.66 0.00	43.96 2.41 0.00
ASTORIA_EAST_ENERGY_CC1 323581	45.19 2.15 -0.91	39.31 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.08 1.38 -0.40	46.05 1.32 -0.61	50.34 2.06 -0.43	52.38 2.06 -1.33	49.57 2.30 -1.34	46.76 2.34 -1.00	46.14 2.60 -0.96	45.24 2.59 -0.94	48.08 2.79 -1.08	49.45 2.91 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.22 3.52 -1.40	60.96 2.82 -0.50	50.80 1.75 -0.40	48.21 2.27 -0.55	47.63 2.30 -0.99	44.16 1.79 -0.82
ASTORIA_EAST_ENERGY_CC2 323582	45.15 2.11 -0.91	39.28 1.88 -0.54	35.39 1.61 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.05 1.34 -0.40	46.01 1.28 -0.61	50.34 2.06 -0.43	52.33 2.01 -1.33	49.57 2.30 -1.34	46.72 2.30 -1.00	46.09 2.55 -0.96	45.24 2.59 -0.94	48.08 2.79 -1.08	49.40 2.86 -1.16	51.26 3.05 -1.24	58.25 3.32 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.75 1.70 -0.40	48.16 2.22 -0.55	47.63 2.30 -0.99	44.16 1.79 -0.82
ASTORIA_GT2_1 24094	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT2_2 24095	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT2_3 24096	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT2_4 24097	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT3_1 24098	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT3_2 24099	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT3_3 24100	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT3_4 24101	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT4_1 24102	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT4_2 24103	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT4_3 24104	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82



ASTORIA_GT4_4 24105	45.19 2.15 -0.91	39.32 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.09 1.38 -0.40	46.14 1.41 -0.61	50.19 1.91 -0.43	52.33 2.01 -1.33	49.48 2.20 -1.34	46.76 2.34 -1.00	46.09 2.55 -0.96	45.40 2.75 -0.94	48.03 2.74 -1.08	49.26 2.72 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.16 3.46 -1.40	60.96 2.82 -0.50	50.71 1.65 -0.40	48.17 2.22 -0.55	47.63 2.31 -0.99	44.61 2.24 -0.82
ASTORIA_GT_1 23523	45.28 2.23 -0.91	39.39 1.99 -0.54	35.49 1.71 -0.29	33.53 1.53 -0.18	34.80 1.42 -0.24	37.16 1.45 -0.40	46.23 1.50 -0.61	50.34 2.06 -0.43	52.43 2.11 -1.33	49.62 2.34 -1.34	46.89 2.47 -1.00	46.22 2.68 -0.96	45.53 2.88 -0.94	48.12 2.83 -1.08	49.40 2.86 -1.16	51.40 3.19 -1.24	58.46 3.53 -1.42	69.28 3.81 -0.81	70.35 3.66 -1.40	61.13 3.00 -0.50	50.80 1.75 -0.40	48.26 2.31 -0.55	47.76 2.44 -0.99	44.74 2.37 -0.82
ASTORIA_GT_10 24110	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.70 1.53 -0.32	51.78 1.62 -1.17	49.01 1.84 -1.24	46.63 2.21 -1.00	46.44 2.38 -1.47	46.41 2.54 -2.16	47.81 2.52 -1.08	50.18 2.54 -2.25	52.05 2.82 -2.26	58.58 3.00 -2.08	68.98 3.23 -1.09	70.01 3.07 -1.64	61.18 2.48 -1.06	50.56 1.51 -0.40	47.85 1.91 -0.55	47.22 1.91 -0.99	44.27 1.91 -0.81
ASTORIA_GT_11 24225	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.70 1.53 -0.32	51.78 1.62 -1.17	49.01 1.84 -1.24	46.63 2.21 -1.00	46.44 2.38 -1.47	46.41 2.54 -2.16	47.81 2.52 -1.08	50.18 2.54 -2.25	52.05 2.82 -2.26	58.58 3.00 -2.08	68.98 3.23 -1.09	70.01 3.07 -1.64	61.18 2.48 -1.06	50.56 1.51 -0.40	47.85 1.91 -0.55	47.22 1.91 -0.99	44.27 1.91 -0.81
ASTORIA_GT_12 24226	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.70 1.53 -0.32	51.78 1.62 -1.17	49.01 1.84 -1.24	46.63 2.21 -1.00	46.44 2.38 -1.47	46.41 2.54 -2.16	47.81 2.52 -1.08	50.18 2.54 -2.25	52.05 2.82 -2.26	58.58 3.00 -2.08	68.98 3.23 -1.09	70.01 3.07 -1.64	61.18 2.48 -1.06	50.56 1.51 -0.40	47.85 1.91 -0.55	47.22 1.91 -0.99	44.27 1.91 -0.81
ASTORIA_GT_13 24227	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.70 1.53 -0.32	51.78 1.62 -1.17	49.01 1.84 -1.24	46.63 2.21 -1.00	46.44 2.38 -1.47	46.41 2.54 -2.16	47.81 2.52 -1.08	50.18 2.54 -2.25	52.05 2.82 -2.26	58.58 3.00 -2.08	68.98 3.23 -1.09	70.01 3.07 -1.64	61.18 2.48 -1.06	50.56 1.51 -0.40	47.85 1.91 -0.55	47.22 1.91 -0.99	44.27 1.91 -0.81
ASTORIA_GT_5 24106	45.28 2.23 -0.91	39.39 1.99 -0.54	35.49 1.71 -0.29	33.53 1.53 -0.18	34.80 1.42 -0.24	37.16 1.45 -0.40	46.23 1.50 -0.61	50.34 2.06 -0.43	52.43 2.11 -1.33	49.62 2.34 -1.34	46.89 2.47 -1.00	46.22 2.68 -0.96	45.53 2.88 -0.94	48.12 2.83 -1.08	49.40 2.86 -1.16	51.40 3.19 -1.24	58.46 3.53 -1.42	69.28 3.81 -0.81	70.35 3.66 -1.40	61.13 3.00 -0.50	50.80 1.75 -0.40	48.26 2.31 -0.55	47.76 2.44 -0.99	44.74 2.37 -0.82
ASTORIA_GT_7 24107	45.28 2.23 -0.91	39.39 1.99 -0.54	35.49 1.71 -0.29	33.53 1.53 -0.18	34.80 1.42 -0.24	37.16 1.45 -0.40	46.23 1.50 -0.61	50.34 2.06 -0.43	52.43 2.11 -1.33	49.62 2.34 -1.34	46.89 2.47 -1.00	46.22 2.68 -0.96	45.53 2.88 -0.94	48.12 2.83 -1.08	49.40 2.86 -1.16	51.40 3.19 -1.24	58.46 3.53 -1.42	69.28 3.81 -0.81	70.35 3.66 -1.40	61.13 3.00 -0.50	50.80 1.75 -0.40	48.26 2.31 -0.55	47.76 2.44 -0.99	44.74 2.37 -0.82
ASTORIA_GT_8 24108	45.28 2.23 -0.91	39.39 1.99 -0.54	35.49 1.71 -0.29	33.53 1.53 -0.18	34.80 1.42 -0.24	37.16 1.45 -0.40	46.23 1.50 -0.61	50.34 2.06 -0.43	52.43 2.11 -1.33	49.62 2.34 -1.34	46.89 2.47 -1.00	46.22 2.68 -0.96	45.53 2.88 -0.94	48.12 2.83 -1.08	49.40 2.86 -1.16	51.40 3.19 -1.24	58.46 3.53 -1.42	69.28 3.81 -0.81	70.35 3.66 -1.40	61.13 3.00 -0.50	50.80 1.75 -0.40	48.26 2.31 -0.55	47.76 2.44 -0.99	44.74 2.37 -0.82
ASTORIA___2 24149	45.19 2.15 -0.91	39.31 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.73 1.36 -0.24	37.08 1.38 -0.40	46.05 1.32 -0.61	50.34 2.06 -0.43	52.38 2.06 -1.33	49.57 2.30 -1.34	46.76 2.34 -1.00	46.14 2.60 -0.96	45.24 2.59 -0.94	48.08 2.79 -1.08	49.45 2.91 -1.16	51.26 3.05 -1.24	58.30 3.37 -1.42	69.09 3.62 -0.81	70.22 3.52 -1.40	60.96 2.82 -0.50	50.80 1.75 -0.40	48.21 2.27 -0.55	47.63 2.30 -0.99	44.16 1.79 -0.82
ASTORIA___3 23516	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.85 1.67 -0.32	51.83 1.67 -1.17	49.10 1.93 -1.24	46.63 2.21 -1.00	46.48 2.43 -1.47	46.28 2.42 -2.16	47.86 2.56 -1.08	50.31 2.68 -2.25	52.05 2.82 -2.26	58.64 3.05 -2.08	69.04 3.30 -1.09	70.07 3.13 -1.64	61.17 2.48 -1.06	50.65 1.60 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	43.78 1.41 -0.81
ASTORIA___4 23517	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.70 1.53 -0.32	51.78 1.62 -1.17	49.01 1.84 -1.24	46.63 2.21 -1.00	46.44 2.38 -1.47	46.41 2.54 -2.16	47.81 2.52 -1.08	50.18 2.54 -2.25	52.05 2.82 -2.26	58.58 3.00 -2.08	68.98 3.23 -1.09	70.01 3.07 -1.64	61.18 2.48 -1.06	50.56 1.51 -0.40	47.85 1.91 -0.55	47.22 1.91 -0.99	44.27 1.91 -0.81
ASTORIA___5 23518	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.85 1.67 -0.32	51.83 1.67 -1.17	49.10 1.93 -1.24	46.63 2.21 -1.00	46.48 2.43 -1.47	46.28 2.42 -2.16	47.86 2.56 -1.08	50.31 2.68 -2.25	52.05 2.82 -2.26	58.64 3.05 -2.08	69.04 3.30 -1.09	70.07 3.13 -1.64	61.17 2.48 -1.06	50.65 1.60 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	43.78 1.41 -0.81
AST_ENERGY_2_CC3 323677	26.26 1.69 17.57	26.26 1.51 12.11	26.26 1.27 8.50	26.26 1.11 6.68	26.26 1.03 7.90	26.26 0.99 10.03	26.92 0.84 18.03	28.95 1.58 20.48	29.24 1.57 21.32	28.17 1.84 19.61	28.53 1.87 16.75	28.20 2.13 16.51	27.46 2.17 16.42	29.60 2.34 16.96	30.44 2.40 17.35	31.12 2.58 18.42	37.46 2.83 18.88	47.72 2.98 19.91	48.87 2.87 19.30	40.34 2.25 19.53	33.18 1.26 16.73	30.49 1.82 16.72	29.94 1.86 16.25	27.48 1.33 15.40
AST_ENERGY_2_CC4 323678	26.26 1.69 17.57	26.26 1.51 12.11	26.26 1.27 8.50	26.26 1.11 6.68	26.26 1.03 7.90	26.26 0.99 10.03	26.92 0.84 18.03	28.95 1.58 20.48	29.24 1.57 21.32	28.17 1.84 19.61	28.53 1.87 16.75	28.20 2.13 16.51	27.46 2.17 16.42	29.60 2.34 16.96	30.44 2.40 17.35	31.12 2.58 18.42	37.46 2.83 18.88	47.72 2.98 19.91	48.87 2.87 19.30	40.34 2.25 19.53	33.18 1.26 16.73	30.49 1.82 16.72	29.94 1.86 16.25	27.48 1.33 15.40



ATHENS_STG_1 23668	43.04	37.54	33.96	32.22	33.54	35.80	44.74	48.37	49.90	46.90	44.38	43.56	42.71	45.36	46.66	48.40	55.10	66.04	66.76	58.49	49.31	46.22	45.25	42.24
	0.51	0.44	0.33	0.32	0.30	0.32	0.35	0.38	0.39	0.41	0.52	0.55	0.58	0.66	0.77	0.89	0.96	1.03	0.85	0.64	0.49	0.59	0.49	0.33
	-0.40	-0.24	-0.13	-0.08	-0.11	-0.18	-0.27	-0.14	-0.52	-0.55	-0.44	-0.42	-0.42	-0.48	-0.51	-0.55	-0.63	-0.35	-0.62	-0.22	-0.18	-0.24	-0.44	-0.36
ATHENS_STG_2 23670	43.04	37.54	33.96	32.22	33.54	35.80	44.74	48.37	49.90	46.90	44.38	43.56	42.71	45.36	46.66	48.40	55.10	66.04	66.76	58.49	49.31	46.22	45.25	42.24
	0.51	0.44	0.33	0.32	0.30	0.32	0.35	0.38	0.39	0.41	0.52	0.55	0.58	0.66	0.77	0.89	0.96	1.03	0.85	0.64	0.49	0.59	0.49	0.33
	-0.40	-0.24	-0.13	-0.08	-0.11	-0.18	-0.27	-0.14	-0.52	-0.55	-0.44	-0.42	-0.42	-0.48	-0.51	-0.55	-0.63	-0.35	-0.62	-0.22	-0.18	-0.24	-0.44	-0.36
ATHENS_STG_3 23677	43.04	37.54	33.96	32.22	33.54	35.80	44.74	48.37	49.90	46.90	44.38	43.56	42.71	45.36	46.66	48.40	55.10	66.04	66.76	58.49	49.31	46.22	45.25	42.24
	0.51	0.44	0.33	0.32	0.30	0.32	0.35	0.38	0.39	0.41	0.52	0.55	0.58	0.66	0.77	0.89	0.96	1.03	0.85	0.64	0.49	0.59	0.49	0.33
	-0.40	-0.24	-0.13	-0.08	-0.11	-0.18	-0.27	-0.14	-0.52	-0.55	-0.44	-0.42	-0.42	-0.48	-0.51	-0.55	-0.63	-0.35	-0.62	-0.22	-0.18	-0.24	-0.44	-0.36
AUBURN___LFGE 323710	45.38	39.40	35.63	33.69	35.28	38.38	50.29	54.81	54.31	50.19	47.15	46.21	45.31	48.52	49.79	51.44	59.16	70.50	73.00	64.38	53.47	49.51	48.20	44.72
	0.42	0.41	0.44	0.38	0.46	0.53	0.79	0.96	0.83	0.74	0.65	0.60	0.63	0.71	0.68	0.56	0.48	0.71	0.85	0.81	0.68	0.50	0.58	0.33
	-2.82	-2.14	-1.71	-1.49	-1.68	-2.54	-5.38	-6.00	-4.48	-3.52	-3.08	-3.03	-2.97	-3.60	-3.72	-3.91	-5.17	-5.13	-6.86	-5.94	-4.14	-3.62	-3.29	-2.84
BABYLON_RES_REC 323704	44.51	38.53	34.55	32.57	33.87	36.66	45.39	47.06	47.53	47.12	44.48	44.98	44.27	46.65	48.08	50.03	56.82	67.54	68.66	59.75	49.87	46.14	44.43	43.22
	1.47	1.14	0.77	0.57	0.50	0.95	0.66	0.62	0.69	1.28	1.21	1.45	1.63	1.37	1.54	1.83	1.87	2.07	1.96	1.61	0.83	0.82	1.02	0.87
	-0.90	-0.54	-0.28	-0.17	-0.24	-0.40	-0.61	1.41	2.14	0.10	0.15	-0.95	-0.93	-1.07	-1.15	-1.23	-1.44	-0.81	-1.41	-0.51	-0.39	0.07	0.92	-0.80
BALL_HILL_WT_PWR 323825	44.38	38.63	35.18	33.43	35.04	37.38	47.34	51.45	51.47	48.39	45.87	45.10	44.24	46.99	48.39	49.33	55.28	65.83	67.17	59.37	50.17	46.65	46.27	44.13
	1.01	0.92	1.07	1.11	1.23	1.24	1.15	1.20	0.74	0.92	1.09	1.19	1.21	1.33	1.50	0.75	-0.37	-1.16	-1.17	-0.75	-0.29	-0.32	0.44	1.29
	-1.24	-0.86	-0.62	-0.50	-0.68	-0.84	-2.07	-2.40	-1.75	-1.54	-1.37	-1.33	-1.32	-1.45	-1.51	-1.62	-2.14	-2.34	-3.05	-2.49	-1.81	-1.57	-1.50	-1.29
BARON_WINDS___WT_PWR 323822	44.53	38.75	35.18	33.38	35.06	37.46	47.88	52.12	52.01	48.55	45.77	44.84	44.02	46.82	48.18	49.46	55.81	67.02	68.80	60.84	51.12	47.47	46.76	44.16
	0.89	0.85	0.94	0.95	1.09	1.13	1.23	1.34	0.88	0.73	0.69	0.64	0.71	0.84	0.95	0.52	-0.16	-0.32	0.00	0.35	0.39	0.27	0.71	1.12
	-1.51	-1.04	-0.75	-0.60	-0.83	-1.02	-2.53	-2.93	-2.13	-1.88	-1.67	-1.62	-1.61	-1.76	-1.84	-1.98	-2.45	-2.68	-3.50	-2.85	-2.08	-1.81	-1.72	-1.49
BARRETT_IC_1 23704	44.34	38.57	34.65	32.66	33.97	36.70	45.34	49.05	51.17	48.71	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	-0.76	-1.69	-1.67	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81
BARRETT_IC_10 23701	44.34	38.57	34.65	32.66	33.97	36.70	45.34	44.82	44.82	44.82	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	3.46	4.66	2.22	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81
BARRETT_IC_11 23702	44.34	38.57	34.65	32.66	33.97	36.70	45.34	44.82	44.82	44.82	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	3.46	4.66	2.22	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81
BARRETT_IC_12 23703	44.34	38.57	34.65	32.66	33.97	36.70	45.34	44.82	44.82	44.82	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	3.46	4.66	2.22	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81
BARRETT_IC_2 23705	44.34	38.57	34.65	32.66	33.97	36.70	45.34	49.05	51.17	48.71	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	-0.76	-1.69	-1.67	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81
BARRETT_IC_3 23706	44.34	38.57	34.65	32.66	33.97	36.70	45.34	49.05	51.17	48.71	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	-0.76	-1.69	-1.67	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81
BARRETT_IC_4 23707	44.34	38.57	34.65	32.66	33.97	36.70	45.34	49.05	51.17	48.71	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	-0.76	-1.69	-1.67	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81
BARRETT_IC_5 23708	44.34	38.57	34.65	32.66	33.97	36.70	45.34	49.05	51.17	48.71	45.42	45.02	44.27	47.10	48.53	50.45	57.36	68.12	69.24	60.33	50.26	47.31	45.96	43.02
	1.31	1.18	0.87	0.67	0.60	0.99	0.62	0.43	0.49	1.10	1.13	1.49	1.63	1.81	1.99	2.25	2.41	2.65	2.54	2.19	1.22	1.09	0.84	0.66
	-0.90	-0.54	-0.29	-0.17	-0.24	-0.40	-0.61	-0.76	-1.69	-1.67	-0.88	-0.95	-0.93	-1.07	-1.15	-1.24	-1.44	-0.81	-1.41	-0.51	-0.40	-0.84	-0.79	-0.81



BARRETT_IC_6 23709	44.34 1.31 -0.90	38.57 1.18 -0.54	34.65 0.87 -0.29	32.66 0.67 -0.17	33.97 0.60 -0.24	36.70 0.99 -0.40	45.34 0.62 -0.61	49.05 0.43 -0.76	51.17 0.49 -1.69	48.71 1.10 -1.67	45.42 1.13 -0.88	45.02 1.49 -0.95	44.27 1.63 -0.93	47.10 1.81 -1.07	48.53 1.99 -1.15	50.45 2.25 -1.24	57.36 2.41 -1.44	68.12 2.65 -0.81	69.24 2.54 -1.41	60.33 2.19 -0.51	50.26 1.22 -0.40	47.31 1.09 -0.84	45.96 0.84 -0.79	43.02 0.66 -0.81
BARRETT_IC_7 23710	44.34 1.31 -0.90	38.57 1.18 -0.54	34.65 0.87 -0.29	32.66 0.67 -0.17	33.97 0.60 -0.24	36.70 0.99 -0.40	45.34 0.62 -0.61	48.95 0.33 -0.77	51.12 0.44 -1.69	48.21 0.60 -1.67	45.42 1.13 -0.88	44.94 1.41 -0.95	44.35 1.71 -0.93	47.01 1.72 -1.07	48.49 1.95 -1.15	50.41 2.21 -1.24	57.36 2.41 -1.44	67.99 2.52 -0.81	69.18 2.48 -1.41	60.33 2.19 -0.51	50.16 1.12 -0.40	47.27 1.04 -0.84	45.91 0.80 -0.79	43.35 1.00 -0.81
BARRETT_IC_8 23711	44.34 1.31 -0.90	38.57 1.18 -0.54	34.65 0.87 -0.29	32.66 0.67 -0.17	33.97 0.60 -0.24	36.70 0.99 -0.40	45.34 0.62 -0.61	49.05 0.43 -0.76	51.17 0.49 -1.69	48.71 1.10 -1.67	45.42 1.13 -0.88	45.02 1.49 -0.95	44.27 1.63 -0.93	47.10 1.81 -1.07	48.53 1.99 -1.15	50.45 2.25 -1.24	57.36 2.41 -1.44	68.12 2.65 -0.81	69.24 2.54 -1.41	60.33 2.19 -0.51	50.26 1.22 -0.40	47.31 1.09 -0.84	45.96 0.84 -0.79	43.02 0.66 -0.81
BARRETT_IC_9 23700	44.34 1.31 -0.90	38.57 1.18 -0.54	34.65 0.87 -0.29	32.66 0.67 -0.17	33.97 0.60 -0.24	36.70 0.99 -0.40	45.34 0.62 -0.61	44.82 0.43 3.46	44.82 0.49 4.66	44.82 1.10 2.22	45.42 1.13 -0.88	45.02 1.49 -0.95	44.27 1.63 -0.93	47.10 1.81 -1.07	48.53 1.99 -1.15	50.45 2.25 -1.24	57.36 2.41 -1.44	68.12 2.65 -0.81	69.24 2.54 -1.41	60.33 2.19 -0.51	50.26 1.22 -0.40	47.31 1.09 -0.84	45.96 0.84 -0.79	43.02 0.66 -0.81
BARRETT___1 23545	44.34 1.31 -0.90	38.57 1.18 -0.54	34.65 0.87 -0.29	32.66 0.67 -0.17	33.97 0.60 -0.24	36.70 0.99 -0.40	45.34 0.62 -0.61	49.05 0.43 -0.76	51.17 0.49 -1.69	48.71 1.10 -1.67	45.42 1.13 -0.88	45.02 1.49 -0.95	44.27 1.63 -0.93	47.10 1.81 -1.07	48.53 1.99 -1.15	50.45 2.25 -1.24	57.36 2.41 -1.44	68.12 2.65 -0.81	69.24 2.54 -1.41	60.33 2.19 -0.51	50.26 1.22 -0.40	47.31 1.09 -0.84	45.96 0.84 -0.79	43.02 0.66 -0.81
BARRETT___2 23546	44.34 1.31 -0.90	38.57 1.18 -0.54	34.65 0.87 -0.29	32.66 0.67 -0.17	33.97 0.60 -0.24	36.70 0.99 -0.40	45.34 0.62 -0.61	44.82 0.43 3.46	44.82 0.49 4.66	44.82 1.10 2.22	45.42 1.13 -0.88	45.02 1.49 -0.95	44.27 1.63 -0.93	47.10 1.81 -1.07	48.53 1.99 -1.15	50.45 2.25 -1.24	57.36 2.41 -1.44	68.12 2.65 -0.81	69.24 2.54 -1.41	60.33 2.19 -0.51	50.26 1.22 -0.40	47.31 1.09 -0.84	45.96 0.84 -0.79	43.02 0.66 -0.81
BATAVIA___115KV_TB1 55881	44.80 1.47 -1.19	39.01 1.33 -0.82	35.53 1.44 -0.59	33.73 1.43 -0.48	35.38 1.59 -0.65	37.70 1.59 -0.80	47.92 1.81 -1.99	51.98 1.82 -2.31	52.14 1.47 -1.68	49.07 1.65 -1.48	46.38 1.65 -1.31	45.60 1.75 -1.27	44.56 1.58 -1.27	47.42 1.81 -1.39	48.74 1.91 -1.45	49.74 1.22 -1.56	56.01 0.48 -2.01	67.25 0.39 -2.20	68.56 0.39 -2.87	60.67 0.69 -2.34	51.14 0.78 -1.71	47.56 0.68 -1.48	46.94 1.20 -1.41	43.60 0.83 -1.22
BAYONEEC___CTG1 323682	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG10 323750	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG2 323683	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG3 323684	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG4 323685	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG5 323686	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG6 323687	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG7 323688	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81



BAYONEEC___CTG8 323689	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BAYONEEC___CTG9 323749	45.06 2.02 -0.90	39.16 1.77 -0.54	35.25 1.47 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.41 2.34 -0.49	43.95 2.42 0.18	47.86 2.56 -1.08	48.26 2.72 -0.15	50.22 2.96 -0.30	57.49 3.16 -0.82	68.68 3.49 -0.54	69.79 3.33 -1.17	60.32 2.71 0.02	50.90 1.85 -0.40	47.94 1.99 -0.55	47.22 1.90 -0.99	43.82 1.45 -0.81
BEACON___LESR 323632	41.58 0.04 0.60	36.53 0.04 0.36	33.33 0.03 0.19	31.71 0.00 0.12	33.04 0.07 0.16	35.14 0.11 0.27	43.84 0.13 0.41	47.73 0.10 0.22	48.20 0.00 0.79	44.97 -0.14 0.83	42.61 -0.13 0.67	41.77 -0.17 0.64	40.83 -0.25 0.63	43.27 -0.22 0.72	44.38 -0.23 0.78	46.09 -0.05 0.83	52.67 0.11 0.95	61.89 0.19 2.96	55.89 0.20 9.60	52.34 0.06 5.35	48.48 0.10 0.27	45.16 0.14 0.37	43.58 -0.09 0.66	41.01 0.00 0.54
BEAVER RIVER___HYD 24048	45.57 1.39 -2.05	42.88 1.21 -4.81	41.00 0.97 -6.53	40.04 0.83 -7.39	37.37 0.79 -3.44	49.31 0.99 -13.02	60.98 1.59 -15.28	63.02 1.72 -13.45	62.47 1.57 -11.92	49.66 1.10 -2.62	45.40 0.48 -1.51	45.17 0.38 -2.20	43.41 0.25 -1.45	52.21 0.13 -7.86	53.10 0.09 -7.63	53.62 0.09 -6.56	65.06 0.48 -11.07	67.81 0.65 -2.50	72.85 1.31 -6.25	70.76 1.44 -11.68	54.74 1.22 -4.87	51.24 1.18 -4.67	47.00 1.06 -1.60	43.72 0.79 -1.39
BEEBEE_GT_13 23619	43.78 0.51 -1.13	38.08 0.44 -0.79	34.59 0.54 -0.57	32.82 0.54 -0.45	34.39 0.63 -0.62	36.71 0.64 -0.77	46.73 0.71 -1.90	50.82 0.77 -2.21	51.18 0.59 -1.60	48.08 0.74 -1.41	45.45 0.78 -1.25	44.65 0.85 -1.22	43.71 0.79 -1.21	46.47 0.93 -1.33	47.72 0.95 -1.38	49.01 0.56 -1.48	55.59 0.16 -1.92	66.75 0.00 -2.09	68.03 0.00 -2.73	60.03 0.17 -2.23	50.52 0.24 -1.62	47.03 0.23 -1.41	46.11 0.44 -1.34	42.88 0.17 -1.16
BENSHRST_27_KV_BENSHRST_1 355998	45.02 1.98 -0.90	39.09 1.70 -0.54	35.36 1.57 -0.29	33.65 1.65 -0.18	34.97 1.59 -0.24	37.33 1.62 -0.40	45.92 1.19 -0.61	49.66 1.48 -0.32	51.73 1.57 -1.17	49.15 1.98 -1.24	46.89 2.47 -1.00	56.36 2.77 -11.01	69.18 2.71 -24.76	48.03 2.74 -1.08	70.68 2.68 -22.62	71.18 2.91 -21.31	70.99 3.21 -14.27	74.58 3.49 -6.43	74.96 3.40 -6.27	71.87 2.65 -11.59	50.85 1.80 -0.40	48.07 2.13 -0.55	47.53 2.22 -0.99	44.73 2.37 -0.81
BETHLEHEM___GRP 23843	41.03 -0.55 0.56	36.08 -0.44 0.34	32.91 -0.40 0.18	31.30 -0.41 0.11	32.62 -0.36 0.15	34.67 -0.39 0.25	43.16 -0.57 0.38	47.17 -0.48 0.20	47.76 -0.49 0.74	44.56 -0.60 0.78	42.09 -0.69 0.63	41.25 -0.72 0.60	40.45 -0.67 0.59	42.83 -0.71 0.68	43.98 -0.68 0.73	45.67 -0.52 0.78	52.09 -0.54 0.89	61.26 -0.71 2.68	55.85 -0.78 8.66	52.00 -0.81 4.82	47.72 -0.68 0.25	44.50 -0.54 0.34	43.09 -0.62 0.62	40.67 -0.37 0.51
BETHLEHEM___GS1 323560	41.03 -0.55 0.56	36.08 -0.44 0.34	32.91 -0.40 0.18	31.30 -0.41 0.11	32.62 -0.36 0.15	34.67 -0.39 0.25	43.21 -0.53 0.38	46.98 -0.67 0.20	47.57 -0.69 0.74	44.43 -0.74 0.78	42.09 -0.70 0.63	41.25 -0.72 0.60	40.41 -0.71 0.59	42.79 -0.75 0.68	43.93 -0.73 0.73	45.57 -0.61 0.78	52.03 -0.59 0.89	61.27 -0.71 2.68	55.85 -0.78 8.66	52.00 -0.81 4.82	47.72 -0.68 0.25	44.46 -0.59 0.34	43.00 -0.71 0.62	40.42 -0.62 0.51
BETHLEHEM___GS2 323561	41.03 -0.55 0.56	36.08 -0.44 0.34	32.91 -0.40 0.18	31.30 -0.41 0.11	32.62 -0.36 0.15	34.67 -0.39 0.25	43.21 -0.53 0.38	46.98 -0.67 0.20	47.57 -0.69 0.74	44.43 -0.74 0.78	42.09 -0.70 0.63	41.25 -0.72 0.60	40.41 -0.71 0.59	42.79 -0.75 0.68	43.93 -0.73 0.73	45.57 -0.61 0.78	52.03 -0.59 0.89	61.27 -0.71 2.68	55.85 -0.78 8.66	52.00 -0.81 4.82	47.72 -0.68 0.25	44.46 -0.59 0.34	43.00 -0.71 0.62	40.42 -0.62 0.51
BETHLEHEM___GS3 323562	41.03 -0.55 0.56	36.08 -0.44 0.34	32.91 -0.40 0.18	31.30 -0.41 0.11	32.62 -0.36 0.15	34.67 -0.39 0.25	43.21 -0.53 0.38	46.98 -0.67 0.20	47.57 -0.69 0.74	44.43 -0.74 0.78	42.09 -0.70 0.63	41.25 -0.72 0.60	40.41 -0.71 0.59	42.79 -0.75 0.68	43.93 -0.73 0.73	45.57 -0.61 0.78	52.03 -0.59 0.89	61.27 -0.71 2.68	55.85 -0.78 8.66	52.00 -0.81 4.82	47.72 -0.68 0.25	44.46 -0.59 0.34	43.00 -0.71 0.62	40.42 -0.62 0.51
BETHLEHEM___STEEL 23779	44.22 0.84 -1.24	38.52 0.81 -0.86	35.08 0.97 -0.62	33.34 1.02 -0.50	34.94 1.13 -0.68	37.27 1.13 -0.84	47.17 0.97 -2.08	51.03 0.77 -2.41	51.04 0.29 -1.75	48.21 0.74 -1.54	45.74 0.96 -1.37	44.97 1.06 -1.33	44.03 1.00 -1.32	46.81 1.15 -1.45	48.21 1.32 -1.51	49.01 0.42 -1.62	54.87 -0.75 -2.11	65.54 -1.42 -2.31	66.80 -1.50 -3.01	58.93 -1.15 -2.45	49.86 -0.58 -1.79	46.40 -0.54 -1.55	46.07 0.27 -1.48	42.95 0.12 -1.28
BETHLHEM_115KV_TB1 79974	41.23 -0.38 0.53	36.24 -0.29 0.31	33.02 -0.30 0.17	31.44 -0.29 0.10	32.73 -0.27 0.14	34.82 -0.25 0.24	43.36 -0.40 0.36	47.33 -0.33 0.19	47.96 -0.34 0.69	44.75 -0.46 0.73	42.26 -0.56 0.59	41.46 -0.55 0.56	40.66 -0.50 0.55	43.05 -0.53 0.63	44.20 -0.50 0.68	45.91 -0.33 0.73	52.30 -0.37 0.83	61.71 -0.45 2.50	56.65 -0.59 8.05	52.58 -0.58 4.48	47.93 -0.49 0.24	44.71 -0.36 0.32	43.26 -0.49 0.58	40.82 -0.25 0.48
BETHPAGE_CC_5 323564	44.30 1.26 -0.90	38.35 0.96 -0.54	34.48 0.70 -0.28	32.50 0.51 -0.17	33.77 0.40 -0.24	36.52 0.81 -0.40	45.12 0.40 -0.61	46.93 0.34 1.26	47.57 0.44 1.86	47.02 1.06 -0.02	44.44 1.09 0.06	44.85 1.32 -0.95	44.10 1.46 -0.93	46.87 1.59 -1.07	48.30 1.77 -1.15	50.26 2.06 -1.23	57.25 2.30 -1.44	67.99 2.52 -0.81	69.12 2.42 -1.41	60.16 2.02 -0.51	50.07 1.02 -0.40	46.34 0.95 0.01	44.32 0.75 0.76	42.93 0.58 -0.80
BIGTREE_115_KV_TB2_REV_LBMP_A 345034	44.27 0.88 -1.24	38.56 0.85 -0.86	35.08 0.97 -0.62	33.37 1.05 -0.50	34.98 1.16 -0.69	37.31 1.17 -0.84	47.31 1.10 -2.09	51.23 0.96 -2.42	51.24 0.49 -1.76	48.40 0.92 -1.55	45.92 1.13 -1.38	45.15 1.23 -1.34	44.20 1.17 -1.33	47.00 1.33 -1.46	48.44 1.54 -1.52	49.11 0.52 -1.63	54.99 -0.64 -2.12	65.68 -1.29 -2.32	66.95 -1.37 -3.02	59.06 -1.04 -2.46	49.96 -0.49 -1.80	46.50 -0.45 -1.56	46.17 0.35 -1.49	43.00 0.17 -1.28
BINGHAMTON___COGEN 23790	44.33 0.63 -1.56	38.49 0.55 -1.08	34.84 0.57 -0.78	32.99 0.54 -0.63	34.59 0.60 -0.86	36.96 0.60 -1.06	47.53 0.79 -2.62	51.70 0.81 -3.04	51.88 0.69 -2.21	48.57 0.69 -1.94	45.84 0.69 -1.73	44.94 0.68 -1.67	44.08 0.71 -1.67	46.84 0.80 -1.83	48.20 0.91 -1.91	49.71 0.70 -2.05	56.67 0.54 -2.63	68.18 0.65 -2.87	69.70 0.65 -3.75	61.32 0.63 -3.06	51.46 0.58 -2.23	47.83 0.50 -1.94	46.79 0.62 -1.84	43.60 0.46 -1.59



BIXINCNT_115KV_LOAD 355685	44.16 0.76 -1.26	38.50 0.77 -0.87	35.03 0.90 -0.63	33.35 1.02 -0.51	34.99 1.16 -0.69	37.43 1.27 -0.85	47.65 1.41 -2.12	51.60 1.29 -2.45	51.56 0.78 -1.79	48.65 1.15 -1.57	46.11 1.30 -1.39	45.29 1.36 -1.35	44.43 1.38 -1.34	47.19 1.50 -1.48	48.65 1.72 -1.54	49.32 0.70 -1.65	55.25 -0.43 -2.17	66.06 -0.97 -2.37	67.41 -0.98 -3.09	59.52 -0.63 -2.52	50.34 -0.15 -1.84	46.76 -0.23 -1.60	46.38 0.53 -1.52	43.15 0.29 -1.31
BLACK RIVER___HYD 24047	46.66 1.85 -2.67	42.66 1.62 -4.19	40.00 1.37 -5.14	38.64 1.21 -5.61	37.39 1.19 -3.07	46.59 1.45 -9.84	59.06 2.29 -12.65	62.16 2.58 -11.73	61.34 2.35 -10.00	51.05 1.75 -3.37	46.93 1.09 -2.43	46.43 0.98 -2.87	44.80 0.75 -2.34	51.78 0.66 -6.90	52.77 0.59 -6.80	53.79 0.66 -6.17	64.50 1.23 -9.76	70.31 1.62 -4.04	75.23 2.61 -7.32	70.86 2.71 -10.52	56.09 2.29 -5.15	52.26 2.09 -4.78	48.78 1.86 -2.59	45.24 1.45 -2.23
BLACKRVR_115KV_TB2 79977	46.66 1.85 -2.67	42.66 1.62 -4.19	40.00 1.37 -5.14	38.64 1.21 -5.61	37.39 1.19 -3.07	46.59 1.45 -9.84	59.07 2.29 -12.65	62.11 2.54 -11.73	61.29 2.30 -10.00	51.05 1.75 -3.37	46.93 1.09 -2.43	46.43 0.98 -2.87	44.80 0.75 -2.34	51.77 0.66 -6.90	52.77 0.59 -6.80	53.75 0.61 -6.17	64.50 1.23 -9.76	70.32 1.62 -4.05	75.24 2.61 -7.34	70.87 2.71 -10.53	56.10 2.29 -5.16	52.26 2.09 -4.78	48.78 1.86 -2.59	45.08 1.29 -2.24
BLDWN_LI_69_KV_BK4 356085	44.64 1.60 -0.90	38.72 1.33 -0.54	34.75 0.97 -0.29	32.76 0.76 -0.17	34.07 0.70 -0.24	36.80 1.09 -0.40	45.56 0.84 -0.61	48.05 0.72 0.52	49.32 0.83 0.50	47.52 0.96 -0.61	45.28 1.52 -0.35	45.28 1.75 -0.95	44.65 2.00 -0.93	47.32 2.03 -1.07	48.85 2.31 -1.15	50.83 2.63 -1.24	57.90 2.94 -1.44	68.77 3.30 -0.81	69.90 3.20 -1.41	60.91 2.77 -0.51	50.60 1.56 -0.40	47.14 1.45 -0.30	45.44 1.20 0.09	43.64 1.29 -0.81
BLISS_WT_PWR 323608	44.11 0.72 -1.26	38.47 0.74 -0.87	34.99 0.87 -0.63	33.35 1.02 -0.51	34.99 1.16 -0.69	37.43 1.27 -0.85	47.69 1.45 -2.12	51.83 1.53 -2.45	51.85 1.08 -1.79	48.75 1.24 -1.57	46.11 1.30 -1.39	45.29 1.36 -1.35	44.51 1.46 -1.34	47.24 1.55 -1.48	48.65 1.72 -1.54	49.41 0.80 -1.65	55.43 -0.27 -2.19	65.95 -1.10 -2.39	67.44 -0.98 -3.12	59.66 -0.52 -2.54	50.41 -0.10 -1.86	46.82 -0.18 -1.61	46.40 0.53 -1.53	44.16 1.29 -1.32
BLUESTONE___WT_PWR 323821	45.76 2.27 -1.35	39.78 1.99 -0.94	35.97 1.81 -0.67	34.05 1.69 -0.54	35.60 1.72 -0.74	38.13 1.91 -0.91	49.12 2.74 -2.27	53.59 3.11 -2.63	53.89 2.99 -1.91	50.19 2.57 -1.68	47.08 2.17 -1.49	46.16 2.13 -1.45	45.03 1.88 -1.44	47.74 1.94 -1.58	49.03 1.99 -1.65	50.71 1.97 -1.77	58.26 2.52 -2.23	70.20 3.10 -2.44	72.19 3.72 -3.18	63.80 3.57 -2.59	53.56 3.02 -1.89	49.71 2.68 -1.64	48.46 2.57 -1.56	45.14 2.24 -1.35
BLUE_CIRC_CHEM_DRP 24182	42.16 0.38 0.36	37.01 0.37 0.22	33.71 0.33 0.12	32.07 0.32 0.07	33.37 0.33 0.10	35.50 0.35 0.16	44.27 0.40 0.25	50.40 2.68 0.13	50.33 1.81 0.47	46.22 0.78 0.50	43.01 0.00 0.40	41.77 -0.43 0.39	40.66 -0.67 0.38	43.25 -0.53 0.43	44.46 -0.45 0.46	46.51 0.05 0.50	53.10 0.16 0.57	63.21 0.32 1.78	59.87 0.33 5.75	54.66 0.23 3.21	48.73 0.24 0.16	45.49 0.32 0.22	44.15 0.22 0.40	41.72 0.50 0.33
BOC_GAS_DRP 24189	41.89 0.08 0.33	36.77 0.11 0.20	33.45 0.07 0.11	31.82 0.06 0.06	33.11 0.07 0.09	35.19 0.04 0.15	43.94 0.04 0.23	47.78 0.05 0.12	48.60 0.05 0.43	45.48 0.00 0.46	43.00 -0.04 0.37	42.18 -0.04 0.35	41.36 0.00 0.35	43.82 0.00 0.40	45.00 0.05 0.43	46.69 0.19 0.46	53.20 0.21 0.53	63.33 0.13 1.45	60.64 0.00 4.65	55.00 -0.06 2.58	48.45 -0.05 0.15	45.23 0.05 0.20	43.92 -0.04 0.36	41.42 0.17 0.30
BOONVILLE_115KV_TB1 79983	44.36 1.18 -1.04	39.91 1.03 -2.02	36.99 0.87 -2.63	35.49 0.73 -2.93	35.32 0.73 -1.46	41.35 0.88 -5.16	51.77 1.37 -6.28	55.03 1.53 -5.65	55.33 1.42 -4.93	48.36 1.10 -1.32	44.97 0.69 -0.86	44.34 0.64 -1.12	43.04 0.50 -0.83	48.01 0.49 -3.31	49.07 0.45 -3.23	50.28 0.47 -2.85	59.04 0.86 -4.67	67.12 1.03 -1.43	69.81 1.50 -3.01	64.11 1.50 -4.98	52.15 1.26 -2.23	48.63 1.13 -2.11	46.27 1.02 -0.92	43.05 0.71 -0.79
BORALEX_4TH_BRANCH 23824	41.34 1.01 1.81	36.69 0.92 1.08	33.71 0.80 0.59	32.20 0.73 0.35	33.41 0.76 0.49	35.38 0.88 0.81	44.21 1.32 1.24	48.64 1.44 0.65	48.04 1.42 2.37	44.68 1.24 2.50	42.61 1.22 2.02	41.79 1.15 1.94	40.94 1.13 1.90	43.28 1.24 2.18	44.45 1.41 2.34	46.10 1.64 2.50	52.73 2.09 2.87	69.11 2.46 -2.00	77.73 2.35 -10.09	66.06 1.96 -6.47	49.30 1.46 0.81	45.78 1.50 1.11	43.67 1.33 1.99	41.12 1.20 1.64
BOWLINE___1 23526	44.43 1.43 -0.86	38.62 1.25 -0.51	34.81 1.04 -0.28	32.88 0.89 -0.17	34.19 0.83 -0.23	36.64 0.95 -0.38	45.85 1.15 -0.58	49.40 1.24 -0.31	51.43 1.32 -1.12	48.54 1.43 -1.18	46.02 1.65 -0.96	45.20 1.70 -0.92	44.40 1.79 -0.90	47.19 1.94 -1.03	48.62 2.13 -1.10	50.45 2.30 -1.18	57.33 2.46 -1.35	68.20 2.78 -0.76	69.30 2.68 -1.33	60.24 2.13 -0.47	50.49 1.46 -0.38	47.46 1.54 -0.52	46.73 1.46 -0.94	43.45 1.12 -0.77
BOWLINE___2 23595	44.43 1.43 -0.86	38.62 1.25 -0.51	34.77 1.00 -0.28	32.85 0.86 -0.17	34.16 0.79 -0.23	36.64 0.95 -0.38	45.81 1.10 -0.58	49.40 1.24 -0.31	51.43 1.32 -1.12	48.54 1.43 -1.18	45.98 1.61 -0.96	45.20 1.70 -0.92	44.36 1.75 -0.90	47.19 1.94 -1.03	48.62 2.13 -1.10	50.45 2.30 -1.18	57.33 2.46 -1.35	68.14 2.72 -0.76	69.24 2.61 -1.33	60.24 2.13 -0.47	50.49 1.46 -0.38	47.46 1.54 -0.52	46.73 1.46 -0.94	43.40 1.08 -0.77
BRADY___115KV_TB2 356060	45.61 1.10 -2.37	51.16 0.92 -13.38	54.59 0.84 -20.26	56.30 0.76 -23.71	43.24 0.80 -9.31	78.07 0.88 -41.88	90.16 1.06 -44.98	86.35 1.10 -37.40	84.65 1.08 -34.58	50.02 0.87 -3.21	44.20 0.78 0.00	45.87 0.72 -2.57	42.33 0.63 0.00	66.59 0.66 -21.71	66.63 0.59 -20.65	64.16 0.66 -16.54	84.83 0.91 -30.41	65.89 1.23 0.00	77.12 1.50 -10.33	90.32 1.44 -31.24	60.06 1.26 -10.15	56.85 1.13 -10.33	45.44 1.11 0.00	42.59 1.04 0.00
BRANSCOMB___SOLAR 323811	42.33 1.05 0.86	37.30 0.96 0.51	34.08 0.87 0.28	32.48 0.83 0.17	33.80 0.89 0.23	35.84 0.92 0.39	44.81 1.28 0.59	49.03 1.49 0.31	49.09 1.23 1.13	45.67 0.92 1.19	43.14 0.69 0.96	42.21 0.55 0.92	41.18 0.37 0.90	43.80 0.62 1.04	44.86 0.59 1.11	46.57 0.80 1.19	53.32 1.18 1.36	68.42 1.68 -2.08	76.09 1.96 -8.83	64.77 1.73 -5.41	49.82 1.56 0.39	46.36 1.50 0.53	44.58 1.20 0.95	41.64 0.87 0.78
BRDGHMPT_69_KV_BK1 55812	44.17 1.14 -0.90	38.09 0.70 -0.54	34.08 0.30 -0.28	32.06 0.06 -0.17	33.34 -0.03 -0.23	36.27 0.56 -0.40	44.72 0.00 -0.60	46.05 -0.14 1.66	46.44 0.05 2.59	46.02 0.37 0.29	44.29 1.17 0.30	45.10 1.58 -0.95	44.69 2.04 -0.93	47.23 1.95 -1.07	48.76 2.22 -1.15	50.78 2.58 -1.23	58.15 3.21 -1.43	69.15 3.69 -0.81	70.42 3.72 -1.40	61.31 3.17 -0.51	50.55 1.51 -0.39	46.59 1.36 0.16	44.15 0.98 1.16	43.73 1.37 -0.80



BRENTWOD_69_KV_W. BRTWOOD 56703	44.76 1.73 -0.90	38.72 1.33 -0.54	34.71 0.94 -0.28	32.69 0.70 -0.17	34.00 0.63 -0.23	36.84 1.13 -0.40	45.61 0.88 -0.60	46.95 0.72 1.62	47.25 0.78 2.52	46.60 0.92 0.26	44.49 1.35 0.27	45.06 1.53 -0.95	44.56 1.92 -0.93	47.09 1.81 -1.07	48.62 2.09 -1.15	50.64 2.44 -1.23	57.78 2.84 -1.43	68.57 3.10 -0.81	69.77 3.07 -1.41	60.73 2.59 -0.51	50.31 1.26 -0.39	46.52 1.27 0.15	44.27 1.06 1.12	43.77 1.41 -0.80
BRISTLHL_115KV_TB1 79998	43.80 -0.21 -1.88	38.20 -0.22 -1.56	34.72 -0.13 -1.37	32.93 -0.16 -1.26	34.25 -0.10 -1.21	37.38 -0.11 -2.18	48.15 -0.04 -4.07	52.29 0.05 -4.39	52.30 -0.05 -3.36	48.18 -0.09 -2.34	45.34 -0.09 -2.02	44.46 -0.13 -2.01	43.57 -0.08 -1.94	46.75 -0.09 -2.62	47.98 -0.09 -2.69	49.54 -0.19 -2.76	57.11 -0.16 -3.76	67.89 -0.13 -3.36	69.84 -0.07 -4.62	61.91 0.00 -4.27	51.48 0.00 -2.83	47.79 -0.09 -2.49	46.48 0.00 -2.15	43.24 -0.17 -1.86
BROOKHAVEN__DRP 24191	44.01 0.97 -0.90	38.05 0.66 -0.54	34.08 0.30 -0.28	32.06 0.06 -0.17	33.34 -0.03 -0.23	36.20 0.49 -0.40	44.81 0.09 -0.60	46.05 -0.14 1.66	46.30 -0.10 2.60	45.74 0.09 0.29	43.77 0.65 0.30	44.42 0.89 -0.95	43.93 1.29 -0.93	46.39 1.11 -1.07	47.89 1.36 -1.15	49.89 1.69 -1.23	57.03 2.09 -1.43	67.60 2.13 -0.81	68.85 2.15 -1.40	59.99 1.84 -0.51	49.63 0.58 -0.39	45.82 0.59 0.16	43.61 0.44 1.16	43.14 0.79 -0.80
BROOKLYN_NAVY_YARD 23515	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.02 1.31 -0.40	46.28 1.54 -0.61	49.94 1.63 -0.46	52.09 1.71 -1.39	49.28 1.97 -1.37	46.72 2.30 -1.00	45.97 2.43 -0.96	45.11 2.46 -0.94	47.95 2.65 -1.08	49.36 2.81 -1.16	51.26 3.05 -1.24	58.20 3.26 -1.42	69.14 3.68 -0.80	70.21 3.52 -1.40	60.96 2.82 -0.50	51.00 1.95 -0.40	47.99 2.04 -0.55	47.35 2.04 -0.99	43.90 1.54 -0.81
BROOKLYN__ARMY_DRP 323595	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	53.81 2.55 -8.67	63.40 2.46 -19.23	47.77 2.48 -1.08	65.38 2.36 -17.64	66.24 2.63 -16.65	67.63 2.84 -11.28	72.88 3.10 -5.12	73.37 2.94 -5.13	68.95 2.31 -9.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
BROOME_2_LFGE 323671	44.33 0.63 -1.56	38.49 0.55 -1.08	34.84 0.57 -0.78	32.99 0.54 -0.63	34.59 0.60 -0.86	36.96 0.60 -1.06	47.53 0.79 -2.62	51.80 0.91 -3.04	51.98 0.78 -2.21	48.61 0.73 -1.94	45.83 0.69 -1.73	44.93 0.68 -1.67	44.08 0.71 -1.67	46.88 0.84 -1.83	48.20 0.91 -1.91	49.76 0.75 -2.05	56.68 0.59 -2.58	68.13 0.65 -2.83	69.63 0.65 -3.69	61.33 0.69 -3.00	51.43 0.59 -2.19	47.79 0.50 -1.90	46.76 0.62 -1.81	43.78 0.66 -1.56
BROOME__LFGE 323600	44.33 0.63 -1.56	38.49 0.55 -1.08	34.84 0.57 -0.78	32.99 0.54 -0.63	34.59 0.60 -0.86	36.96 0.60 -1.06	47.53 0.79 -2.62	51.80 0.91 -3.04	51.98 0.78 -2.21	48.61 0.73 -1.94	45.83 0.69 -1.73	44.93 0.68 -1.67	44.08 0.71 -1.67	46.88 0.84 -1.83	48.20 0.91 -1.91	49.76 0.75 -2.05	56.68 0.59 -2.58	68.13 0.65 -2.83	69.63 0.65 -3.69	61.33 0.69 -3.00	51.43 0.59 -2.19	47.79 0.50 -1.90	46.76 0.62 -1.81	43.78 0.66 -1.56
BROWNFLS_115KV_TB 3_5 80003	45.50 1.18 -2.18	45.51 1.03 -7.62	45.35 0.84 -11.02	45.28 0.73 -12.72	39.23 0.73 -5.37	58.63 0.88 -22.44	70.36 1.24 -25.00	70.50 1.34 -21.31	69.60 1.27 -19.34	49.80 1.01 -2.85	45.03 0.56 -1.05	45.45 0.51 -2.36	43.10 0.38 -1.01	56.98 0.35 -12.41	57.56 0.27 -11.91	57.00 0.19 -9.85	71.37 0.43 -17.43	66.93 0.52 -1.75	73.87 0.91 -7.66	76.79 1.04 -18.12	56.21 0.92 -6.64	52.94 1.00 -6.55	46.43 0.98 -1.12	43.27 0.75 -0.97
BROWNSV1_27_KV_LOAD 356125	45.52 2.49 -0.90	39.53 2.14 -0.54	35.59 1.81 -0.29	33.56 1.56 -0.18	34.87 1.49 -0.24	37.37 1.66 -0.40	46.76 2.03 -0.61	50.42 2.25 -0.32	52.51 2.35 -1.17	49.66 2.48 -1.24	47.24 2.82 -1.00	46.52 2.98 -0.96	45.78 3.13 -0.94	48.43 3.14 -1.08	49.90 3.36 -1.16	51.82 3.62 -1.24	58.89 3.96 -1.42	69.86 4.40 -0.80	71.00 4.31 -1.40	61.71 3.57 -0.50	51.48 2.43 -0.40	48.53 2.59 -0.55	47.84 2.53 -0.99	44.73 2.37 -0.81
BURROWS__LYONSDAL 23803	44.64 1.26 -1.24	40.49 1.07 -2.57	37.76 0.87 -3.40	36.40 0.76 -3.81	35.71 0.73 -1.85	42.89 0.88 -6.70	53.58 1.41 -8.05	56.56 1.53 -7.18	56.71 1.42 -6.30	48.62 1.10 -1.58	44.96 0.56 -0.99	44.46 0.55 -1.33	43.03 0.38 -0.95	48.77 0.35 -4.20	49.80 0.32 -4.10	50.87 0.33 -3.58	60.14 0.70 -5.93	67.21 0.91 -1.64	70.31 1.37 -3.65	65.37 1.44 -6.30	52.62 1.22 -2.75	49.09 1.09 -2.61	46.36 0.98 -1.05	43.12 0.66 -0.91
CAITHNESS_CC_1 323624	44.05 1.01 -0.90	38.05 0.66 -0.54	34.08 0.30 -0.28	32.09 0.10 -0.17	33.37 0.00 -0.23	36.20 0.49 -0.40	44.81 0.09 -0.60	46.14 -0.05 1.66	46.39 0.00 2.60	46.34 0.69 0.29	43.77 0.65 0.30	44.46 0.94 -0.95	43.81 1.17 -0.93	46.47 1.19 -1.07	47.94 1.41 -1.15	49.89 1.69 -1.23	56.98 2.03 -1.43	67.60 2.13 -0.81	68.73 2.03 -1.40	59.93 1.79 -0.51	49.77 0.73 -0.39	45.82 0.59 0.16	43.61 0.44 1.16	42.81 0.46 -0.80
CALPINE BETH_PAGE_GT4 24209	44.34 1.31 -0.90	38.39 1.00 -0.54	34.48 0.70 -0.28	32.50 0.51 -0.17	33.80 0.43 -0.24	36.56 0.85 -0.40	45.08 0.35 -0.61	47.06 0.29 1.08	47.80 0.34 1.53	46.60 0.51 -0.16	44.50 1.04 -0.05	44.81 1.28 -0.95	44.19 1.54 -0.93	46.79 1.50 -1.07	48.26 1.72 -1.15	50.22 2.02 -1.23	57.25 2.30 -1.44	67.99 2.52 -0.81	69.12 2.42 -1.41	60.10 1.96 -0.51	49.92 0.88 -0.40	46.36 0.91 -0.06	44.45 0.71 0.59	43.19 0.83 -0.81
CALPINE_BETH_PAGE_GT_4 323586	44.34 1.31 -0.90	38.39 1.00 -0.54	34.48 0.70 -0.28	32.50 0.51 -0.17	33.80 0.43 -0.24	36.55 0.85 -0.40	45.08 0.35 -0.61	47.10 0.34 1.08	47.85 0.39 1.53	47.15 1.06 -0.16	44.50 1.04 -0.05	44.81 1.28 -0.95	44.10 1.46 -0.93	46.87 1.59 -1.07	48.30 1.77 -1.15	50.26 2.06 -1.23	57.25 2.30 -1.44	67.99 2.52 -0.81	69.12 2.42 -1.41	60.16 2.02 -0.51	50.07 1.02 -0.40	46.41 0.95 -0.06	44.49 0.75 0.59	42.89 0.54 -0.80
CALPINE_BP_GT1 23823	44.34 1.31 -0.90	38.39 1.00 -0.54	34.48 0.70 -0.28	32.50 0.51 -0.17	33.80 0.43 -0.24	36.55 0.85 -0.40	45.08 0.35 -0.61	47.10 0.34 1.08	47.85 0.39 1.53	47.15 1.06 -0.16	44.50 1.04 -0.05	44.81 1.28 -0.95	44.10 1.46 -0.93	46.87 1.59 -1.07	48.30 1.77 -1.15	50.26 2.06 -1.23	57.25 2.30 -1.44	67.99 2.52 -0.81	69.12 2.42 -1.41	60.16 2.02 -0.51	50.07 1.02 -0.40	46.41 0.95 -0.06	44.49 0.75 0.59	42.89 0.54 -0.80
CALSPAN__DRP 24200	44.22 0.84 -1.24	38.52 0.81 -0.86	35.08 0.97 -0.62	33.34 1.02 -0.50	34.94 1.13 -0.68	37.27 1.13 -0.84	47.17 0.97 -2.08	51.03 0.77 -2.41	51.04 0.29 -1.75	48.21 0.74 -1.54	45.74 0.96 -1.37	44.97 1.06 -1.33	44.03 1.00 -1.32	46.81 1.15 -1.45	48.21 1.32 -1.51	49.01 0.42 -1.62	54.87 -0.75 -2.11	65.54 -1.42 -2.31	66.80 -1.50 -3.01	58.93 -1.15 -2.45	49.86 -0.58 -1.79	46.40 -0.54 -1.55	46.07 0.27 -1.48	42.95 0.12 -1.28



CALVERTON___SOLAR 323806	44.09 1.05 -0.90	38.05 0.66 -0.54	34.04 0.27 -0.28	32.06 0.06 -0.17	33.34 -0.03 -0.23	36.24 0.53 -0.40	44.81 0.09 -0.60	46.15 -0.05 1.66	46.39 0.00 2.59	46.38 0.73 0.29	43.85 0.74 0.30	44.63 1.11 -0.95	44.02 1.37 -0.93	46.69 1.41 -1.07	48.21 1.68 -1.15	50.17 1.97 -1.23	57.41 2.46 -1.43	68.25 2.78 -0.81	69.44 2.74 -1.40	60.50 2.36 -0.51	50.16 1.12 -0.39	46.14 0.91 0.16	43.84 0.67 1.16	43.01 0.66 -0.80
CANDIGU_WT_PWR 323617	44.53 0.89 -1.51	38.75 0.85 -1.04	35.18 0.94 -0.75	33.38 0.95 -0.60	35.06 1.09 -0.83	37.46 1.13 -1.02	47.88 1.23 -2.53	52.12 1.34 -2.93	52.01 0.88 -2.13	48.55 0.73 -1.88	45.77 0.69 -1.67	44.84 0.64 -1.62	44.02 0.71 -1.61	46.82 0.84 -1.76	48.18 0.95 -1.84	49.46 0.52 -1.98	55.81 -0.16 -2.45	67.02 -0.32 -2.68	68.80 0.00 -3.50	60.84 0.35 -2.85	51.12 0.39 -2.08	47.47 0.27 -1.81	46.76 0.71 -1.72	44.16 1.12 -1.49
CARR STREET_E_SYR 24060	43.96 -0.34 -2.16	38.31 -0.30 -1.76	34.76 -0.23 -1.50	32.97 -0.22 -1.37	34.30 -0.20 -1.37	37.45 -0.21 -2.36	48.48 -0.18 -4.53	52.68 -0.10 -4.93	52.59 -0.15 -3.75	48.44 -0.18 -2.69	45.57 -0.17 -2.33	44.73 -0.17 -2.32	43.79 -0.17 -2.25	47.03 -0.13 -2.95	48.23 -0.18 -3.03	49.81 -0.28 -3.13	57.40 -0.32 -4.21	68.07 -0.45 -3.86	70.17 -0.39 -5.27	62.15 -0.29 -4.80	51.63 -0.24 -3.22	47.91 -0.32 -2.83	46.54 -0.26 -2.48	43.44 -0.25 -2.14
CARTHAGE___PAPER 23857	46.17 1.60 -2.43	42.65 1.36 -4.43	40.31 1.14 -5.68	39.11 0.99 -6.30	37.31 0.96 -3.21	47.54 1.16 -11.07	59.68 1.90 -13.67	62.35 2.10 -12.39	61.64 1.91 -10.74	50.39 1.38 -3.08	46.18 0.69 -2.07	45.79 0.60 -2.61	44.12 0.42 -2.00	51.80 0.31 -7.27	52.77 0.27 -7.12	53.57 0.28 -6.32	64.58 0.80 -10.27	69.20 1.10 -3.44	74.10 1.89 -6.91	70.68 2.07 -10.97	55.40 1.70 -5.05	51.76 1.63 -4.73	47.95 1.42 -2.21	44.58 1.12 -1.91
CASSADAGA_WT_PWR 323784	45.16 1.77 -1.25	39.34 1.62 -0.87	35.76 1.64 -0.62	34.04 1.72 -0.50	35.68 1.85 -0.69	38.13 1.98 -0.85	48.82 2.60 -2.10	53.16 2.87 -2.43	53.16 2.40 -1.77	49.97 2.48 -1.56	47.40 2.60 -1.38	46.61 2.68 -1.34	45.71 2.67 -1.33	48.47 2.79 -1.46	49.90 2.99 -1.53	50.86 2.25 -1.64	57.03 1.34 -2.18	67.43 0.39 -2.38	68.86 0.46 -3.11	60.86 0.69 -2.53	51.37 0.88 -1.85	47.63 0.64 -1.60	47.23 1.38 -1.53	44.99 2.12 -1.32
CE_DUNWOOD___DRP 24194	44.72 1.69 -0.90	38.86 1.47 -0.54	34.99 1.21 -0.29	33.02 1.02 -0.18	34.34 0.96 -0.24	36.84 1.13 -0.40	46.05 1.32 -0.61	49.61 1.44 -0.32	51.68 1.52 -1.17	48.78 1.61 -1.24	46.33 1.91 -1.00	45.54 2.00 -0.96	44.82 2.17 -0.94	47.46 2.17 -1.08	48.90 2.36 -1.16	50.79 2.58 -1.24	57.71 2.78 -1.42	68.50 3.04 -0.80	69.63 2.94 -1.39	60.55 2.42 -0.50	50.66 1.61 -0.40	47.67 1.72 -0.55	47.00 1.68 -0.98	43.98 1.62 -0.81
CE_MILLWOOD___DRP 24193	44.59 1.56 -0.89	38.75 1.36 -0.53	34.92 1.14 -0.29	32.95 0.95 -0.17	34.27 0.89 -0.24	36.77 1.06 -0.40	45.96 1.24 -0.61	49.51 1.34 -0.32	51.58 1.42 -1.17	48.64 1.47 -1.23	46.19 1.78 -1.00	45.41 1.87 -0.96	44.65 2.00 -0.94	47.32 2.03 -1.07	48.76 2.22 -1.15	50.64 2.44 -1.23	57.55 2.62 -1.41	68.36 2.91 -0.80	69.49 2.81 -1.39	60.38 2.25 -0.50	50.56 1.51 -0.40	47.57 1.63 -0.55	46.86 1.55 -0.98	43.90 1.54 -0.81
CE_NYC2_DRP 24202	44.93 1.90 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.01 1.31 -0.40	46.06 1.32 -0.61	49.75 1.58 -0.32	51.78 1.62 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	46.48 2.43 -1.48	46.46 2.59 -2.17	47.86 2.56 -1.08	50.23 2.59 -2.26	52.05 2.82 -2.27	58.64 3.05 -2.08	69.05 3.30 -1.09	70.07 3.13 -1.65	61.24 2.54 -1.07	50.61 1.56 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	44.27 1.91 -0.81
CE_NYC_DRP 24195	45.10 2.06 -0.90	39.23 1.84 -0.54	35.32 1.54 -0.29	33.30 1.30 -0.18	34.60 1.23 -0.24	37.09 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.07 1.91 -1.17	49.20 2.02 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.36 2.71 -0.94	47.99 2.70 -1.08	49.40 2.86 -1.16	51.30 3.10 -1.24	58.30 3.37 -1.42	69.14 3.69 -0.80	70.22 3.53 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.07 2.13 -0.55	47.40 2.08 -0.99	44.36 1.99 -0.81
CHAFFEE___LFGE 323603	44.31 0.93 -1.25	38.57 0.85 -0.87	35.09 0.97 -0.62	33.37 1.05 -0.50	34.95 1.13 -0.69	37.32 1.16 -0.85	47.27 1.06 -2.10	51.43 1.15 -2.43	51.49 0.74 -1.77	48.41 0.92 -1.55	45.88 1.09 -1.38	45.11 1.19 -1.34	44.25 1.21 -1.33	46.96 1.28 -1.46	48.32 1.41 -1.52	49.31 0.71 -1.64	55.25 -0.43 -2.17	65.66 -1.36 -2.37	67.01 -1.37 -3.09	59.23 -0.92 -2.52	50.10 -0.39 -1.84	46.53 -0.45 -1.59	46.20 0.35 -1.52	44.07 1.21 -1.31
CHATEAUG_35_KV_LOAD 355732	43.04 0.63 -0.27	38.82 0.44 -1.52	36.23 0.44 -2.30	34.93 0.41 -2.69	34.62 0.43 -1.06	40.59 0.53 -4.76	49.23 0.00 -5.11	51.91 -0.19 -4.25	52.96 0.05 -3.93	46.39 0.09 -0.36	43.41 0.00 0.00	42.74 -0.13 -0.29	41.37 -0.33 0.00	46.50 -0.18 -2.47	46.96 -0.77 -2.35	48.04 -0.80 -1.88	56.32 -0.64 -3.45	64.40 -0.26 0.00	66.60 0.13 -1.17	61.53 0.35 -3.55	50.19 0.39 -1.15	46.88 0.32 -1.17	44.73 0.40 0.00	42.34 0.79 0.00
CHATEAUG_WT_PWR 323614	42.83 0.59 -0.10	37.89 0.44 -0.59	34.82 0.43 -0.89	33.28 0.41 -1.05	33.94 0.40 -0.41	37.65 0.49 -1.85	45.97 -0.13 -1.98	49.12 -0.38 -1.65	50.42 -0.10 -1.53	46.08 0.00 -0.14	43.33 -0.09 0.00	42.48 -0.21 -0.11	41.71 0.00 0.00	44.55 -0.62 -0.96	45.43 -0.86 -0.91	46.75 -0.94 -0.73	54.05 -0.80 -1.34	64.21 -0.45 0.00	65.62 -0.13 -0.46	59.13 0.12 -1.38	49.24 0.15 -0.45	46.03 0.18 -0.46	44.99 0.67 0.00	42.80 1.25 0.00
CHAT_HIGH_FALL_HYD 323578	43.04 0.63 -0.27	38.82 0.44 -1.52	36.23 0.44 -2.30	34.93 0.41 -2.69	34.62 0.43 -1.06	40.59 0.53 -4.76	49.23 0.00 -5.11	51.91 -0.19 -4.25	52.96 0.05 -3.93	46.39 0.09 -0.36	43.41 0.00 0.00	42.74 -0.13 -0.29	41.37 -0.33 0.00	46.50 -0.18 -2.47	46.96 -0.77 -2.35	48.04 -0.80 -1.88	56.32 -0.64 -3.45	64.40 -0.26 0.00	66.60 0.13 -1.17	61.53 0.35 -3.55	50.19 0.39 -1.15	46.88 0.32 -1.17	44.73 0.40 0.00	42.34 0.79 0.00
CHAUTAUQUA___LFGE 323629	44.82 1.43 -1.24	39.04 1.32 -0.86	35.52 1.41 -0.62	33.79 1.46 -0.50	35.41 1.59 -0.68	37.81 1.66 -0.84	47.93 1.72 -2.09	52.13 1.86 -2.42	52.12 1.37 -1.76	49.00 1.51 -1.55	46.44 1.65 -1.38	45.66 1.75 -1.33	44.79 1.75 -1.33	47.57 1.90 -1.45	48.99 2.09 -1.52	49.91 1.31 -1.63	55.99 0.32 -2.15	66.69 -0.32 -2.35	68.04 -0.32 -3.07	60.14 0.00 -2.50	50.77 0.29 -1.83	47.16 0.18 -1.58	46.77 0.93 -1.51	44.60 1.74 -1.30
CHERRYST_13_KV_LD 356241	45.27 2.23 -0.90	39.34 1.95 -0.54	35.42 1.64 -0.29	33.40 1.40 -0.18	34.70 1.33 -0.24	37.19 1.48 -0.40	46.50 1.76 -0.61	50.14 1.96 -0.32	52.27 2.11 -1.17	49.38 2.20 -1.24	47.02 2.60 -1.00	46.27 2.73 -0.96	45.53 2.88 -0.94	48.21 2.92 -1.08	49.63 3.09 -1.16	51.54 3.33 -1.24	58.57 3.64 -1.42	69.47 4.01 -0.80	70.48 3.79 -1.40	61.24 3.11 -0.50	51.14 2.09 -0.40	48.21 2.27 -0.55	47.57 2.26 -0.99	44.48 2.12 -0.81



CHESTROR_138KV_BK263 355645	44.15 1.22 -0.79	38.40 1.07 -0.47	34.59 0.84 -0.26	32.71 0.73 -0.15	34.04 0.70 -0.21	36.44 0.78 -0.35	45.63 0.97 -0.54	49.14 1.00 -0.28	51.06 1.03 -1.04	48.09 1.06 -1.09	45.60 1.30 -0.89	44.79 1.36 -0.85	44.04 1.50 -0.83	46.67 1.50 -0.95	48.08 1.68 -1.02	49.99 1.93 -1.10	56.80 2.03 -1.26	67.63 2.26 -0.71	68.75 2.22 -1.23	59.86 1.79 -0.44	50.17 1.17 -0.36	47.19 1.32 -0.49	46.44 1.24 -0.87	43.47 1.20 -0.72
CH_MIDHUDSON___DRP 24192	44.09 1.35 -0.60	38.36 1.14 -0.36	34.62 0.94 -0.19	32.77 0.83 -0.12	34.06 0.76 -0.16	36.46 0.88 -0.27	45.63 1.10 -0.41	49.22 1.15 -0.22	50.95 1.18 -0.79	47.96 1.19 -0.83	45.52 1.43 -0.67	44.67 1.45 -0.64	43.92 1.58 -0.63	46.53 1.59 -0.72	47.93 1.77 -0.78	49.86 2.07 -0.83	56.66 2.19 -0.95	67.72 2.52 -0.54	68.64 2.42 -0.93	59.93 1.96 -0.33	50.28 1.36 -0.27	47.26 1.50 -0.37	46.36 1.37 -0.66	43.42 1.33 -0.54
CH_MISC_IPPS 23765	44.47 1.64 -0.69	38.67 1.40 -0.41	34.89 1.17 -0.22	32.98 1.02 -0.13	34.31 0.99 -0.19	36.74 1.13 -0.31	46.00 1.41 -0.47	49.63 1.53 -0.25	51.46 1.57 -0.90	48.45 1.56 -0.95	45.92 1.74 -0.77	45.02 1.70 -0.74	44.18 1.75 -0.72	46.99 1.94 -0.83	48.40 2.13 -0.89	50.36 2.44 -0.95	57.17 2.57 -1.09	68.31 3.04 -0.61	69.37 3.01 -1.07	60.44 2.42 -0.38	50.76 1.80 -0.31	47.72 1.91 -0.42	46.86 1.77 -0.76	43.59 1.41 -0.62
CH_RES_BVR_FALLS 23983	41.91 -0.17 0.06	36.35 -0.15 0.36	32.82 -0.13 0.54	31.07 -0.13 0.63	32.75 -0.13 0.25	34.09 -0.11 1.11	42.75 -0.18 1.20	46.67 -0.19 0.99	47.92 -0.15 0.92	45.76 -0.09 0.09	43.28 -0.13 0.00	42.34 -0.17 0.07	41.50 -0.21 0.00	43.33 -0.31 0.58	44.47 -0.36 0.55	46.15 -0.38 0.44	52.33 -0.37 0.81	64.34 -0.32 0.00	64.76 -0.26 0.27	56.57 -0.23 0.83	48.14 -0.24 0.27	44.94 -0.18 0.27	44.20 -0.13 0.00	41.51 -0.04 0.00
CH_RES_NIAGARA 23895	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.32 -0.86 -2.33	49.31 -1.37 -1.70	46.65 -0.78 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.61 -0.38 -1.28	45.35 -0.27 -1.40	46.66 -0.18 -1.46	47.36 -0.17 -1.57	52.87 -2.68 -2.03	63.07 -3.81 -2.22	64.21 -3.98 -2.90	56.66 -3.34 -2.37	48.04 -2.34 -1.73	44.85 -2.04 -1.50	44.65 -1.11 -1.43	42.41 -0.37 -1.23
CH_RES_SYRACUSE 23985	45.31 0.08 -3.08	39.26 0.04 -2.36	35.50 0.10 -1.91	33.60 0.10 -1.68	35.12 0.13 -1.85	38.31 0.14 -2.87	50.35 0.27 -5.97	54.86 0.38 -6.63	54.30 0.35 -4.97	50.06 0.28 -3.84	46.99 0.22 -3.36	46.10 0.21 -3.31	45.20 0.25 -3.24	48.50 0.31 -3.97	49.72 0.23 -4.11	51.40 0.14 -4.30	59.33 0.16 -5.66	70.39 0.19 -5.54	73.05 0.33 -7.43	64.42 0.29 -6.49	53.39 0.24 -4.49	49.46 0.14 -3.93	48.10 0.22 -3.55	44.78 0.17 -3.07
CLINTON_WT_PWR 323605	42.83 0.59 -0.10	37.89 0.44 -0.59	34.82 0.43 -0.89	33.28 0.41 -1.05	33.94 0.40 -0.41	37.65 0.49 -1.85	45.97 -0.13 -1.98	49.12 -0.38 -1.65	50.42 -0.10 -1.53	46.08 0.00 -0.14	43.33 -0.09 0.00	42.48 -0.21 -0.11	41.71 0.00 0.00	44.55 -0.62 -0.96	45.43 -0.86 -0.91	46.75 -0.94 -0.73	54.05 -0.80 -1.34	64.21 -0.45 0.00	65.62 -0.13 -0.46	59.13 0.12 -1.38	49.24 0.15 -0.45	46.03 0.18 -0.46	44.99 0.67 0.00	42.80 1.25 0.00
CLINTON___LFGE 323618	43.52 1.22 -0.16	38.69 0.92 -0.91	35.78 0.90 -1.38	34.30 0.86 -1.62	34.63 0.86 -0.64	39.19 1.02 -2.86	47.37 0.18 -3.07	50.26 -0.14 -2.56	51.50 0.15 -2.36	46.39 0.23 -0.22	43.50 0.09 0.00	42.71 -0.04 -0.18	42.00 0.29 0.00	45.12 -0.58 -1.48	45.93 -0.86 -1.41	47.16 -0.94 -1.13	54.84 -0.75 -2.08	64.53 -0.13 0.00	66.26 0.26 -0.71	60.35 0.58 -2.14	49.88 0.54 -0.69	46.60 0.50 -0.71	45.53 1.20 0.00	43.59 2.04 0.00
COBBLENY_34_KV_TB1 80064	44.31 0.93 -1.25	38.57 0.85 -0.87	35.09 0.97 -0.62	33.38 1.05 -0.50	34.95 1.13 -0.69	37.32 1.17 -0.85	47.27 1.06 -2.10	51.24 0.96 -2.43	51.25 0.49 -1.77	48.36 0.87 -1.55	45.88 1.09 -1.38	45.11 1.19 -1.34	44.17 1.13 -1.33	46.96 1.28 -1.46	48.36 1.45 -1.52	49.16 0.56 -1.64	55.06 -0.59 -2.14	65.77 -1.23 -2.34	67.04 -1.31 -3.05	59.08 -1.04 -2.49	50.03 -0.44 -1.82	46.51 -0.45 -1.58	46.18 0.35 -1.50	43.01 0.17 -1.29
COFFEEN___115KV_TB3 355620	46.91 2.06 -2.71	42.81 1.81 -4.15	40.07 1.54 -5.04	38.65 1.34 -5.48	37.50 1.33 -3.04	46.55 1.62 -9.62	59.15 2.56 -12.47	62.28 2.82 -11.61	61.41 2.55 -9.87	51.29 1.93 -3.42	47.12 1.22 -2.49	46.60 1.11 -2.91	44.99 0.88 -2.40	51.84 0.80 -6.83	52.85 0.73 -6.74	53.86 0.75 -6.15	64.63 1.44 -9.67	70.75 1.94 -4.15	75.71 3.00 -7.41	71.20 3.11 -10.45	56.46 2.63 -5.18	52.54 2.36 -4.79	49.12 2.13 -2.66	45.34 1.50 -2.30
COLDSPRG_115KV_BK1 355956	45.13 1.73 -1.26	39.31 1.58 -0.88	35.70 1.57 -0.63	33.99 1.65 -0.51	35.62 1.79 -0.70	38.10 1.94 -0.85	49.02 2.78 -2.12	53.18 2.87 -2.46	50.17 2.66 -1.79	47.63 2.82 -1.57	46.83 2.90 -1.40	45.81 2.75 -1.35	48.65 2.96 -1.48	50.19 3.27 -1.54	51.01 2.40 -1.65	57.16 1.44 -2.20	67.71 0.65 -2.41	69.02 0.59 -3.14	60.88 0.69 -2.56	51.44 0.92 -1.87	47.65 0.64 -1.62	47.25 1.37 -1.54	43.92 1.04 -1.33	
COLONIE_LFGE___ 323577	41.79 0.67 1.02	36.87 0.63 0.61	33.70 0.53 0.33	32.13 0.51 0.20	33.39 0.53 0.27	35.41 0.56 0.46	44.22 0.79 0.69	48.39 0.91 0.37	48.49 0.83 1.33	45.22 0.69 1.40	42.88 0.61 1.14	42.04 0.55 1.09	41.14 0.50 1.07	43.61 0.62 1.22	44.75 0.68 1.31	46.40 0.85 1.41	53.02 1.13 1.61	69.80 1.42 -3.72	81.67 1.43 -14.95	67.79 1.15 -9.01	49.17 0.97 0.46	45.77 1.00 0.62	43.96 0.75 1.12	41.13 0.50 0.92
COOPERNY_115KV_TB1 80082	43.77 1.01 -0.62	38.11 0.88 -0.37	34.40 0.70 -0.20	32.58 0.64 -0.12	33.90 0.60 -0.17	36.22 0.64 -0.28	45.34 0.79 -0.42	48.89 0.81 -0.22	50.63 0.83 -0.81	47.66 0.87 -0.85	45.19 1.09 -0.69	44.39 1.15 -0.66	43.61 1.25 -0.65	46.24 1.28 -0.74	47.59 1.41 -0.80	49.37 1.55 -0.85	56.15 1.66 -0.98	67.02 1.81 -0.55	68.02 1.76 -0.96	59.42 1.44 -0.34	49.90 0.97 -0.28	46.86 1.09 -0.38	46.03 1.02 -0.68	43.07 0.96 -0.56
COPENHAGEN_WT_PWR 323753	46.57 1.64 -2.79	42.33 1.40 -4.07	39.57 1.20 -4.87	38.14 1.05 -5.27	37.16 1.03 -2.99	45.81 1.27 -9.23	58.30 2.03 -12.15	61.55 2.30 -11.40	60.68 2.06 -9.64	51.01 1.56 -3.51	46.93 0.91 -2.60	46.42 0.85 -2.99	44.88 0.67 -2.51	51.50 0.57 -6.71	52.52 0.50 -6.64	53.58 0.52 -6.10	64.03 1.01 -9.51	70.35 1.36 -4.33	75.11 2.28 -7.53	70.30 2.36 -10.30	55.85 2.00 -5.21	52.01 1.82 -4.80	48.74 1.64 -2.77	45.23 1.29 -2.39
CORNELL_____ 23752	45.22 1.05 -2.03	39.18 0.92 -1.41	35.41 0.90 -1.02	33.47 0.83 -0.81	35.18 0.93 -1.12	37.67 0.99 -1.38	48.90 1.37 -3.41	53.34 1.53 -3.95	53.24 1.37 -2.88	49.61 1.15 -2.53	46.66 1.00 -2.25	45.70 0.94 -2.18	44.79 0.92 -2.17	47.61 1.02 -2.38	48.91 1.04 -2.48	50.61 0.99 -2.66	58.00 1.07 -3.42	69.82 1.42 -3.74	71.87 1.70 -4.88	63.22 1.61 -3.97	52.91 1.36 -2.90	49.04 1.13 -2.52	47.92 1.20 -2.40	44.53 0.91 -2.07



CORONA_69_KV_TB1 355595	44.85 1.81 -0.90	38.90 1.51 -0.54	34.92 1.14 -0.29	32.95 0.95 -0.17	34.23 0.86 -0.24	36.94 1.24 -0.40	45.83 1.10 -0.61	49.33 1.05 -0.43	51.30 1.13 -1.19	48.60 1.29 -1.37	46.07 1.82 -0.83	45.58 2.04 -0.95	44.94 2.29 -0.94	47.68 2.39 -1.07	49.17 2.63 -1.15	51.16 2.96 -1.24	58.23 3.26 -1.45	69.10 3.62 -0.82	70.23 3.53 -1.41	61.20 3.05 -0.51	50.90 1.85 -0.40	47.83 1.77 -0.67	46.54 1.51 -0.71	43.90 1.54 -0.81
CORTLAND_115KV_TB3 80093	45.16 1.01 -2.01	39.44 0.85 -1.74	35.90 0.84 -1.57	34.04 0.73 -1.48	35.27 0.80 -1.34	38.78 0.92 -2.56	50.12 1.41 -4.59	54.36 1.63 -4.88	54.33 1.57 -3.77	49.77 1.33 -2.50	46.64 1.09 -2.14	45.75 1.02 -2.15	44.77 1.00 -2.06	48.19 1.06 -2.91	49.36 1.00 -2.98	50.98 0.99 -3.03	59.02 1.34 -4.17	69.91 1.68 -3.57	72.28 2.02 -4.96	64.26 1.90 -4.72	53.28 1.56 -3.07	49.37 1.27 -2.71	47.90 1.29 -2.29	44.48 0.96 -1.97
COXSACKIE___GT 23611	43.52 1.64 0.26	38.10 1.40 0.15	34.65 1.24 0.08	32.92 1.14 0.05	34.35 1.29 0.07	36.64 1.45 0.12	46.02 2.07 0.18	50.05 2.30 0.09	50.41 1.76 0.34	46.50 0.92 0.36	43.65 0.52 0.29	42.43 0.13 0.28	41.44 0.00 0.27	42.89 -1.02 0.31	44.14 -0.91 0.33	47.35 0.75 0.36	54.33 1.23 0.41	65.23 2.26 1.69	62.41 2.74 5.62	56.78 2.31 3.17	50.48 1.95 0.12	47.18 1.95 0.16	45.55 1.51 0.28	43.19 1.87 0.23
CPV_VALLEY___CC1 323721	43.80 0.93 -0.73	38.10 0.81 -0.44	34.36 0.63 -0.24	32.54 0.57 -0.14	33.86 0.53 -0.20	36.20 0.56 -0.33	45.32 0.70 -0.50	48.88 0.76 -0.26	50.73 0.78 -0.96	47.82 0.87 -1.01	45.27 1.04 -0.82	44.47 1.11 -0.78	43.64 1.17 -0.77	46.42 1.33 -0.88	47.78 1.45 -0.95	49.57 1.60 -1.01	56.33 1.66 -1.16	67.19 1.88 -0.65	68.20 1.76 -1.14	59.42 1.38 -0.41	49.90 0.92 -0.33	46.89 1.04 -0.45	46.11 0.97 -0.80	42.88 0.66 -0.66
CPV_VALLEY___CC2 323722	43.80 0.93 -0.73	38.10 0.81 -0.44	34.36 0.63 -0.24	32.54 0.57 -0.14	33.86 0.53 -0.20	36.20 0.56 -0.33	45.32 0.70 -0.50	48.88 0.76 -0.26	50.73 0.78 -0.96	47.82 0.87 -1.01	45.27 1.04 -0.82	44.47 1.11 -0.78	43.64 1.17 -0.77	46.42 1.33 -0.88	47.78 1.45 -0.95	49.57 1.60 -1.01	56.33 1.66 -1.16	67.19 1.88 -0.65	68.20 1.76 -1.14	59.42 1.38 -0.41	49.90 0.92 -0.33	46.89 1.04 -0.45	46.11 0.97 -0.80	42.88 0.66 -0.66
CRESCENT___HYD 24018	41.79 0.67 1.02	36.87 0.63 0.61	33.70 0.53 0.33	32.13 0.51 0.20	33.39 0.53 0.27	35.41 0.56 0.46	44.22 0.79 0.69	48.39 0.91 0.37	48.49 0.83 1.33	45.22 0.69 1.40	42.88 0.61 1.14	42.04 0.55 1.09	41.14 0.50 1.07	43.61 0.62 1.22	44.75 0.68 1.31	46.40 0.85 1.41	53.02 1.13 1.61	69.80 1.42 -3.72	81.67 1.43 -14.95	67.79 1.15 -9.01	49.17 0.97 0.46	45.77 1.00 0.62	43.96 0.75 1.12	41.13 0.50 0.92
CRICKET___VALLEY_CC1 323756	29.02 0.63 13.75	29.20 0.55 8.21	29.44 0.40 4.45	29.46 0.32 2.68	29.66 0.23 3.71	29.48 0.32 6.14	35.10 0.35 9.37	43.34 0.43 4.94	31.45 0.44 17.98	27.54 0.55 18.95	28.80 0.74 15.35	28.69 0.81 14.70	28.19 0.88 14.40	28.67 0.97 16.52	28.74 1.09 17.73	29.24 1.27 18.99	33.09 1.34 21.76	53.82 1.42 12.25	45.23 1.31 21.37	50.99 0.98 7.62	43.08 0.59 6.15	37.71 0.72 8.41	29.87 0.62 15.08	29.45 0.33 12.44
CRICKET___VALLEY_CC2 323757	29.02 0.63 13.75	29.20 0.55 8.21	29.44 0.40 4.45	29.46 0.32 2.68	29.66 0.23 3.71	29.48 0.32 6.14	35.10 0.35 9.37	43.34 0.43 4.94	31.45 0.44 17.98	27.54 0.55 18.95	28.80 0.74 15.35	28.69 0.81 14.70	28.19 0.88 14.40	28.67 0.97 16.52	28.74 1.09 17.73	29.24 1.27 18.99	33.09 1.34 21.76	53.82 1.42 12.25	45.23 1.31 21.37	50.99 0.98 7.62	43.08 0.59 6.15	37.71 0.72 8.41	29.87 0.62 15.08	29.45 0.33 12.44
CRICKET___VALLEY_CC3 323758	29.02 0.63 13.75	29.20 0.55 8.21	29.44 0.40 4.45	29.46 0.32 2.68	29.66 0.23 3.71	29.48 0.32 6.14	35.10 0.35 9.37	43.34 0.43 4.94	31.45 0.44 17.98	27.54 0.55 18.95	28.80 0.74 15.35	28.69 0.81 14.70	28.19 0.88 14.40	28.67 0.97 16.52	28.74 1.09 17.73	29.24 1.27 18.99	33.09 1.34 21.76	53.82 1.42 12.25	45.23 1.31 21.37	50.99 0.98 7.62	43.08 0.59 6.15	37.71 0.72 8.41	29.87 0.62 15.08	29.45 0.33 12.44
CRUCIBLE_METL_DRP 24180	45.31 0.08 -3.08	39.26 0.04 -2.36	35.50 0.10 -1.91	33.60 0.10 -1.68	35.12 0.13 -1.85	38.31 0.14 -2.87	50.35 0.26 -5.97	54.82 0.33 -6.63	54.25 0.29 -4.97	50.05 0.28 -3.84	46.99 0.22 -3.36	46.10 0.21 -3.31	45.20 0.25 -3.24	48.45 0.27 -3.97	49.72 0.23 -4.11	51.40 0.14 -4.30	59.38 0.16 -5.71	70.45 0.19 -5.60	73.12 0.33 -7.50	64.48 0.29 -6.55	53.43 0.24 -4.54	49.50 0.14 -3.97	48.14 0.22 -3.59	44.69 0.04 -3.10
DAHOWA___HYDRO 323763	42.45 1.14 0.83	37.43 1.07 0.49	34.20 0.97 0.27	32.59 0.92 0.16	33.90 0.99 0.22	35.96 1.02 0.37	44.93 1.37 0.56	49.18 1.63 0.30	49.23 1.32 1.08	45.81 1.01 1.14	43.28 0.78 0.92	42.34 0.64 0.88	41.26 0.42 0.86	43.89 0.66 0.99	44.95 0.64 1.06	46.67 0.85 1.14	53.49 1.28 1.31	68.37 1.88 -1.84	75.34 2.15 -7.90	64.33 1.84 -4.86	49.98 1.70 0.37	46.52 1.63 0.50	44.71 1.29 0.90	41.76 0.96 0.75
DANC___LFGE 323619	46.18 0.84 -3.20	41.25 0.74 -3.66	38.07 0.63 -3.94	36.41 0.51 -4.08	36.41 0.53 -2.74	43.09 0.67 -7.11	55.67 1.15 -10.40	59.44 1.34 -10.25	58.52 1.17 -8.36	50.78 0.83 -4.01	47.06 0.43 -3.22	46.35 0.34 -3.43	45.06 0.25 -3.10	50.46 0.18 -6.07	51.60 0.14 -6.08	52.94 0.14 -5.84	62.51 0.38 -8.63	70.52 0.51 -5.35	74.65 1.11 -8.25	68.37 1.21 -9.52	55.07 1.02 -5.40	51.26 1.00 -4.87	48.64 0.89 -3.43	45.17 0.66 -2.96
DANSKAMMER___1 23586	44.47 1.64 -0.69	38.67 1.40 -0.41	34.89 1.17 -0.22	32.98 1.02 -0.13	34.31 0.99 -0.19	36.74 1.13 -0.31	46.00 1.41 -0.47	49.63 1.53 -0.25	51.46 1.57 -0.90	48.45 1.56 -0.95	45.92 1.74 -0.77	45.02 1.70 -0.74	44.18 1.75 -0.72	46.99 1.94 -0.83	48.40 2.13 -0.89	50.36 2.44 -0.95	57.17 2.57 -1.09	68.31 3.04 -0.61	69.37 3.01 -1.07	60.44 2.42 -0.38	50.76 1.80 -0.31	47.72 1.91 -0.42	46.86 1.77 -0.76	43.59 1.41 -0.62
DANSKAMMER___2 23589	44.47 1.64 -0.69	38.67 1.40 -0.41	34.89 1.17 -0.22	32.98 1.02 -0.13	34.31 0.99 -0.19	36.74 1.13 -0.31	46.00 1.41 -0.47	49.63 1.53 -0.25	51.46 1.57 -0.90	48.45 1.56 -0.95	45.92 1.74 -0.77	45.02 1.70 -0.74	44.18 1.75 -0.72	46.99 1.94 -0.83	48.40 2.13 -0.89	50.36 2.44 -0.95	57.17 2.57 -1.09	68.31 3.04 -0.61	69.37 3.01 -1.07	60.44 2.42 -0.38	50.76 1.80 -0.31	47.72 1.91 -0.42	46.86 1.77 -0.76	43.59 1.41 -0.62
DANSKAMMER___3 23590	44.47 1.64 -0.69	38.67 1.40 -0.41	34.89 1.17 -0.22	32.98 1.02 -0.13	34.31 0.99 -0.19	36.74 1.13 -0.31	46.00 1.41 -0.47	49.63 1.53 -0.25	51.46 1.57 -0.90	48.45 1.56 -0.95	45.92 1.74 -0.77	45.02 1.70 -0.74	44.18 1.75 -0.72	46.99 1.94 -0.83	48.40 2.13 -0.89	50.36 2.44 -0.95	57.17 2.57 -1.09	68.31 3.04 -0.61	69.37 3.01 -1.07	60.44 2.42 -0.38	50.76 1.80 -0.31	47.72 1.91 -0.42	46.86 1.77 -0.76	43.59 1.41 -0.62



DANSKAMMER___4 23591	44.47 1.64 -0.69	38.67 1.40 -0.41	34.89 1.17 -0.22	32.98 1.02 -0.13	34.31 0.99 -0.19	36.74 1.13 -0.31	46.00 1.41 -0.47	49.63 1.53 -0.25	51.46 1.57 -0.90	48.45 1.56 -0.95	45.92 1.74 -0.77	45.02 1.70 -0.74	44.18 1.75 -0.72	46.99 1.94 -0.83	48.40 2.13 -0.89	50.36 2.44 -0.95	57.17 2.57 -1.09	68.31 3.04 -0.61	69.37 3.01 -1.07	60.44 2.42 -0.38	50.76 1.80 -0.31	47.72 1.91 -0.42	46.86 1.77 -0.76	43.59 1.41 -0.62
DANSKAMMER___DIESEL 23592	44.47 1.64 -0.69	38.67 1.40 -0.41	34.89 1.17 -0.22	32.98 1.02 -0.13	34.31 0.99 -0.19	36.74 1.13 -0.31	46.00 1.41 -0.47	49.58 1.48 -0.25	51.41 1.52 -0.90	48.36 1.47 -0.95	45.92 1.74 -0.77	45.02 1.70 -0.74	44.22 1.79 -0.72	46.94 1.90 -0.83	48.31 2.04 -0.89	50.31 2.40 -0.95	57.17 2.57 -1.09	68.25 2.97 -0.61	69.30 2.94 -1.07	60.44 2.42 -0.38	50.71 1.75 -0.31	47.67 1.86 -0.42	46.81 1.73 -0.76	43.84 1.66 -0.62
DARBY___SOLAR 323810	42.29 1.01 0.86	37.30 0.96 0.51	34.08 0.87 0.28	32.48 0.83 0.17	33.80 0.89 0.23	35.84 0.92 0.38	44.77 1.23 0.59	48.98 1.43 0.31	49.04 1.17 1.13	45.67 0.92 1.19	43.15 0.69 0.96	42.21 0.55 0.92	41.18 0.37 0.90	43.75 0.57 1.03	44.86 0.59 1.11	46.57 0.80 1.19	53.32 1.18 1.36	68.47 1.75 -2.07	76.11 2.03 -8.79	64.69 1.67 -5.39	49.77 1.51 0.39	46.36 1.50 0.53	44.58 1.20 0.94	41.65 0.87 0.78
DASHVILLE___HYD 23610	44.10 1.52 -0.44	38.41 1.29 -0.26	34.71 1.07 -0.14	32.87 0.95 -0.09	34.18 0.93 -0.12	36.53 1.02 -0.20	45.74 1.32 -0.30	49.40 1.39 -0.16	50.94 1.37 -0.58	47.88 1.33 -0.61	45.47 1.56 -0.49	44.58 1.53 -0.47	43.84 1.67 -0.46	46.47 1.72 -0.53	47.86 1.91 -0.57	49.83 2.25 -0.61	56.61 2.41 -0.70	67.64 2.91 -0.07	67.62 2.81 0.48	59.51 2.31 0.43	50.50 1.65 -0.20	47.43 1.77 -0.27	46.50 1.68 -0.48	43.53 1.58 -0.40
DELAWARE___LFGE 323621	43.96 1.01 -0.81	38.30 0.88 -0.56	34.67 0.77 -0.40	32.88 0.73 -0.32	34.31 0.73 -0.45	36.63 0.78 -0.55	46.54 1.06 -1.36	50.58 1.15 -1.58	51.26 1.13 -1.15	47.96 1.01 -1.01	45.35 1.04 -0.90	44.47 1.02 -0.87	43.57 1.00 -0.86	46.18 1.02 -0.95	47.51 1.13 -0.99	49.20 1.17 -1.06	56.21 1.34 -1.36	67.70 1.55 -1.49	68.81 1.57 -1.95	60.60 1.38 -1.59	50.97 1.17 -1.16	47.53 1.13 -1.00	46.39 1.11 -0.96	43.33 0.96 -0.83
DERFIELD_115KV_TB7 355931	42.27 0.08 -0.04	37.17 0.07 -0.24	33.89 0.03 -0.37	32.29 0.03 -0.43	33.34 0.03 -0.17	36.10 0.04 -0.76	45.03 0.09 -0.82	48.63 0.10 -0.68	49.71 0.10 -0.63	46.04 0.05 -0.06	43.46 0.04 0.00	42.67 0.04 -0.05	41.75 0.04 0.00	44.65 0.04 -0.39	45.80 0.05 -0.38	47.36 0.09 -0.30	54.17 0.11 -0.55	64.79 0.13 0.00	65.61 0.13 -0.19	58.32 0.12 -0.57	48.93 0.10 -0.18	45.67 0.09 -0.19	44.42 0.09 0.00	41.63 0.08 0.00
DOGLEVILLE___HYD 23807	42.48 0.29 -0.04	37.32 0.22 -0.24	33.99 0.13 -0.37	32.35 0.10 -0.43	33.37 0.07 -0.17	36.21 0.14 -0.76	45.29 0.35 -0.82	48.77 0.24 -0.68	49.76 0.15 -0.63	46.09 0.09 -0.06	43.50 0.09 0.00	42.80 0.17 -0.05	41.67 -0.04 0.00	44.34 -0.27 -0.39	45.39 -0.36 -0.38	46.84 -0.42 -0.30	53.85 -0.21 -0.55	64.34 -0.32 0.00	65.55 0.07 -0.19	58.37 0.17 -0.57	48.98 0.15 -0.18	46.03 0.45 -0.19	44.82 0.49 0.00	41.92 0.37 0.00
DUNKIRK___115KV_TB_200 55889	44.73 1.35 -1.24	38.97 1.25 -0.86	35.45 1.34 -0.62	33.72 1.40 -0.50	35.34 1.52 -0.68	37.74 1.59 -0.84	47.79 1.59 -2.09	51.75 1.48 -2.42	51.73 0.98 -1.76	48.77 1.29 -1.55	46.31 1.52 -1.37	45.53 1.62 -1.33	44.58 1.54 -1.33	47.44 1.77 -1.45	48.90 2.00 -1.52	49.67 1.08 -1.63	55.58 -0.05 -2.12	66.59 -0.39 -2.32	67.86 -0.46 -3.03	59.87 -0.23 -2.47	50.64 0.19 -1.80	47.04 0.09 -1.56	46.70 0.89 -1.49	43.46 0.62 -1.28
DUNKIRK___1 23563	44.73 1.35 -1.24	38.97 1.25 -0.86	35.45 1.34 -0.62	33.72 1.40 -0.50	35.34 1.52 -0.68	37.74 1.59 -0.84	47.79 1.59 -2.09	51.75 1.48 -2.42	51.73 0.98 -1.76	48.77 1.29 -1.55	46.31 1.52 -1.37	45.53 1.62 -1.33	44.58 1.54 -1.33	47.44 1.77 -1.45	48.90 2.00 -1.52	49.67 1.08 -1.63	55.58 -0.05 -2.12	66.59 -0.39 -2.32	67.86 -0.46 -3.03	59.87 -0.23 -2.47	50.64 0.19 -1.80	47.04 0.09 -1.56	46.70 0.89 -1.49	43.46 0.62 -1.28
DUNKIRK___2 23564	44.73 1.35 -1.24	38.97 1.25 -0.86	35.45 1.34 -0.62	33.72 1.40 -0.50	35.34 1.52 -0.68	37.74 1.59 -0.84	47.79 1.59 -2.09	51.75 1.48 -2.42	51.73 0.98 -1.76	48.77 1.29 -1.55	46.31 1.52 -1.37	45.53 1.62 -1.33	44.58 1.54 -1.33	47.44 1.77 -1.45	48.90 2.00 -1.52	49.67 1.08 -1.63	55.58 -0.05 -2.12	66.59 -0.39 -2.32	67.86 -0.46 -3.03	59.87 -0.23 -2.47	50.64 0.19 -1.80	47.04 0.09 -1.56	46.70 0.89 -1.49	43.46 0.62 -1.28
DUNKIRK___3 23565	44.47 1.10 -1.24	38.75 1.03 -0.86	35.25 1.14 -0.62	33.50 1.18 -0.50	35.11 1.29 -0.68	37.49 1.34 -0.84	47.44 1.24 -2.08	51.36 1.10 -2.41	51.33 0.59 -1.75	48.44 0.96 -1.54	45.96 1.17 -1.37	45.19 1.28 -1.33	44.28 1.25 -1.32	47.08 1.41 -1.45	48.57 1.68 -1.51	49.34 0.75 -1.62	55.25 -0.37 -2.11	66.13 -0.84 -2.31	67.39 -0.91 -3.01	59.46 -0.63 -2.46	50.30 -0.15 -1.79	46.72 -0.23 -1.55	46.34 0.53 -1.48	43.20 0.37 -1.28
DUNKIRK___4 23566	44.47 1.10 -1.24	38.75 1.03 -0.86	35.25 1.14 -0.62	33.50 1.18 -0.50	35.11 1.29 -0.68	37.49 1.34 -0.84	47.44 1.24 -2.08	51.36 1.10 -2.41	51.33 0.59 -1.75	48.44 0.96 -1.54	45.96 1.17 -1.37	45.19 1.28 -1.33	44.28 1.25 -1.32	47.08 1.41 -1.45	48.57 1.68 -1.51	49.34 0.75 -1.62	55.25 -0.37 -2.11	66.13 -0.84 -2.31	67.39 -0.91 -3.01	59.46 -0.63 -2.46	50.30 -0.15 -1.79	46.72 -0.23 -1.55	46.34 0.53 -1.48	43.20 0.37 -1.28
DUNWOODS_138_KV_38W08_REV_LBMP_I 345000	44.81 1.77 -0.90	38.94 1.55 -0.54	35.09 1.31 -0.29	33.11 1.11 -0.18	34.40 1.03 -0.24	36.91 1.20 -0.40	46.14 1.41 -0.61	49.70 1.53 -0.32	51.78 1.62 -1.17	48.92 1.75 -1.24	46.46 2.04 -1.00	45.67 2.13 -0.96	44.94 2.29 -0.94	47.64 2.34 -1.08	49.04 2.50 -1.16	50.93 2.72 -1.24	57.93 3.00 -1.42	68.76 3.30 -0.80	69.89 3.20 -1.40	60.73 2.59 -0.50	50.75 1.70 -0.40	47.80 1.86 -0.55	47.13 1.82 -0.99	44.11 1.75 -0.81
E.WALDEN_115_KV_TR_1_REV_LBMP_G 345009	44.28 1.43 -0.71	38.50 1.22 -0.42	34.73 1.00 -0.23	32.85 0.89 -0.14	34.15 0.83 -0.19	36.58 0.95 -0.32	45.80 1.19 -0.48	49.35 1.24 -0.26	51.19 1.27 -0.93	48.16 1.24 -0.98	45.73 1.52 -0.79	44.87 1.53 -0.76	44.12 1.67 -0.74	46.79 1.72 -0.85	48.21 1.91 -0.92	50.11 2.16 -0.98	56.94 2.30 -1.13	67.94 2.65 -0.63	69.01 2.61 -1.11	60.16 2.13 -0.39	50.43 1.46 -0.32	47.42 1.59 -0.44	46.62 1.51 -0.78	43.65 1.45 -0.64
E179THST_138_KV_TB4_REV_LBMP_J 345001	45.07 2.02 -0.91	39.24 1.84 -0.54	35.36 1.57 -0.29	33.40 1.40 -0.18	34.67 1.29 -0.24	37.01 1.31 -0.40	46.06 1.32 -0.61	49.90 1.72 -0.33	51.93 1.76 -1.17	49.21 2.02 -1.25	46.67 2.26 -1.00	46.01 2.47 -0.96	45.32 2.67 -0.94	47.90 2.61 -1.08	49.17 2.63 -1.16	51.12 2.91 -1.24	58.14 3.21 -1.42	68.89 3.43 -0.81	70.03 3.33 -1.40	60.78 2.65 -0.50	50.61 1.56 -0.40	48.03 2.09 -0.55	47.40 2.08 -0.99	44.45 2.08 -0.82



E179THST_13_KV_LOAD 356214	45.32 2.28 -0.91	39.43 2.03 -0.54	35.49 1.71 -0.29	33.53 1.53 -0.18	34.83 1.46 -0.24	37.19 1.48 -0.40	46.32 1.59 -0.61	50.14 1.96 -0.33	52.22 2.06 -1.17	49.48 2.30 -1.25	46.94 2.52 -1.00	46.27 2.73 -0.96	45.57 2.92 -0.94	48.21 2.92 -1.08	49.49 2.95 -1.16	51.45 3.24 -1.24	58.52 3.59 -1.42	69.35 3.88 -0.81	70.42 3.72 -1.40	61.19 3.05 -0.50	50.90 1.85 -0.40	48.30 2.36 -0.55	47.67 2.35 -0.99	44.66 2.29 -0.82
EAST HAMPTON___GT 23717	43.84 0.80 -0.90	37.76 0.37 -0.54	33.74 -0.03 -0.28	31.74 -0.26 -0.17	33.04 -0.33 -0.23	35.99 0.28 -0.40	44.15 -0.57 -0.60	45.52 -0.67 1.66	46.05 -0.34 2.59	46.29 0.64 0.29	44.20 1.09 0.30	45.14 1.62 -0.95	44.64 2.00 -0.93	47.32 2.03 -1.07	48.80 2.27 -1.15	50.78 2.58 -1.23	58.15 3.21 -1.43	69.22 3.75 -0.81	70.62 3.92 -1.40	61.42 3.28 -0.51	50.79 1.75 -0.39	46.64 1.41 0.16	44.10 0.93 1.16	43.56 1.21 -0.80
EAST RIVER___6 23660	45.18 2.15 -0.90	39.27 1.88 -0.54	35.36 1.57 -0.29	33.34 1.34 -0.18	34.60 1.23 -0.24	37.05 1.34 -0.40	46.32 1.59 -0.61	50.04 1.86 -0.32	52.17 2.01 -1.17	49.38 2.20 -1.24	46.89 2.47 -1.00	46.14 2.60 -0.96	45.32 2.67 -0.94	48.17 2.87 -1.08	49.58 3.04 -1.16	51.49 3.29 -1.24	58.41 3.48 -1.42	69.27 3.81 -0.80	70.34 3.65 -1.40	61.13 3.00 -0.50	51.19 2.14 -0.40	48.21 2.27 -0.55	47.53 2.22 -0.99	44.03 1.66 -0.81
EAST RIVER___7 23524	45.18 2.15 -0.90	39.27 1.88 -0.54	35.36 1.57 -0.29	33.34 1.34 -0.18	34.60 1.23 -0.24	37.05 1.34 -0.40	46.32 1.59 -0.61	50.04 1.86 -0.32	52.17 2.01 -1.17	49.38 2.20 -1.24	46.89 2.47 -1.00	46.14 2.60 -0.96	45.32 2.67 -0.94	48.17 2.87 -1.08	49.58 3.04 -1.16	51.49 3.29 -1.24	58.41 3.48 -1.42	69.27 3.81 -0.80	70.34 3.65 -1.40	61.13 3.00 -0.50	51.19 2.14 -0.40	48.21 2.27 -0.55	47.53 2.22 -0.99	44.03 1.66 -0.81
EASTVIEW_138_KV_38W32_REV_LBMP_I 345002	44.72 1.69 -0.90	38.86 1.47 -0.54	34.99 1.21 -0.29	33.02 1.02 -0.18	34.34 0.96 -0.24	36.84 1.13 -0.40	46.05 1.32 -0.61	49.61 1.44 -0.32	51.68 1.52 -1.17	48.78 1.61 -1.24	46.33 1.91 -1.00	45.54 2.00 -0.96	44.82 2.17 -0.94	47.46 2.17 -1.08	48.90 2.36 -1.16	50.79 2.58 -1.24	57.71 2.78 -1.42	68.50 3.04 -0.80	69.63 2.94 -1.39	60.55 2.42 -0.50	50.66 1.61 -0.40	47.67 1.72 -0.55	47.00 1.68 -0.98	43.98 1.62 -0.81
EAST_HAMPTON___DIESEL 23722	43.71 0.67 -0.90	37.68 0.29 -0.54	33.67 -0.10 -0.28	31.67 -0.32 -0.17	32.94 -0.43 -0.23	35.92 0.21 -0.40	44.02 -0.71 -0.60	45.38 -0.81 1.66	45.95 -0.44 2.59	46.20 0.55 0.29	44.12 1.00 0.30	45.06 1.53 -0.95	44.56 1.92 -0.93	47.27 1.99 -1.07	48.71 2.18 -1.15	50.68 2.49 -1.23	58.05 3.10 -1.43	69.15 3.68 -0.81	70.48 3.79 -1.40	61.37 3.23 -0.51	50.70 1.66 -0.39	46.55 1.32 0.16	44.06 0.89 1.16	43.51 1.16 -0.80
EAST_POINT___SOLAR 323840	44.29 2.61 0.46	38.90 2.32 0.27	35.42 2.08 0.15	33.71 1.97 0.09	35.16 2.15 0.12	37.47 2.37 0.21	47.12 3.31 0.31	51.37 3.68 0.17	50.98 2.59 0.60	46.54 1.24 0.63	43.16 0.26 0.51	41.92 -0.17 0.49	40.77 -0.46 0.48	43.44 -0.22 0.55	44.61 -0.18 0.59	46.52 0.19 0.63	53.37 0.59 0.73	66.51 2.26 0.41	68.89 4.31 0.71	61.53 4.15 0.25	52.19 3.75 0.21	48.61 3.50 0.28	46.93 3.10 0.50	43.67 2.53 0.42
EAST_PULASKI___ESR 323781	46.41 0.08 -4.19	40.59 0.07 -3.66	36.88 0.07 -3.32	35.00 0.03 -3.14	36.02 0.07 -2.82	40.84 0.11 -5.43	54.10 0.31 -9.67	58.54 0.43 -10.26	57.22 0.30 -7.94	51.30 0.14 -5.22	47.83 -0.04 -4.46	46.99 -0.08 -4.49	45.93 -0.08 -4.30	50.20 -0.13 -6.12	51.45 -0.18 -6.25	53.08 -0.23 -6.35	62.10 -0.16 -8.75	71.89 -0.19 -7.42	75.71 0.07 -10.35	67.77 0.23 -9.90	55.26 0.20 -6.41	51.24 0.18 -5.66	49.26 0.18 -4.76	45.74 0.08 -4.11
EAST_RIVER___1 323558	45.10 2.06 -0.90	39.23 1.84 -0.54	35.32 1.54 -0.29	33.30 1.31 -0.18	34.57 1.19 -0.24	37.08 1.38 -0.40	46.32 1.59 -0.61	50.04 1.86 -0.32	52.12 1.96 -1.17	49.29 2.11 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.24 2.59 -0.94	48.04 2.74 -1.08	49.45 2.91 -1.16	51.35 3.15 -1.24	58.30 3.37 -1.42	69.21 3.75 -0.80	70.28 3.59 -1.40	61.07 2.94 -0.50	51.09 2.04 -0.40	48.07 2.13 -0.55	47.40 2.08 -0.99	43.98 1.62 -0.81
EAST_RIVER___2 323559	45.18 2.15 -0.90	39.27 1.88 -0.54	35.36 1.57 -0.29	33.34 1.34 -0.18	34.60 1.23 -0.24	37.05 1.34 -0.40	46.32 1.59 -0.61	50.04 1.86 -0.32	52.17 2.01 -1.17	49.38 2.20 -1.24	46.89 2.47 -1.00	46.14 2.60 -0.96	45.32 2.67 -0.94	48.17 2.87 -1.08	49.58 3.04 -1.16	51.49 3.29 -1.24	58.41 3.48 -1.42	69.27 3.81 -0.80	70.34 3.65 -1.40	61.13 3.00 -0.50	51.19 2.14 -0.40	48.21 2.27 -0.55	47.53 2.22 -0.99	44.03 1.66 -0.81
EAST___DELAWARE_HYD 23607	44.30 1.56 -0.60	38.54 1.32 -0.36	34.76 1.07 -0.19	32.90 0.95 -0.12	34.22 0.93 -0.16	36.63 1.06 -0.27	45.94 1.41 -0.41	49.55 1.49 -0.22	51.24 1.47 -0.78	48.14 1.38 -0.83	45.56 1.48 -0.67	44.67 1.45 -0.64	43.79 1.46 -0.63	46.61 1.68 -0.72	48.02 1.86 -0.77	50.00 2.21 -0.83	56.87 2.41 -0.95	68.17 2.98 -0.53	69.23 3.01 -0.93	60.44 2.48 -0.33	50.77 1.85 -0.27	47.71 1.95 -0.37	46.76 1.77 -0.66	43.46 1.37 -0.54
EIGHT_POINT___WT_PWR 323820	45.10 1.35 -1.61	39.18 1.21 -1.12	35.64 1.34 -0.80	33.81 1.34 -0.65	35.55 1.52 -0.89	38.02 1.62 -1.09	48.67 1.85 -2.70	53.04 2.06 -3.13	52.88 1.61 -2.28	49.27 1.33 -2.00	46.37 1.17 -1.78	45.37 1.06 -1.73	44.59 1.17 -1.72	47.42 1.33 -1.88	48.80 1.45 -1.97	50.20 1.13 -2.11	56.54 0.54 -2.49	67.90 0.51 -2.73	69.83 0.98 -3.55	61.80 1.27 -2.90	51.98 1.22 -2.11	48.22 1.00 -1.83	47.58 1.51 -1.75	44.88 1.83 -1.51
ELBRIDGE_115KV_TB2 80188	45.25 -0.08 -3.20	39.20 -0.07 -2.42	35.42 0.00 -1.93	33.50 0.00 -1.67	35.07 0.03 -1.90	38.20 0.04 -2.86	50.33 0.13 -6.07	54.78 0.14 -6.79	54.15 0.10 -5.07	50.01 0.09 -3.98	46.95 0.04 -3.49	46.05 0.04 -3.43	45.12 0.04 -3.37	48.37 0.09 -4.07	49.68 0.09 -4.21	51.34 -0.05 -4.42	59.25 -0.11 -5.85	70.35 -0.13 -5.82	73.00 -0.07 -7.77	64.36 0.00 -6.72	53.34 0.00 -4.69	49.40 -0.09 -4.10	48.06 0.00 -3.73	44.65 -0.12 -3.22
ELEC_TRO_TEK 24086	44.47 1.43 -0.90	38.53 1.14 -0.54	34.61 0.84 -0.29	32.66 0.67 -0.17	33.93 0.56 -0.24	36.63 0.92 -0.40	45.52 0.79 -0.61	48.55 0.77 0.06	50.21 0.83 -0.39	47.90 1.01 -0.95	45.58 1.48 -0.69	45.19 1.66 -0.95	44.52 1.88 -0.93	47.19 1.90 -1.07	48.62 2.09 -1.15	50.55 2.35 -1.24	57.53 2.57 -1.45	68.32 2.84 -0.82	69.45 2.74 -1.41	60.45 2.31 -0.51	50.31 1.26 -0.40	47.18 1.32 -0.47	45.95 1.15 -0.47	43.52 1.16 -0.81
ELLENBURG_WT_PWR 323604	42.83 0.59 -0.10	37.89 0.44 -0.59	34.82 0.43 -0.89	33.28 0.41 -1.05	33.94 0.40 -0.41	37.65 0.49 -1.85	45.97 -0.13 -1.98	49.12 -0.38 -1.65	50.42 -0.10 -1.53	46.08 0.00 -0.14	43.33 -0.09 0.00	42.48 -0.21 -0.11	41.71 0.00 0.00	44.55 -0.62 -0.96	45.43 -0.86 -0.91	46.75 -0.94 -0.73	54.05 -0.80 -1.34	64.21 -0.45 0.00	65.62 -0.13 -0.46	59.13 0.12 -1.38	49.24 0.15 -0.45	46.03 0.18 -0.46	44.99 0.67 0.00	42.80 1.25 0.00



ELM_ST_23_KV_LD_REV_LBMP_A 345012	44.07 0.72 -1.22	38.36 0.66 -0.84	34.97 0.87 -0.61	33.24 0.92 -0.49	34.83 1.03 -0.67	37.12 0.99 -0.82	46.87 0.71 -2.04	50.70 0.48 -2.37	50.71 0.00 -1.72	47.91 0.46 -1.51	45.46 0.69 -1.35	44.74 0.85 -1.31	43.80 0.79 -1.30	46.57 0.93 -1.42	47.96 1.09 -1.49	48.70 0.14 -1.60	54.51 -1.07 -2.07	65.11 -1.81 -2.27	66.29 -1.96 -2.96	58.49 -1.56 -2.41	49.53 -0.88 -1.76	46.15 -0.77 -1.52	45.82 0.04 -1.45	42.76 -0.04 -1.25
EMPIRE_CC_1 323656	40.97 -0.08 1.08	36.17 -0.04 0.65	33.11 -0.03 0.35	31.55 -0.06 0.21	32.78 -0.07 0.29	34.79 -0.04 0.48	43.34 -0.04 0.74	47.37 -0.10 0.39	47.47 -0.10 1.42	44.35 -0.09 1.49	42.08 -0.13 1.21	41.25 -0.17 1.16	40.41 -0.17 1.13	42.78 -0.13 1.30	43.94 -0.05 1.40	45.56 0.09 1.50	51.96 0.16 1.71	60.69 0.13 4.10	52.50 0.07 12.86	50.50 -0.06 7.07	48.07 -0.10 0.48	44.73 0.00 0.66	43.01 -0.13 1.19	40.28 -0.29 0.98
EMPIRE_CC_2 323658	40.97 -0.08 1.08	36.17 -0.04 0.65	33.11 -0.03 0.35	31.55 -0.06 0.21	32.78 -0.07 0.29	34.79 -0.04 0.48	43.34 -0.04 0.74	47.37 -0.10 0.39	47.47 -0.10 1.42	44.35 -0.09 1.49	42.08 -0.13 1.21	41.25 -0.17 1.16	40.41 -0.17 1.13	42.78 -0.13 1.30	43.94 -0.05 1.40	45.56 0.09 1.50	51.96 0.16 1.71	60.69 0.13 4.10	52.50 0.07 12.86	50.50 -0.06 7.07	48.07 -0.10 0.48	44.73 0.00 0.66	43.01 -0.13 1.19	40.28 -0.29 0.98
ENORWICH_115KV_TB1 80156	46.66 2.95 -1.57	40.52 2.58 -1.09	36.62 2.34 -0.78	34.62 2.16 -0.63	36.18 2.19 -0.86	38.88 2.51 -1.06	50.37 3.62 -2.63	54.92 4.02 -3.05	54.98 3.77 -2.22	51.01 3.12 -1.95	47.75 2.60 -1.74	46.69 2.43 -1.68	45.51 2.13 -1.67	48.13 2.08 -1.84	49.48 2.18 -1.92	51.23 2.21 -2.06	59.15 3.00 -2.64	71.43 3.88 -2.89	73.96 4.90 -3.77	65.43 4.73 -3.07	54.88 3.99 -2.24	50.83 3.50 -1.94	49.59 3.41 -1.85	45.85 2.70 -1.60
ERIE_ST__34_KV_TB1-2 80199	44.14 0.76 -1.24	38.41 0.70 -0.86	34.95 0.84 -0.62	33.24 0.92 -0.50	34.84 1.03 -0.68	37.17 1.02 -0.84	47.17 0.97 -2.08	51.13 0.86 -2.41	51.14 0.39 -1.76	48.31 0.83 -1.54	45.83 1.04 -1.37	45.10 1.19 -1.33	44.16 1.13 -1.32	46.95 1.28 -1.45	48.39 1.50 -1.51	49.20 0.61 -1.63	55.04 -0.59 -2.12	65.74 -1.23 -2.31	67.01 -1.31 -3.02	59.11 -0.98 -2.46	50.01 -0.44 -1.79	46.45 -0.50 -1.56	46.08 0.27 -1.48	42.87 0.04 -1.28
ERIE_WT_PWR 323693	44.26 0.89 -1.24	38.52 0.81 -0.86	35.08 0.97 -0.62	33.37 1.05 -0.50	34.94 1.13 -0.68	37.27 1.13 -0.84	47.17 0.97 -2.08	51.31 1.05 -2.41	51.33 0.59 -1.75	48.31 0.83 -1.54	45.74 0.95 -1.37	44.97 1.06 -1.33	44.16 1.13 -1.32	46.86 1.19 -1.45	48.21 1.32 -1.51	49.15 0.57 -1.62	55.12 -0.54 -2.14	65.52 -1.48 -2.34	66.85 -1.50 -3.05	59.09 -1.04 -2.49	49.93 -0.53 -1.82	46.47 -0.50 -1.58	46.14 0.31 -1.50	44.05 1.21 -1.30
ESPRGFLD_115KV_TB1 80157	44.23 1.98 -0.12	38.69 1.73 -0.10	35.14 1.54 -0.10	33.39 1.46 -0.10	34.79 1.52 -0.14	37.14 1.69 -0.14	46.95 2.38 -0.45	51.12 2.63 -0.63	51.43 2.25 -0.19	47.79 1.75 -0.11	44.93 1.39 -0.13	43.94 1.23 -0.12	42.96 1.13 -0.13	45.49 1.15 -0.13	46.78 1.27 -0.12	48.51 1.41 -0.13	55.50 1.77 -0.22	67.77 2.65 -0.46	69.12 3.33 -0.50	61.28 3.05 -0.59	51.69 2.63 -0.42	48.19 2.50 -0.30	46.79 2.31 -0.16	43.57 1.87 -0.15
ETNA_115_KV_TB1_REV_LBMP_C 345029	45.16 0.97 -2.06	39.13 0.85 -1.43	35.36 0.84 -1.03	33.41 0.76 -0.82	35.10 0.83 -1.13	37.62 0.92 -1.39	48.85 1.28 -3.45	53.29 1.44 -4.00	53.18 1.27 -2.91	49.55 1.06 -2.56	46.60 0.91 -2.28	45.64 0.85 -2.21	44.74 0.83 -2.19	47.55 0.93 -2.41	48.85 0.95 -2.51	50.55 0.89 -2.69	57.94 0.96 -3.46	69.74 1.29 -3.78	71.80 1.57 -4.94	63.10 1.44 -4.02	52.85 1.26 -2.94	48.98 1.04 -2.55	47.86 1.11 -2.43	44.48 0.83 -2.09
ETNA____115KV_TB2 80207	45.16 0.97 -2.06	39.13 0.85 -1.43	35.36 0.84 -1.03	33.41 0.76 -0.82	35.10 0.83 -1.13	37.62 0.92 -1.39	48.85 1.28 -3.45	53.29 1.44 -4.00	53.18 1.27 -2.91	49.55 1.06 -2.56	46.60 0.91 -2.28	45.64 0.85 -2.21	44.74 0.83 -2.19	47.55 0.93 -2.41	48.85 0.95 -2.51	50.55 0.89 -2.69	57.94 0.96 -3.46	69.74 1.29 -3.78	71.80 1.57 -4.94	63.10 1.44 -4.02	52.85 1.26 -2.94	48.98 1.04 -2.55	47.86 1.11 -2.43	44.48 0.83 -2.09
EUCLID____115KV_TB2 356179	43.81 -0.34 -2.01	38.22 -0.29 -1.66	34.69 -0.23 -1.43	32.92 -0.22 -1.32	34.22 -0.20 -1.29	37.36 -0.21 -2.27	48.19 -0.22 -4.30	52.31 -0.19 -4.65	52.29 -0.24 -3.55	48.21 -0.23 -2.50	45.36 -0.22 -2.16	44.52 -0.21 -2.15	43.58 -0.21 -2.08	46.81 -0.18 -2.78	48.01 -0.23 -2.85	49.57 -0.33 -2.93	57.12 -0.37 -3.98	67.74 -0.52 -3.60	69.77 -0.46 -4.93	61.82 -0.35 -4.54	51.38 -0.29 -3.02	47.73 -0.32 -2.66	46.37 -0.27 -2.31	43.17 -0.37 -1.99
E_CANADA_CAP_HY 24051	43.96 2.23 0.41	38.56 1.95 0.24	35.10 1.74 0.13	33.40 1.65 0.08	34.81 1.79 0.11	37.10 1.98 0.18	46.58 2.74 0.28	50.77 3.07 0.15	50.86 2.40 0.53	46.94 1.56 0.56	43.87 0.91 0.45	42.74 0.60 0.44	41.66 0.37 0.43	44.30 0.57 0.49	45.49 0.64 0.53	47.34 0.94 0.56	54.20 1.34 0.64	66.88 2.59 0.36	68.32 3.65 0.63	60.81 3.40 0.23	51.48 3.02 0.18	48.09 2.95 0.25	46.50 2.61 0.45	43.30 2.12 0.37
E_CANADA_MHWK_HY 24050	42.48 0.30 -0.04	37.32 0.22 -0.24	33.99 0.13 -0.37	32.35 0.10 -0.43	33.37 0.07 -0.17	36.21 0.14 -0.76	45.29 0.35 -0.82	48.77 0.24 -0.68	49.76 0.15 -0.63	46.09 0.09 -0.06	43.50 0.09 0.00	42.80 0.17 -0.05	41.67 -0.04 0.00	44.35 -0.26 -0.39	45.44 -0.32 -0.38	46.84 -0.42 -0.30	53.85 -0.21 -0.55	64.34 -0.32 0.00	65.55 0.07 -0.19	58.37 0.17 -0.57	48.98 0.15 -0.18	46.03 0.45 -0.19	44.77 0.44 0.00	41.88 0.33 0.00
E_FISHKILL__LBMP 23776	44.20 1.14 -0.92	38.40 1.00 -0.55	34.59 0.80 -0.30	32.67 0.67 -0.18	34.01 0.63 -0.25	36.42 0.71 -0.41	45.58 0.84 -0.63	49.09 0.91 -0.33	51.12 0.93 -1.20	48.21 1.01 -1.27	45.70 1.26 -1.03	44.88 1.32 -0.98	44.13 1.46 -0.96	46.78 1.46 -1.10	48.16 1.59 -1.18	50.06 1.83 -1.27	56.89 1.93 -1.45	67.61 2.13 -0.82	68.75 2.02 -1.43	59.70 1.56 -0.51	50.08 1.02 -0.41	47.13 1.18 -0.56	46.44 1.11 -1.01	43.50 1.12 -0.83
FALCON__SEABRD_CC1 323796	43.46 1.18 -0.14	38.52 0.88 -0.78	35.54 0.87 -1.18	34.03 0.83 -1.38	34.51 0.83 -0.54	38.74 0.99 -2.44	46.61 -0.13 -2.63	49.41 -0.62 -2.18	50.67 -0.34 -2.02	45.94 -0.18 -0.19	43.11 -0.30 0.00	42.30 -0.43 -0.15	41.75 0.04 0.00	44.51 -0.97 -1.27	45.27 -1.32 -1.21	46.52 -1.41 -0.97	54.00 -1.28 -1.78	63.82 -0.84 0.00	65.44 -0.45 -0.60	59.40 -0.06 -1.82	49.29 0.05 -0.59	46.04 0.05 -0.60	45.26 0.93 0.00	43.59 2.04 0.00
FALCON__SEABRD_CC2 323797	43.46 1.18 -0.14	38.52 0.88 -0.78	35.54 0.87 -1.18	34.03 0.83 -1.38	34.51 0.83 -0.54	38.74 0.99 -2.44	46.61 -0.13 -2.63	49.41 -0.62 -2.18	50.67 -0.34 -2.02	45.94 -0.18 -0.19	43.11 -0.30 0.00	42.30 -0.43 -0.15	41.75 0.04 0.00	44.51 -0.97 -1.27	45.27 -1.32 -1.21	46.52 -1.41 -0.97	54.00 -1.28 -1.78	63.82 -0.84 0.00	65.44 -0.45 -0.60	59.40 -0.06 -1.82	49.29 0.05 -0.59	46.04 0.05 -0.60	45.26 0.93 0.00	43.59 2.04 0.00



FAR ROCKAWAY___4 23548	45.19 2.15 -0.90	39.16 1.77 -0.54	35.15 1.37 -0.29	33.14 1.15 -0.17	34.46 1.09 -0.24	37.23 1.52 -0.40	46.18 1.46 -0.61	49.77 1.39 -0.53	51.88 1.52 -1.38	49.05 1.65 -1.46	46.52 2.21 -0.89	46.00 2.47 -0.95	45.44 2.79 -0.94	48.21 2.92 -1.07	49.71 3.18 -1.15	51.72 3.52 -1.24	58.87 3.91 -1.45	69.87 4.40 -0.82	71.08 4.37 -1.41	61.89 3.75 -0.51	51.43 2.38 -0.40	48.33 2.22 -0.72	46.99 1.86 -0.80	44.23 1.87 -0.81
FARRAGUT_138_KV_32071_REV_LBMP_J 345003	45.10 2.06 -0.90	39.20 1.81 -0.54	35.32 1.54 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.09 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.03 1.86 -1.17	49.15 1.98 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.32 2.67 -0.94	47.95 2.65 -1.08	49.35 2.81 -1.16	51.30 3.10 -1.24	58.25 3.32 -1.42	69.14 3.69 -0.80	70.22 3.53 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.03 2.09 -0.55	47.35 2.04 -0.99	44.32 1.95 -0.81
FARRAGUT_138_KV_38B01_REV_LBMP_J 345016	45.14 2.11 -0.90	39.23 1.84 -0.54	35.32 1.54 -0.29	33.30 1.30 -0.18	34.60 1.23 -0.24	37.09 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.07 1.91 -1.17	49.20 2.02 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.32 2.67 -0.94	47.99 2.70 -1.08	49.35 2.81 -1.16	51.30 3.10 -1.24	58.30 3.37 -1.42	69.14 3.69 -0.80	70.28 3.59 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.07 2.13 -0.55	47.40 2.08 -0.99	44.36 1.99 -0.81
FARRAGUT_138_KV_38M12_REV_LBMP_J 345017	45.10 2.06 -0.90	39.20 1.81 -0.54	35.29 1.51 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.05 1.34 -0.40	46.32 1.59 -0.61	49.90 1.72 -0.32	52.03 1.86 -1.17	49.15 1.98 -1.24	46.76 2.34 -1.00	46.01 2.47 -0.96	45.28 2.63 -0.94	47.90 2.61 -1.08	49.31 2.77 -1.16	51.26 3.05 -1.24	58.20 3.26 -1.42	69.08 3.62 -0.80	70.15 3.46 -1.40	60.96 2.82 -0.50	50.90 1.85 -0.40	47.98 2.04 -0.55	47.31 1.99 -0.99	44.27 1.91 -0.81
FARRAGUT___LBMP 323566	45.06 2.02 -0.90	39.16 1.77 -0.54	35.26 1.47 -0.29	33.24 1.24 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.28 1.54 -0.61	49.85 1.67 -0.32	51.98 1.81 -1.17	49.11 1.93 -1.24	46.72 2.30 -1.00	45.97 2.43 -0.96	45.23 2.59 -0.94	47.86 2.56 -1.08	49.26 2.72 -1.16	51.16 2.96 -1.24	58.14 3.21 -1.42	69.02 3.56 -0.80	70.08 3.40 -1.40	60.90 2.77 -0.50	50.85 1.80 -0.40	47.94 2.00 -0.55	47.31 1.99 -0.99	44.27 1.91 -0.81
FENNER___WINDPWR 24204	44.82 1.05 -1.63	39.35 0.92 -1.57	35.86 0.84 -1.53	34.10 0.76 -1.51	35.13 0.79 -1.20	38.85 0.92 -2.62	49.81 1.41 -4.28	53.89 1.63 -4.41	54.04 1.57 -3.49	49.26 1.28 -2.04	46.12 1.00 -1.70	45.31 0.98 -1.75	44.23 0.88 -1.64	47.77 0.93 -2.62	48.95 0.91 -2.66	50.50 0.89 -2.64	58.47 1.23 -3.73	69.03 1.55 -2.82	71.26 1.89 -4.07	63.60 1.79 -4.18	52.73 1.51 -2.57	48.95 1.27 -2.29	47.33 1.20 -1.81	44.11 1.00 -1.56
FIBERTEK___ENERGY 23856	45.31 0.08 -3.08	39.26 0.04 -2.36	35.50 0.10 -1.91	33.60 0.10 -1.68	35.12 0.13 -1.85	38.31 0.14 -2.87	50.35 0.26 -5.97	54.82 0.33 -6.63	54.25 0.29 -4.97	50.05 0.28 -3.84	46.99 0.22 -3.36	46.10 0.21 -3.31	45.20 0.25 -3.24	48.45 0.27 -3.97	49.72 0.23 -4.11	51.40 0.14 -4.30	59.38 0.16 -5.71	70.45 0.19 -5.60	73.12 0.33 -7.50	64.48 0.29 -6.55	53.43 0.24 -4.54	49.50 0.14 -3.97	48.14 0.22 -3.59	44.69 0.04 -3.10
FITZPATRICK___ 23598	24.80 -0.97 16.37	24.66 -0.85 11.34	24.58 -0.74 8.18	24.56 -0.70 6.56	23.39 -0.73 9.01	23.45 -0.78 11.08	15.72 -0.93 27.47	15.05 -0.96 31.84	24.78 -1.03 23.18	24.61 -0.97 20.36	24.35 -0.96 18.11	24.09 -0.94 17.56	23.37 -0.88 17.46	24.13 -0.93 19.15	24.45 -0.96 19.98	24.44 -1.08 21.44	24.69 -1.23 27.59	32.94 -1.55 30.17	24.44 -1.50 39.35	24.29 -1.27 32.07	24.17 -1.07 23.40	24.04 -1.04 20.31	24.02 -0.98 19.34	23.94 -0.91 16.69
FORGEBRK_115_KV_TR1_2_REV_LBMP_G 345010	44.53 1.69 -0.71	38.75 1.47 -0.42	34.93 1.21 -0.23	33.04 1.08 -0.14	34.38 1.06 -0.19	36.82 1.20 -0.31	46.10 1.50 -0.48	49.64 1.53 -0.25	51.48 1.57 -0.92	48.47 1.56 -0.97	45.98 1.78 -0.79	45.08 1.75 -0.75	44.32 1.88 -0.74	47.01 1.95 -0.85	48.42 2.13 -0.91	50.43 2.49 -0.97	57.25 2.62 -1.12	68.39 3.10 -0.63	69.46 3.07 -1.10	60.56 2.54 -0.39	50.77 1.80 -0.32	47.77 1.95 -0.43	46.92 1.82 -0.77	43.93 1.75 -0.64
FORT ORANGE___ 23900	41.24 -0.34 0.56	36.22 -0.30 0.34	33.01 -0.30 0.18	31.43 -0.29 0.11	32.72 -0.27 0.15	34.81 -0.25 0.25	43.43 -0.31 0.38	47.26 -0.38 0.20	47.76 -0.49 0.74	44.47 -0.69 0.78	42.09 -0.70 0.63	41.21 -0.77 0.60	40.32 -0.79 0.59	42.47 -1.06 0.68	43.56 -1.09 0.73	45.57 -0.61 0.78	52.03 -0.59 0.89	61.20 -0.65 2.81	55.59 -0.59 9.12	51.92 -0.63 5.08	47.86 -0.53 0.25	44.64 -0.41 0.35	43.13 -0.58 0.62	40.87 -0.17 0.51
FORT_DRUM_COGEN 23780	46.57 1.81 -2.62	42.67 1.58 -4.23	40.07 1.34 -5.24	38.74 1.18 -5.74	37.39 1.16 -3.09	46.75 1.38 -10.07	59.21 2.25 -12.84	62.19 2.49 -11.85	61.38 2.25 -10.14	50.95 1.70 -3.32	46.82 1.04 -2.36	46.33 0.94 -2.82	44.69 0.71 -2.28	51.80 0.62 -6.97	52.78 0.54 -6.86	53.73 0.56 -6.20	64.49 1.12 -9.86	70.14 1.55 -3.93	75.03 2.48 -7.26	70.84 2.59 -10.61	55.98 2.19 -5.14	52.16 2.00 -4.77	48.62 1.77 -2.52	44.97 1.25 -2.18
FOX_HILLS___ESR 323835	35.39 1.56 8.31	29.70 1.33 8.48	24.69 1.34 10.15	33.56 1.56 -0.18	34.83 1.46 -0.24	37.19 1.48 -0.40	45.48 0.75 -0.61	47.56 0.96 1.25	47.79 1.03 2.23	47.03 1.52 0.42	46.41 2.00 -1.00	45.57 2.34 -0.65	44.16 2.25 -0.20	42.28 2.21 4.15	46.87 2.13 0.65	46.54 2.40 2.82	50.21 2.57 5.87	59.33 2.72 8.05	60.36 2.61 7.55	52.77 2.02 6.88	44.03 1.22 5.84	42.37 1.63 4.66	45.85 1.77 0.26	44.44 2.08 -0.81
FPL_FAR_ROCK_GT1 24212	45.18 2.15 -0.90	39.16 1.77 -0.54	35.15 1.37 -0.29	33.14 1.14 -0.17	34.46 1.09 -0.24	37.23 1.52 -0.40	46.18 1.45 -0.61	49.82 1.43 -0.53	51.93 1.57 -1.38	49.55 2.16 -1.46	46.52 2.21 -0.89	46.09 2.55 -0.95	45.32 2.67 -0.94	48.30 3.01 -1.07	49.80 3.27 -1.15	51.77 3.57 -1.24	58.87 3.90 -1.45	69.93 4.46 -0.82	71.15 4.44 -1.41	61.89 3.74 -0.51	51.53 2.48 -0.40	48.38 2.27 -0.72	47.03 1.90 -0.80	43.90 1.54 -0.81
FPL_FAR_ROCK_GT2 23815	45.18 2.15 -0.90	39.16 1.77 -0.54	35.15 1.37 -0.29	33.14 1.14 -0.17	34.46 1.09 -0.24	37.23 1.52 -0.40	46.18 1.45 -0.61	49.82 1.43 -0.53	51.93 1.57 -1.38	49.55 2.16 -1.46	46.52 2.21 -0.89	46.09 2.55 -0.95	45.32 2.67 -0.94	48.30 3.01 -1.07	49.80 3.27 -1.15	51.77 3.57 -1.24	58.87 3.90 -1.45	69.93 4.46 -0.82	71.15 4.44 -1.41	61.89 3.74 -0.51	51.53 2.48 -0.40	48.38 2.27 -0.72	47.03 1.90 -0.80	43.90 1.54 -0.81
FRANKLIN_FALL_HYD 24054	43.85 1.05 -0.66	41.43 0.85 -3.73	39.94 0.80 -5.65	39.20 0.76 -6.61	36.49 0.76 -2.60	47.90 0.92 -11.67	57.32 0.66 -12.54	58.85 0.57 -10.42	59.46 0.83 -9.64	47.71 0.87 -0.90	44.11 0.69 0.00	43.89 0.60 -0.72	42.08 0.38 0.00	50.75 0.49 -6.05	51.18 0.05 -5.76	51.62 0.05 -4.61	62.25 0.27 -8.48	65.43 0.78 0.00	69.22 1.04 -2.88	67.55 1.21 -8.71	52.55 1.07 -2.83	49.22 0.95 -2.88	45.26 0.93 0.00	42.76 1.20 0.00



FREEPORT_EQUS_GT1 23764	44.64 1.60 -0.90	38.68 1.29 -0.54	34.71 0.94 -0.29	32.73 0.73 -0.17	34.03 0.66 -0.24	36.80 1.10 -0.40	45.56 0.84 -0.61	48.05 0.86 0.67	49.15 0.93 0.77	47.94 1.51 -0.49	45.21 1.52 -0.28	45.32 1.79 -0.95	44.56 1.92 -0.93	47.41 2.12 -1.07	48.89 2.36 -1.15	50.83 2.63 -1.24	57.89 2.94 -1.44	68.83 3.36 -0.81	69.97 3.26 -1.41	60.85 2.71 -0.51	50.65 1.60 -0.40	47.16 1.54 -0.23	45.36 1.24 0.21	43.35 1.00 -0.80
FREEPORT___CT2 23818	44.64 1.60 -0.90	38.68 1.29 -0.54	34.71 0.94 -0.29	32.73 0.73 -0.17	34.03 0.66 -0.24	36.80 1.10 -0.40	45.56 0.84 -0.61	48.05 0.86 0.67	49.15 0.93 0.77	47.94 1.51 -0.49	45.21 1.52 -0.28	45.32 1.79 -0.95	44.56 1.92 -0.93	47.41 2.12 -1.07	48.89 2.36 -1.15	50.83 2.63 -1.24	57.89 2.94 -1.44	68.83 3.36 -0.81	69.97 3.26 -1.41	60.85 2.71 -0.51	50.65 1.60 -0.40	47.16 1.54 -0.23	45.36 1.24 0.21	43.35 1.00 -0.80
FRESHKLS_33_KV_LOAD 356253	35.35 1.52 8.31	29.66 1.29 8.48	24.72 1.37 10.15	33.69 1.69 -0.18	35.00 1.62 -0.24	37.33 1.62 -0.40	45.48 0.75 -0.61	47.51 0.91 1.25	47.74 0.98 2.23	47.03 1.52 0.42	46.41 2.00 -1.00	44.59 2.38 0.38	41.64 2.17 2.24	42.23 2.17 4.15	44.63 2.09 2.84	44.44 2.35 4.87	48.85 2.51 7.18	58.75 2.72 8.62	59.79 2.55 8.05	51.58 1.96 8.02	44.03 1.22 5.84	42.32 1.59 4.66	45.80 1.73 0.26	44.52 2.16 -0.81
FULTON COGEN____ 23766	43.80 -0.21 -1.88	38.20 -0.22 -1.56	34.72 -0.13 -1.37	32.93 -0.16 -1.26	34.25 -0.10 -1.21	37.38 -0.11 -2.18	48.15 -0.04 -4.07	52.29 0.05 -4.39	52.30 -0.05 -3.36	48.18 -0.09 -2.34	45.34 -0.09 -2.02	44.46 -0.13 -2.01	43.57 -0.08 -1.94	46.75 -0.09 -2.62	47.98 -0.09 -2.69	49.54 -0.19 -2.76	57.11 -0.16 -3.76	67.89 -0.13 -3.36	69.84 -0.07 -4.62	61.91 0.00 -4.27	51.48 0.00 -2.83	47.79 -0.09 -2.49	46.48 0.00 -2.15	43.24 -0.17 -1.86
FULTON___LFGE 323630	43.81 2.15 0.47	38.49 1.92 0.28	35.05 1.71 0.15	33.35 1.62 0.09	34.76 1.75 0.13	37.04 1.94 0.21	46.49 2.69 0.32	50.70 3.02 0.17	50.67 2.30 0.62	46.71 1.43 0.65	43.62 0.74 0.53	42.41 0.34 0.50	41.26 0.04 0.49	43.87 0.22 0.57	45.05 0.27 0.61	46.97 0.66 0.65	54.10 1.34 0.75	66.95 2.72 0.42	68.35 3.79 0.73	60.77 3.40 0.26	51.51 3.07 0.21	48.01 2.91 0.29	46.38 2.57 0.52	43.20 2.08 0.43
G.F.CEMENT___DRP 24184	42.51 1.14 0.76	37.47 1.07 0.46	34.25 1.00 0.25	32.60 0.92 0.15	33.95 1.03 0.21	35.99 1.02 0.34	45.01 1.41 0.52	49.25 1.67 0.27	49.31 1.32 1.00	45.89 1.01 1.05	43.30 0.74 0.85	42.36 0.60 0.82	41.28 0.38 0.80	43.83 0.53 0.92	44.94 0.54 0.99	46.66 0.75 1.06	53.53 1.23 1.21	67.97 1.88 -1.44	73.95 2.29 -6.37	63.43 1.84 -3.95	50.06 1.75 0.34	46.65 1.72 0.47	44.86 1.37 0.84	42.02 1.16 0.69
GARDENVILLE___LBMP 24039	44.17 0.76 -1.28	38.44 0.70 -0.88	35.00 0.87 -0.64	33.29 0.95 -0.51	34.90 1.06 -0.70	37.19 1.02 -0.86	47.10 0.84 -2.14	50.96 0.62 -2.48	50.94 0.15 -1.81	48.08 0.55 -1.59	45.56 0.74 -1.41	44.80 0.85 -1.37	43.86 0.79 -1.36	46.64 0.93 -1.49	48.08 1.13 -1.56	48.87 0.23 -1.67	54.71 -0.96 -2.16	65.41 -1.62 -2.37	66.68 -1.70 -3.09	58.88 -1.27 -2.52	49.80 -0.68 -1.84	46.35 -0.64 -1.59	46.02 0.18 -1.52	42.90 0.04 -1.31
GARDNVLA_35_KV_LD 355827	44.38 1.01 -1.23	38.63 0.92 -0.85	35.15 1.04 -0.62	33.43 1.11 -0.49	35.00 1.19 -0.68	37.38 1.24 -0.83	47.29 1.10 -2.07	51.20 0.96 -2.40	51.27 0.54 -1.74	48.39 0.92 -1.53	45.91 1.13 -1.36	45.18 1.28 -1.32	44.23 1.21 -1.31	47.03 1.37 -1.44	48.43 1.54 -1.50	49.23 0.66 -1.61	55.08 -0.54 -2.10	65.79 -1.16 -2.30	67.05 -1.24 -3.00	59.15 -0.92 -2.44	50.09 -0.34 -1.78	46.57 -0.36 -1.55	46.24 0.44 -1.47	43.07 0.25 -1.27
GELCKHM___115KV_LOAD 80723	44.37 -0.17 -2.40	38.62 -0.15 -1.91	34.99 -0.10 -1.60	33.17 -0.10 -1.44	34.56 -0.07 -1.49	37.71 -0.07 -2.47	49.01 0.00 -4.89	53.20 0.00 -5.35	52.99 -0.05 -4.05	48.88 -0.05 -2.98	45.97 -0.04 -2.59	45.11 -0.04 -2.57	44.17 -0.04 -2.50	47.42 0.00 -3.20	48.64 -0.05 -3.30	50.24 -0.14 -3.42	57.95 -0.16 -4.60	68.79 -0.19 -4.32	71.02 -0.13 -5.86	62.77 -0.12 -5.26	52.12 -0.10 -3.57	48.38 -0.14 -3.13	47.01 -0.09 -2.77	43.74 -0.21 -2.39
GENERAL___MILLS 23808	44.22 0.84 -1.24	38.52 0.81 -0.86	35.08 0.97 -0.62	33.34 1.02 -0.50	34.94 1.13 -0.68	37.27 1.13 -0.84	47.17 0.97 -2.08	51.03 0.77 -2.41	51.04 0.29 -1.75	48.21 0.74 -1.54	45.74 0.96 -1.37	44.97 1.06 -1.33	44.03 1.00 -1.32	46.81 1.15 -1.45	48.21 1.32 -1.51	49.01 0.42 -1.62	54.87 -0.75 -2.11	65.54 -1.42 -2.31	66.80 -1.50 -3.01	58.93 -1.15 -2.45	49.86 -0.58 -1.79	46.40 -0.54 -1.55	46.07 0.27 -1.48	42.95 0.12 -1.28
GE_PLASTICS___DRP 24183	41.68 -0.04 0.42	36.60 0.00 0.25	33.32 -0.03 0.14	31.71 -0.03 0.08	32.99 -0.03 0.11	35.08 -0.04 0.19	43.79 -0.04 0.29	47.70 0.00 0.15	48.39 -0.05 0.55	45.27 -0.09 0.58	42.38 -0.56 0.47	41.58 -0.55 0.45	40.77 -0.50 0.44	43.14 -0.57 0.50	44.34 -0.50 0.54	46.01 -0.38 0.58	52.47 -0.37 0.66	62.08 -0.58 1.99	58.28 -0.59 6.43	53.42 -0.63 3.58	47.93 -0.54 0.19	44.73 -0.41 0.26	43.38 -0.49 0.46	41.25 0.08 0.38
GILBOA___1 23756	42.80 0.46 -0.19	37.41 0.44 -0.12	33.89 0.33 -0.06	32.28 0.41 -0.04	33.59 0.40 -0.05	35.71 0.32 -0.09	44.65 0.40 -0.13	48.35 0.43 -0.07	49.63 0.39 -0.25	46.62 0.41 -0.27	44.11 0.48 -0.22	43.30 0.51 -0.21	42.41 0.50 -0.20	45.02 0.57 -0.23	46.32 0.68 -0.25	47.98 0.75 -0.27	54.62 0.80 -0.31	65.74 0.90 -0.17	66.06 0.46 -0.30	58.09 0.35 -0.11	49.22 0.49 -0.09	46.06 0.55 -0.12	44.99 0.44 -0.21	42.06 0.33 -0.18
GILBOA___2 23757	42.80 0.46 -0.19	37.41 0.44 -0.12	33.89 0.33 -0.06	32.28 0.41 -0.04	33.59 0.40 -0.05	35.71 0.32 -0.09	44.65 0.40 -0.13	48.35 0.43 -0.07	49.63 0.39 -0.25	46.62 0.41 -0.27	44.11 0.48 -0.22	43.30 0.51 -0.21	42.41 0.50 -0.20	45.02 0.57 -0.23	46.32 0.68 -0.25	47.98 0.75 -0.27	54.62 0.80 -0.31	65.74 0.90 -0.17	66.06 0.46 -0.30	58.09 0.35 -0.11	49.22 0.49 -0.09	46.06 0.55 -0.12	44.99 0.44 -0.21	42.06 0.33 -0.18
GILBOA___3 23758	42.80 0.46 -0.19	37.41 0.44 -0.12	33.89 0.33 -0.06	32.28 0.41 -0.04	33.59 0.40 -0.05	35.71 0.32 -0.09	44.65 0.40 -0.13	48.35 0.43 -0.07	49.63 0.39 -0.25	46.62 0.41 -0.27	44.11 0.48 -0.22	43.30 0.51 -0.21	42.41 0.50 -0.20	45.02 0.57 -0.23	46.32 0.68 -0.25	47.98 0.75 -0.27	54.62 0.80 -0.31	65.74 0.90 -0.17	66.06 0.46 -0.30	58.09 0.35 -0.11	49.22 0.49 -0.09	46.06 0.55 -0.12	44.99 0.44 -0.21	42.06 0.33 -0.18
GILBOA___4 23759	42.80 0.46 -0.19	37.41 0.44 -0.12	33.89 0.33 -0.06	32.28 0.41 -0.04	33.59 0.40 -0.05	35.71 0.32 -0.09	44.65 0.40 -0.13	48.35 0.43 -0.07	49.63 0.39 -0.25	46.62 0.41 -0.27	44.11 0.48 -0.22	43.30 0.51 -0.21	42.41 0.50 -0.20	45.02 0.57 -0.23	46.32 0.68 -0.25	47.98 0.75 -0.27	54.62 0.80 -0.31	65.74 0.90 -0.17	66.06 0.46 -0.30	58.09 0.35 -0.11	49.22 0.49 -0.09	46.06 0.55 -0.12	44.99 0.44 -0.21	42.06 0.33 -0.18



GILBOA____ 23599	42.80 0.46 -0.19	37.41 0.44 -0.12	33.89 0.33 -0.06	32.28 0.41 -0.04	33.58 0.40 -0.05	35.71 0.32 -0.09	44.65 0.40 -0.13	48.35 0.43 -0.07	49.68 0.44 -0.25	46.62 0.41 -0.27	44.11 0.48 -0.22	43.30 0.51 -0.21	42.45 0.54 -0.20	45.02 0.57 -0.23	46.27 0.64 -0.25	47.98 0.75 -0.27	54.62 0.80 -0.31	65.74 0.91 -0.17	66.05 0.46 -0.30	58.09 0.35 -0.11	49.17 0.44 -0.09	46.06 0.54 -0.12	45.03 0.49 -0.21	42.23 0.50 -0.18
GINNA____ 23603	41.63 -1.64 -1.14	36.21 -1.44 -0.79	32.86 -1.20 -0.57	31.17 -1.11 -0.46	32.67 -1.09 -0.63	34.84 -1.24 -0.77	44.53 -1.50 -1.91	48.53 -1.53 -2.21	48.93 -1.67 -1.61	45.88 -1.47 -1.42	43.33 -1.35 -1.26	42.56 -1.24 -1.22	41.67 -1.25 -1.21	44.26 -1.28 -1.33	45.41 -1.36 -1.39	46.81 -1.65 -1.49	53.49 -2.14 -2.12	64.27 -2.71 -2.32	65.58 -2.74 -3.03	57.85 -2.25 -2.47	48.55 -1.90 -1.80	45.14 -1.82 -1.56	44.18 -1.64 -1.49	41.59 -1.25 -1.28
GLEN PARK____ 23778	46.86 2.02 -2.70	42.74 1.73 -4.16	40.07 1.51 -5.07	38.65 1.31 -5.52	37.47 1.29 -3.05	46.53 1.55 -9.68	59.15 2.51 -12.52	62.31 2.82 -11.64	61.39 2.50 -9.90	51.23 1.88 -3.41	47.06 1.17 -2.47	46.54 1.06 -2.90	44.97 0.88 -2.39	51.81 0.75 -6.85	52.82 0.68 -6.75	53.87 0.75 -6.15	64.59 1.39 -9.69	70.65 1.88 -4.11	75.54 2.87 -7.38	71.09 3.00 -10.46	56.35 2.53 -5.17	52.49 2.31 -4.78	49.01 2.04 -2.64	45.45 1.62 -2.28
GLENDALE_27_KV_LOAD 356172	45.14 2.11 -0.90	39.27 1.88 -0.54	35.39 1.61 -0.29	33.43 1.43 -0.18	34.73 1.36 -0.24	37.16 1.45 -0.40	46.32 1.59 -0.61	49.99 1.82 -0.32	52.07 1.91 -1.17	49.33 2.16 -1.24	46.94 2.52 -1.00	46.92 2.68 -1.66	47.14 2.84 -2.60	48.12 2.83 -1.08	50.89 2.86 -2.65	52.74 3.15 -2.63	59.25 3.42 -2.31	69.60 3.75 -1.19	70.62 3.59 -1.73	61.78 2.88 -1.27	50.90 1.85 -0.40	48.17 2.22 -0.55	47.53 2.22 -0.99	44.48 2.12 -0.81
GLENWOOD_IC_1_G5 23712	44.81 1.77 -0.90	38.86 1.47 -0.54	34.95 1.17 -0.29	32.95 0.95 -0.17	34.27 0.89 -0.24	36.91 1.20 -0.40	45.96 1.24 -0.61	48.85 1.29 0.30	50.33 1.37 0.03	48.22 1.52 -0.77	45.98 2.00 -0.57	45.66 2.13 -0.95	44.98 2.34 -0.94	47.54 2.25 -1.07	48.81 2.27 -1.15	50.74 2.54 -1.24	57.75 2.78 -1.45	68.51 3.04 -0.82	69.64 2.94 -1.41	60.57 2.42 -0.51	50.46 1.41 -0.40	47.19 1.45 -0.34	46.23 1.64 -0.27	43.94 1.58 -0.81
GLENWOOD_IC_2_G1 23688	44.72 1.69 -0.90	38.83 1.44 -0.54	34.92 1.14 -0.29	32.95 0.95 -0.18	34.27 0.89 -0.24	36.84 1.13 -0.40	45.92 1.19 -0.61	49.46 1.34 -0.27	51.48 1.42 -1.07	48.87 1.75 -1.19	46.29 1.87 -1.01	45.54 2.00 -0.96	44.73 2.08 -0.94	47.59 2.30 -1.08	48.94 2.40 -1.16	50.83 2.63 -1.24	57.77 2.83 -1.42	68.63 3.17 -0.80	69.76 3.07 -1.40	60.67 2.53 -0.50	50.71 1.66 -0.40	47.67 1.72 -0.55	46.92 1.59 -1.00	43.57 1.21 -0.81
GLENWOOD_IC_3_G1 23689	44.72 1.69 -0.90	38.83 1.44 -0.54	34.92 1.14 -0.29	32.95 0.95 -0.18	34.27 0.89 -0.24	36.84 1.13 -0.40	45.92 1.19 -0.61	49.46 1.34 -0.27	51.48 1.42 -1.07	48.87 1.75 -1.19	46.29 1.87 -1.01	45.54 2.00 -0.96	44.73 2.08 -0.94	47.59 2.30 -1.08	48.94 2.40 -1.16	50.83 2.63 -1.24	57.77 2.83 -1.42	68.63 3.17 -0.80	69.76 3.07 -1.40	60.67 2.53 -0.50	50.71 1.66 -0.40	47.67 1.72 -0.55	46.92 1.59 -1.00	43.57 1.21 -0.81
GLENWOOD____4 23550	44.81 1.77 -0.90	38.86 1.47 -0.54	34.95 1.17 -0.29	32.95 0.95 -0.17	34.27 0.89 -0.24	36.91 1.20 -0.40	45.96 1.24 -0.61	48.85 1.29 0.30	50.33 1.37 0.03	48.22 1.52 -0.77	45.98 2.00 -0.57	45.66 2.13 -0.95	44.98 2.34 -0.94	47.59 2.30 -1.07	48.94 2.41 -1.15	50.88 2.68 -1.24	57.91 2.94 -1.45	68.71 3.23 -0.82	69.84 3.13 -1.41	60.68 2.54 -0.51	50.56 1.51 -0.40	47.32 1.59 -0.34	46.23 1.64 -0.27	43.94 1.58 -0.81
GLENWOOD____5 23614	44.81 1.77 -0.90	38.86 1.47 -0.54	34.95 1.17 -0.29	32.95 0.95 -0.17	34.27 0.89 -0.24	36.91 1.20 -0.40	45.96 1.24 -0.61	48.85 1.29 0.30	50.33 1.37 0.03	48.22 1.52 -0.77	45.98 2.00 -0.57	45.66 2.13 -0.95	44.98 2.34 -0.94	47.59 2.30 -1.07	48.94 2.41 -1.15	50.88 2.68 -1.24	57.91 2.94 -1.45	68.71 3.23 -0.82	69.84 3.13 -1.41	60.68 2.54 -0.51	50.56 1.51 -0.40	47.32 1.59 -0.34	46.23 1.64 -0.27	43.94 1.58 -0.81
GLOBAL GREEN_PORT_GT1 23814	44.18 1.14 -0.90	38.05 0.66 -0.54	34.04 0.27 -0.28	32.02 0.03 -0.17	33.30 -0.07 -0.23	36.27 0.56 -0.40	44.64 -0.09 -0.60	46.05 -0.14 1.66	46.54 0.15 2.59	46.66 1.01 0.29	44.46 1.35 0.30	45.36 1.83 -0.95	44.81 2.17 -0.93	47.58 2.30 -1.07	49.07 2.54 -1.15	51.11 2.91 -1.23	58.47 3.53 -1.43	69.61 4.14 -0.81	70.94 4.24 -1.40	61.72 3.57 -0.51	51.04 2.00 -0.39	46.86 1.63 0.16	44.37 1.20 1.16	43.68 1.33 -0.80
GLOBE____DSASP 323697	43.76 0.42 -1.20	38.09 0.41 -0.83	34.76 0.67 -0.60	33.04 0.73 -0.48	34.62 0.83 -0.66	36.86 0.74 -0.81	45.73 -0.40 -2.01	49.17 -1.00 -2.33	49.16 -1.52 -1.69	46.51 -0.92 -1.49	44.13 -0.61 -1.32	43.44 -0.43 -1.28	42.53 -0.46 -1.28	45.22 -0.40 -1.40	46.53 -0.32 -1.46	47.22 -1.31 -1.57	52.76 -2.78 -2.03	62.87 -4.01 -2.22	64.01 -4.18 -2.90	56.48 -3.52 -2.36	47.89 -2.48 -1.72	44.75 -2.13 -1.50	44.51 -1.24 -1.42	42.37 -0.42 -1.23
GOETHSLN____LBMP 323567	35.60 1.77 8.30	29.92 1.55 8.48	24.65 1.31 10.15	33.05 1.05 -0.18	34.34 0.96 -0.24	36.80 1.09 -0.40	46.01 1.28 -0.61	49.56 1.39 -0.32	51.63 1.47 -1.17	48.78 1.61 -1.24	46.41 2.00 -1.00	45.26 2.13 -0.55	44.02 2.34 0.02	47.55 2.25 -1.08	48.08 2.41 -0.29	50.03 2.63 -0.43	57.25 2.84 -0.90	68.34 3.10 -0.57	69.43 2.94 -1.20	60.05 2.36 -0.05	50.51 1.46 -0.40	47.67 1.72 -0.55	47.00 1.68 -0.99	43.98 1.62 -0.81
GOLAH____69_KV_TB 1_2 80279	44.10 0.80 -1.16	38.40 0.74 -0.80	34.84 0.77 -0.58	33.05 0.76 -0.46	34.63 0.86 -0.64	36.97 0.88 -0.79	47.04 0.97 -1.95	51.02 0.91 -2.26	51.27 0.64 -1.64	48.21 0.83 -1.44	45.57 0.87 -1.28	44.72 0.89 -1.24	43.74 0.79 -1.24	46.50 0.93 -1.36	47.75 0.95 -1.42	48.91 0.42 -1.52	55.36 -0.11 -1.96	66.54 -0.26 -2.14	67.83 -0.26 -2.80	59.97 0.06 -2.28	50.46 0.15 -1.66	47.02 0.18 -1.44	46.19 0.49 -1.37	43.07 0.33 -1.19
GOODYEAR_LAKE_HYD 323669	44.23 1.43 -0.66	38.57 1.25 -0.46	34.93 1.11 -0.33	33.14 1.05 -0.27	34.59 1.09 -0.36	36.92 1.17 -0.45	46.91 1.68 -1.11	50.96 1.82 -1.29	51.64 1.71 -0.94	48.28 1.52 -0.82	45.54 1.39 -0.73	44.65 1.36 -0.71	43.71 1.29 -0.71	46.27 1.28 -0.78	47.60 1.41 -0.81	49.29 1.46 -0.87	56.34 1.71 -1.12	68.01 2.13 -1.22	69.24 2.35 -1.59	61.12 2.19 -1.30	51.44 1.85 -0.95	47.94 1.72 -0.82	46.75 1.64 -0.78	43.56 1.33 -0.67
GOUDEY_115_KV_TB6_REV_LBMP_C 345031	44.33 0.63 -1.56	38.53 0.59 -1.08	34.84 0.57 -0.78	33.02 0.57 -0.63	34.62 0.63 -0.86	37.00 0.64 -1.06	47.53 0.79 -2.62	51.70 0.81 -3.04	51.89 0.69 -2.21	48.57 0.69 -1.94	45.84 0.69 -1.73	44.94 0.68 -1.67	44.08 0.71 -1.67	46.84 0.80 -1.83	48.20 0.91 -1.91	49.71 0.70 -2.05	56.68 0.54 -2.63	68.12 0.58 -2.88	69.70 0.65 -3.75	61.32 0.63 -3.06	51.46 0.58 -2.23	47.83 0.50 -1.94	46.84 0.66 -1.84	43.64 0.50 -1.59



GOUDEY___7 23579	44.33 0.63 -1.56	38.53 0.59 -1.08	34.84 0.57 -0.78	33.02 0.57 -0.63	34.62 0.63 -0.86	37.00 0.64 -1.06	47.53 0.79 -2.62	51.70 0.81 -3.04	51.89 0.69 -2.21	48.57 0.69 -1.94	45.84 0.69 -1.73	44.94 0.68 -1.67	44.08 0.71 -1.67	46.84 0.80 -1.83	48.20 0.91 -1.91	49.71 0.70 -2.05	56.68 0.54 -2.63	68.12 0.58 -2.88	69.70 0.65 -3.75	61.32 0.63 -3.06	51.46 0.58 -2.23	47.83 0.50 -1.94	46.84 0.66 -1.84	43.64 0.50 -1.59
GOUDEY___8 23580	44.33 0.63 -1.56	38.53 0.59 -1.08	34.84 0.57 -0.78	33.02 0.57 -0.63	34.62 0.63 -0.86	37.00 0.64 -1.06	47.53 0.79 -2.62	51.70 0.81 -3.04	51.89 0.69 -2.21	48.57 0.69 -1.94	45.84 0.69 -1.73	44.94 0.68 -1.67	44.08 0.71 -1.67	46.84 0.80 -1.83	48.20 0.91 -1.91	49.71 0.70 -2.05	56.68 0.54 -2.63	68.12 0.58 -2.88	69.70 0.65 -3.75	61.32 0.63 -3.06	51.46 0.58 -2.23	47.83 0.50 -1.94	46.84 0.66 -1.84	43.64 0.50 -1.59
GOWANUS_GT1_1 24077	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT1_2 24078	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT1_3 24079	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT1_4 24080	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT1_5 24084	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT1_6 24111	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT1_7 24112	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT1_8 24113	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	61.06 2.55 -15.93	80.59 2.46 -36.42	47.77 2.48 -1.08	80.86 2.36 -33.12	80.72 2.63 -31.13	76.90 2.84 -20.55	76.95 3.10 -9.19	76.88 2.94 -8.65	76.95 2.31 -17.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT2_1 24114	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT2_2 24115	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT2_3 24116	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT2_4 24117	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT2_5 24118	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81



GOWANUS_GT2_6 24119	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT2_7 24120	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT2_8 24121	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_1 24122	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_2 24123	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_3 24124	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_4 24125	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_5 24126	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_6 24127	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_7 24128	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT3_8 24129	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
GOWANUS_GT4_1 24130	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT4_2 24131	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT4_3 24132	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT4_4 24133	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81



GOWANUS_GT4_5 24134	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT4_6 24135	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT4_7 24136	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GOWANUS_GT4_8 24137	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	48.97 2.55 -3.84	51.93 2.46 -7.76	47.77 2.48 -1.08	55.05 2.36 -7.31	56.58 2.63 -6.99	61.45 2.84 -5.10	70.18 3.10 -2.42	71.03 2.94 -2.79	63.61 2.31 -3.67	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GREATVR_69_KV_BK1 356245	44.98 1.94 -0.90	38.86 1.47 -0.54	34.81 1.04 -0.28	32.76 0.76 -0.17	34.06 0.70 -0.23	36.98 1.27 -0.40	45.83 1.10 -0.60	47.22 0.96 1.59	47.55 1.03 2.47	46.85 1.15 0.24	44.85 1.69 0.26	45.44 1.92 -0.95	44.94 2.29 -0.93	47.49 2.21 -1.07	49.07 2.54 -1.15	51.11 2.91 -1.23	58.37 3.42 -1.43	69.28 3.81 -0.81	70.49 3.79 -1.41	61.37 3.23 -0.51	50.80 1.75 -0.39	46.94 1.68 0.14	44.66 1.42 1.09	43.98 1.62 -0.80
GREENBSH_115KV_TB3 55895	41.16 -0.38 0.60	36.20 -0.29 0.36	33.00 -0.30 0.19	31.42 -0.29 0.12	32.71 -0.27 0.16	34.79 -0.25 0.27	43.36 -0.35 0.41	47.35 -0.29 0.22	47.91 -0.29 0.79	44.69 -0.41 0.83	42.13 -0.61 0.67	41.34 -0.60 0.64	40.49 -0.58 0.63	42.92 -0.57 0.72	44.06 -0.54 0.78	45.76 -0.38 0.83	52.13 -0.43 0.95	61.18 -0.52 2.96	55.11 -0.59 9.60	51.65 -0.63 5.35	47.85 -0.54 0.27	44.66 -0.36 0.37	43.18 -0.49 0.66	40.80 -0.21 0.54
GREENDGE_115KV_TB5 80291	45.57 1.47 -1.96	39.84 1.62 -1.36	36.11 1.64 -0.98	34.17 1.56 -0.79	35.97 1.76 -1.08	38.54 1.91 -1.33	49.62 2.21 -3.29	54.11 2.44 -3.82	53.92 2.16 -2.78	50.26 1.88 -2.44	47.19 1.61 -2.17	46.17 1.49 -2.10	45.30 1.50 -2.09	48.23 1.72 -2.29	49.55 1.77 -2.39	51.08 1.55 -2.57	57.28 0.48 -3.29	68.96 0.71 -3.59	71.03 1.04 -4.69	62.49 1.04 -3.82	52.31 0.88 -2.79	48.45 0.64 -2.42	47.52 0.89 -2.30	44.08 0.54 -1.99
GREENIDGE___3 23582	45.57 1.47 -1.96	39.84 1.62 -1.36	36.11 1.64 -0.98	34.17 1.56 -0.79	35.97 1.76 -1.08	38.54 1.91 -1.33	49.62 2.21 -3.29	54.11 2.44 -3.82	53.92 2.16 -2.78	50.26 1.88 -2.44	47.19 1.61 -2.17	46.17 1.49 -2.10	45.30 1.50 -2.09	48.23 1.72 -2.29	49.55 1.77 -2.39	51.08 1.55 -2.57	57.28 0.48 -3.29	68.96 0.71 -3.59	71.03 1.04 -4.69	62.49 1.04 -3.82	52.31 0.88 -2.79	48.45 0.64 -2.42	47.52 0.89 -2.30	44.08 0.54 -1.99
GREENIDGE___4 23583	45.57 1.47 -1.96	39.83 1.62 -1.36	36.11 1.64 -0.98	34.17 1.56 -0.79	35.97 1.75 -1.08	38.54 1.91 -1.33	49.62 2.21 -3.29	54.25 2.58 -3.82	54.07 2.30 -2.78	50.31 1.93 -2.44	47.19 1.61 -2.17	46.17 1.49 -2.10	45.34 1.54 -2.09	48.23 1.72 -2.29	49.54 1.77 -2.39	51.13 1.60 -2.57	56.91 0.59 -2.81	68.44 0.71 -3.07	70.34 1.04 -4.01	61.99 1.09 -3.27	51.96 0.92 -2.38	48.10 0.64 -2.07	47.18 0.89 -1.97	44.25 1.00 -1.70
GREENLWN_69_KV_BK 3 55738	43.92 0.88 -0.90	38.09 0.70 -0.54	34.14 0.37 -0.28	32.18 0.19 -0.17	33.47 0.10 -0.23	36.20 0.49 -0.40	44.68 -0.04 -0.60	45.91 -0.33 1.61	46.24 -0.24 2.50	45.64 -0.05 0.25	43.67 0.52 0.27	44.21 0.68 -0.95	43.64 1.00 -0.93	46.21 0.93 -1.07	47.62 1.09 -1.15	49.61 1.41 -1.23	56.55 1.61 -1.43	67.08 1.62 -0.81	68.20 1.50 -1.41	59.35 1.21 -0.51	49.29 0.24 -0.39	45.56 0.32 0.14	43.40 0.18 1.11	42.77 0.42 -0.80
GREENWD_138_KV_38B11_REV_LBMP_J 345004	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	53.81 2.55 -8.67	63.40 2.46 -19.23	47.77 2.48 -1.08	65.38 2.36 -17.64	66.24 2.63 -16.65	67.63 2.84 -11.28	72.88 3.10 -5.12	73.37 2.94 -5.13	68.95 2.31 -9.01	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81
GRISSOM___SOLAR 323813	43.68 2.02 0.48	38.33 1.77 0.29	34.91 1.57 0.16	33.23 1.50 0.09	34.63 1.62 0.13	36.89 1.80 0.22	46.26 2.47 0.33	50.50 2.82 0.17	50.41 2.06 0.63	46.51 1.24 0.67	43.44 0.56 0.54	42.23 0.17 0.52	41.08 -0.12 0.51	43.59 -0.04 0.58	44.80 0.05 0.63	46.72 0.42 0.67	53.92 1.18 0.77	67.02 2.52 0.16	69.04 3.52 -0.23	61.10 3.17 -0.30	51.25 2.82 0.22	47.77 2.68 0.30	46.14 2.35 0.53	43.02 1.91 0.44
GROVEVILLE___HYD 323602	44.53 1.69 -0.71	38.75 1.47 -0.42	34.93 1.21 -0.23	33.04 1.08 -0.14	34.38 1.06 -0.19	36.82 1.20 -0.31	46.10 1.50 -0.48	49.64 1.53 -0.25	51.48 1.57 -0.92	48.47 1.56 -0.97	45.98 1.78 -0.79	45.08 1.75 -0.75	44.32 1.88 -0.74	47.01 1.95 -0.85	48.42 2.13 -0.91	50.43 2.49 -0.97	57.25 2.62 -1.12	68.39 3.10 -0.63	69.46 3.07 -1.10	60.56 2.54 -0.39	50.77 1.80 -0.32	47.77 1.95 -0.43	46.92 1.82 -0.77	43.93 1.75 -0.64
GRS_LOCK_115KV_LINE_2_SOLVAY 80269	45.31 0.08 -3.08	39.26 0.04 -2.36	35.50 0.10 -1.91	33.60 0.10 -1.68	35.12 0.13 -1.85	38.31 0.14 -2.87	50.35 0.26 -5.97	54.82 0.33 -6.63	54.25 0.29 -4.97	50.05 0.28 -3.84	46.99 0.22 -3.36	46.10 0.21 -3.31	45.20 0.25 -3.24	48.45 0.27 -3.97	49.72 0.23 -4.11	51.40 0.14 -4.30	59.38 0.16 -5.71	70.45 0.19 -5.60	73.12 0.33 -7.50	64.48 0.29 -6.55	53.43 0.24 -4.54	49.50 0.14 -3.97	48.14 0.22 -3.59	44.69 0.04 -3.10
HAMLTNNY_34_KV_TB 80303	45.44 0.21 -3.09	39.38 0.18 -2.34	35.59 0.23 -1.86	33.67 0.22 -1.62	35.23 0.27 -1.84	38.36 0.28 -2.77	50.43 0.44 -5.87	54.94 0.53 -6.56	54.33 0.44 -4.90	50.24 0.46 -3.84	47.18 0.39 -3.37	46.28 0.38 -3.31	45.33 0.38 -3.25	48.59 0.44 -3.93	49.86 0.41 -4.07	51.52 0.28 -4.27	59.43 0.27 -5.65	70.60 0.32 -5.62	73.25 0.46 -7.50	64.53 0.40 -6.50	53.52 0.34 -4.53	49.57 0.23 -3.95	48.28 0.35 -3.60	44.78 0.12 -3.11



HAMPSHIRE___PAPER_HYD 323593	45.50 1.18 -2.18	45.51 1.03 -7.62	45.35 0.84 -11.02	45.28 0.73 -12.72	39.23 0.73 -5.37	58.63 0.88 -22.44	70.35 1.23 -25.00	70.50 1.34 -21.31	69.60 1.27 -19.34	49.80 1.01 -2.85	45.03 0.56 -1.05	45.45 0.51 -2.36	43.14 0.42 -1.01	56.94 0.31 -12.41	57.56 0.27 -11.91	57.00 0.19 -9.85	71.36 0.43 -17.42	66.92 0.51 -1.75	73.86 0.91 -7.65	76.79 1.04 -18.11	56.21 0.92 -6.63	52.94 1.00 -6.55	46.47 1.02 -1.12	43.39 0.87 -0.97
HARDSCRABBLE_WT_PWR 323673	42.44 0.25 -0.04	37.28 0.19 -0.24	33.96 0.10 -0.37	32.32 0.06 -0.43	33.34 0.03 -0.17	36.14 0.07 -0.76	45.20 0.27 -0.82	48.72 0.19 -0.68	49.71 0.10 -0.63	46.04 0.05 -0.06	43.46 0.04 0.00	42.75 0.13 -0.05	41.63 -0.08 0.00	44.39 -0.22 -0.39	45.44 -0.32 -0.38	46.89 -0.38 -0.30	53.85 -0.21 -0.55	64.34 -0.32 0.00	65.55 0.07 -0.19	58.37 0.17 -0.57	48.98 0.15 -0.18	45.94 0.36 -0.19	44.73 0.40 0.00	41.84 0.29 0.00
HARRIMAN_69_KV_BK771_REV_LBMP_G 345025	44.55 1.60 -0.81	38.70 1.36 -0.48	34.86 1.11 -0.26	32.97 0.99 -0.16	34.28 0.93 -0.22	36.76 1.09 -0.36	45.99 1.32 -0.55	49.53 1.39 -0.29	51.47 1.42 -1.06	48.52 1.47 -1.12	46.05 1.74 -0.90	45.19 1.75 -0.86	44.43 1.88 -0.85	47.13 1.95 -0.97	48.56 2.13 -1.04	50.52 2.44 -1.12	57.36 2.57 -1.28	68.35 2.97 -0.72	69.49 2.94 -1.26	60.50 2.42 -0.45	50.67 1.65 -0.36	47.66 1.77 -0.49	46.90 1.68 -0.89	43.90 1.62 -0.73
HARSNRAD_115KV_TB1 81005	43.72 0.38 -1.20	38.09 0.41 -0.84	34.73 0.64 -0.60	33.01 0.70 -0.48	34.59 0.80 -0.66	36.83 0.71 -0.82	46.45 0.31 -2.02	50.19 0.00 -2.34	50.20 -0.49 -1.71	47.48 0.05 -1.50	45.01 0.26 -1.33	44.30 0.43 -1.29	43.37 0.38 -1.29	46.11 0.49 -1.41	47.49 0.64 -1.47	48.17 -0.38 -1.58	53.84 -1.71 -2.04	64.31 -2.59 -2.24	65.47 -2.74 -2.92	57.82 -2.19 -2.38	48.97 -1.41 -1.73	45.67 -1.23 -1.50	45.41 -0.35 -1.43	42.41 -0.37 -1.24
HARZA MOOSE___RIVER 24016	44.64 1.26 -1.24	40.49 1.07 -2.57	37.76 0.87 -3.40	36.40 0.76 -3.81	35.71 0.73 -1.85	42.89 0.88 -6.70	53.58 1.41 -8.05	56.56 1.53 -7.18	56.71 1.42 -6.30	48.62 1.10 -1.58	44.96 0.56 -0.99	44.46 0.55 -1.33	43.03 0.38 -0.95	48.77 0.35 -4.20	49.80 0.32 -4.10	50.87 0.33 -3.58	60.14 0.70 -5.93	67.21 0.91 -1.64	70.31 1.37 -3.65	65.37 1.44 -6.30	52.62 1.22 -2.75	49.09 1.09 -2.61	46.36 0.98 -1.05	43.12 0.66 -0.91
HDSNBRDG_115KV_BRDG_TB1 355580	44.09 -0.21 -2.16	38.42 -0.18 -1.75	34.85 -0.13 -1.50	33.06 -0.13 -1.36	34.40 -0.10 -1.36	37.54 -0.11 -2.34	48.60 -0.04 -4.52	52.72 -0.05 -4.92	52.63 -0.10 -3.74	48.59 -0.05 -2.69	45.66 -0.09 -2.33	44.81 -0.09 -2.32	43.92 -0.04 -2.25	47.11 -0.04 -2.94	48.36 -0.05 -3.03	49.90 -0.19 -3.12	57.52 -0.21 -4.22	68.29 -0.26 -3.89	70.40 -0.20 -5.30	62.28 -0.17 -4.81	51.74 -0.15 -3.24	48.05 -0.18 -2.84	46.73 -0.09 -2.49	43.45 -0.25 -2.15
HELLGATE_13_KV_LD 55870	45.19 2.15 -0.90	39.31 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.77 1.39 -0.24	37.19 1.48 -0.40	46.28 1.54 -0.61	50.04 1.87 -0.33	52.12 1.96 -1.17	49.34 2.16 -1.24	46.94 2.52 -1.00	46.73 2.68 -1.47	46.74 2.88 -2.15	48.12 2.83 -1.08	50.53 2.90 -2.25	52.37 3.15 -2.26	59.01 3.42 -2.07	69.50 3.75 -1.09	70.53 3.59 -1.65	61.58 2.88 -1.06	50.85 1.80 -0.40	48.17 2.22 -0.55	47.53 2.22 -0.99	44.53 2.16 -0.82
HELLGT_W_13_KV_BRUCKNER_REV_LBMP_J 345018	45.19 2.15 -0.90	39.31 1.92 -0.54	35.42 1.64 -0.29	33.46 1.46 -0.18	34.77 1.39 -0.24	37.19 1.48 -0.40	46.28 1.54 -0.61	50.04 1.87 -0.33	52.12 1.96 -1.17	49.34 2.16 -1.24	46.94 2.52 -1.00	46.73 2.68 -1.47	46.74 2.88 -2.15	48.12 2.83 -1.08	50.53 2.90 -2.25	52.37 3.15 -2.26	59.01 3.42 -2.07	69.50 3.75 -1.09	70.53 3.59 -1.65	61.58 2.88 -1.06	50.85 1.80 -0.40	48.17 2.22 -0.55	47.53 2.22 -0.99	44.53 2.16 -0.82
HEMPSTEAD____ 23647	44.43 1.39 -0.90	38.50 1.10 -0.54	34.58 0.80 -0.29	32.60 0.60 -0.17	33.90 0.53 -0.24	36.59 0.88 -0.40	45.43 0.70 -0.61	47.97 0.72 0.60	49.19 0.83 0.63	47.85 1.38 -0.53	45.19 1.43 -0.35	45.15 1.62 -0.95	44.40 1.75 -0.94	47.23 1.94 -1.07	48.62 2.09 -1.15	50.55 2.35 -1.24	57.53 2.57 -1.45	68.31 2.84 -0.81	69.45 2.74 -1.41	60.39 2.25 -0.51	50.31 1.26 -0.40	46.90 1.27 -0.24	45.35 1.11 0.09	43.14 0.79 -0.80
HICKLING___1 23621	44.87 1.10 -1.64	39.02 1.03 -1.14	35.38 1.07 -0.82	33.53 1.05 -0.66	35.23 1.19 -0.90	37.65 1.24 -1.11	48.37 1.50 -2.75	52.57 1.53 -3.19	52.54 1.22 -2.32	49.17 1.19 -2.04	46.36 1.13 -1.81	45.45 1.11 -1.76	44.58 1.13 -1.75	47.46 1.33 -1.92	48.84 1.45 -2.00	50.15 1.03 -2.15	56.85 0.59 -2.75	68.32 0.65 -3.01	70.14 0.91 -3.93	61.76 0.92 -3.20	51.86 0.88 -2.34	48.10 0.68 -2.03	47.28 1.02 -1.93	43.97 0.75 -1.67
HICKLING___2 23622	44.87 1.10 -1.64	39.02 1.03 -1.14	35.38 1.07 -0.82	33.53 1.05 -0.66	35.23 1.19 -0.90	37.65 1.24 -1.11	48.37 1.50 -2.75	52.57 1.53 -3.19	52.54 1.22 -2.32	49.17 1.19 -2.04	46.36 1.13 -1.81	45.45 1.11 -1.76	44.58 1.13 -1.75	47.46 1.33 -1.92	48.84 1.45 -2.00	50.15 1.03 -2.15	56.85 0.59 -2.75	68.32 0.65 -3.01	70.14 0.91 -3.93	61.76 0.92 -3.20	51.86 0.88 -2.34	48.10 0.68 -2.03	47.28 1.02 -1.93	43.97 0.75 -1.67
HIGH FALLS___HY 23754	44.58 1.94 -0.50	38.81 1.66 -0.30	34.99 1.34 -0.16	33.13 1.21 -0.10	34.46 1.19 -0.13	36.87 1.34 -0.22	46.18 1.72 -0.34	49.80 1.77 -0.18	51.41 1.76 -0.65	48.33 1.70 -0.69	45.97 2.00 -0.56	45.07 1.96 -0.53	44.32 2.09 -0.52	47.03 2.21 -0.60	48.43 2.41 -0.64	50.47 2.82 -0.69	57.35 3.05 -0.79	68.55 3.69 -0.21	68.89 3.66 0.06	60.48 3.05 0.21	51.11 2.24 -0.22	48.01 2.31 -0.31	47.09 2.22 -0.55	44.00 1.99 -0.45
HIGH_RIVER___SOLAR 323847	42.76 1.14 0.51	37.58 1.03 0.31	34.23 0.90 0.17	32.58 0.86 0.10	33.92 0.93 0.14	36.06 0.99 0.23	45.14 1.37 0.35	49.15 1.49 0.18	49.35 1.03 0.67	45.69 0.46 0.71	42.84 0.00 0.57	41.82 -0.21 0.55	40.83 -0.34 0.54	43.38 -0.22 0.62	44.58 -0.14 0.66	46.49 0.24 0.71	53.39 0.69 0.81	65.69 1.49 0.46	66.52 2.03 0.80	59.14 1.79 0.29	50.02 1.60 0.23	46.62 1.54 0.31	45.09 1.33 0.56	42.12 1.04 0.47
HILLBURN___GT 23639	44.53 1.56 -0.83	38.71 1.36 -0.50	34.86 1.10 -0.27	32.94 0.95 -0.16	34.25 0.89 -0.22	36.74 1.06 -0.37	45.97 1.28 -0.57	49.58 1.43 -0.30	51.54 1.47 -1.08	48.69 1.61 -1.14	46.12 1.78 -0.93	45.34 1.87 -0.89	44.50 1.92 -0.87	47.33 2.12 -1.00	48.76 2.31 -1.07	50.60 2.49 -1.15	57.50 2.67 -1.31	68.44 3.04 -0.74	69.52 2.94 -1.29	60.46 2.36 -0.46	50.68 1.66 -0.37	47.62 1.72 -0.51	46.88 1.64 -0.91	43.55 1.25 -0.75
HILLSIDE_115KV_TB1 80332	44.32 0.55 -1.64	38.51 0.52 -1.13	34.91 0.60 -0.82	33.09 0.60 -0.66	34.73 0.70 -0.90	37.12 0.71 -1.11	47.71 0.84 -2.75	51.80 0.77 -3.19	51.80 0.49 -2.32	48.48 0.51 -2.04	45.79 0.56 -1.81	44.89 0.55 -1.76	44.04 0.58 -1.75	46.88 0.75 -1.92	48.29 0.91 -2.00	49.58 0.47 -2.15	56.26 0.00 -2.75	67.60 -0.06 -3.01	69.28 0.07 -3.93	61.01 0.17 -3.20	51.18 0.19 -2.33	47.51 0.09 -2.03	46.66 0.40 -1.93	43.42 0.21 -1.67



HISHELDN_WT_PWR 323625	44.15 0.67 -1.34	38.45 0.66 -0.93	35.00 0.84 -0.67	33.28 0.92 -0.54	34.90 1.03 -0.74	37.24 1.02 -0.91	47.25 0.88 -2.24	51.32 0.86 -2.60	51.27 0.39 -1.89	48.06 0.46 -1.66	45.46 0.56 -1.48	44.61 0.60 -1.43	43.80 0.67 -1.43	46.48 0.71 -1.57	47.88 0.86 -1.63	48.90 0.19 -1.75	54.90 -0.86 -2.25	65.56 -1.55 -2.46	67.06 -1.44 -3.21	59.32 -0.92 -2.61	50.07 -0.49 -1.91	46.59 -0.45 -1.65	46.17 0.27 -1.58	43.99 1.08 -1.36
HOLTSVILLE_IC_1 23690	44.22 1.18 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.34 0.64 -0.40	44.99 0.27 -0.60	46.33 0.14 1.66	46.58 0.20 2.60	46.51 0.87 0.29	43.94 0.82 0.30	44.63 1.11 -0.95	43.98 1.33 -0.93	46.61 1.33 -1.07	48.08 1.54 -1.15	50.03 1.83 -1.23	57.09 2.14 -1.43	67.73 2.26 -0.81	68.85 2.15 -1.40	60.04 1.90 -0.51	49.87 0.83 -0.39	45.95 0.72 0.16	43.79 0.62 1.16	42.97 0.62 -0.80
HOLTSVILLE_IC_10 23699	44.43 1.39 -0.90	38.39 1.00 -0.54	34.38 0.60 -0.28	32.38 0.38 -0.17	33.63 0.26 -0.23	36.52 0.81 -0.40	45.21 0.49 -0.60	46.59 0.38 1.64	46.86 0.44 2.57	46.76 1.10 0.28	44.16 1.04 0.29	44.89 1.36 -0.95	44.23 1.58 -0.93	46.92 1.64 -1.07	48.39 1.86 -1.15	50.36 2.16 -1.23	57.51 2.57 -1.43	68.18 2.72 -0.81	69.31 2.61 -1.40	60.45 2.31 -0.51	50.21 1.17 -0.39	46.28 1.04 0.16	44.02 0.84 1.14	43.18 0.83 -0.80
HOLTSVILLE_IC_2 23691	44.22 1.18 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.34 0.64 -0.40	44.99 0.27 -0.60	46.33 0.14 1.66	46.58 0.20 2.60	46.51 0.87 0.29	43.94 0.82 0.30	44.63 1.11 -0.95	43.98 1.33 -0.93	46.61 1.33 -1.07	48.08 1.54 -1.15	50.03 1.83 -1.23	57.09 2.14 -1.43	67.73 2.26 -0.81	68.85 2.15 -1.40	60.04 1.90 -0.51	49.87 0.83 -0.39	45.95 0.72 0.16	43.79 0.62 1.16	42.97 0.62 -0.80
HOLTSVILLE_IC_3 23692	44.22 1.18 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.34 0.64 -0.40	44.99 0.27 -0.60	46.33 0.14 1.66	46.58 0.20 2.60	46.51 0.87 0.29	43.94 0.82 0.30	44.63 1.11 -0.95	43.98 1.33 -0.93	46.61 1.33 -1.07	48.08 1.54 -1.15	50.03 1.83 -1.23	57.09 2.14 -1.43	67.73 2.26 -0.81	68.85 2.15 -1.40	60.04 1.90 -0.51	49.87 0.83 -0.39	45.95 0.72 0.16	43.79 0.62 1.16	42.97 0.62 -0.80
HOLTSVILLE_IC_4 23693	44.22 1.18 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.34 0.64 -0.40	44.99 0.27 -0.60	46.33 0.14 1.66	46.58 0.20 2.60	46.51 0.87 0.29	43.94 0.82 0.30	44.63 1.11 -0.95	43.98 1.33 -0.93	46.61 1.33 -1.07	48.08 1.54 -1.15	50.03 1.83 -1.23	57.09 2.14 -1.43	67.73 2.26 -0.81	68.85 2.15 -1.40	60.04 1.90 -0.51	49.87 0.83 -0.39	45.95 0.72 0.16	43.79 0.62 1.16	42.97 0.62 -0.80
HOLTSVILLE_IC_5 23694	44.22 1.18 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.34 0.64 -0.40	44.99 0.27 -0.60	46.33 0.14 1.66	46.58 0.20 2.60	46.51 0.87 0.29	43.94 0.82 0.30	44.63 1.11 -0.95	43.98 1.33 -0.93	46.61 1.33 -1.07	48.08 1.54 -1.15	50.03 1.83 -1.23	57.09 2.14 -1.43	67.73 2.26 -0.81	68.85 2.15 -1.40	60.04 1.90 -0.51	49.87 0.83 -0.39	45.95 0.72 0.16	43.79 0.62 1.16	42.97 0.62 -0.80
HOLTSVILLE_IC_6 23695	44.43 1.39 -0.90	38.39 1.00 -0.54	34.38 0.60 -0.28	32.38 0.38 -0.17	33.63 0.26 -0.23	36.52 0.81 -0.40	45.21 0.49 -0.60	46.59 0.38 1.64	46.86 0.44 2.57	46.76 1.10 0.28	44.16 1.04 0.29	44.89 1.36 -0.95	44.23 1.58 -0.93	46.92 1.64 -1.07	48.39 1.86 -1.15	50.36 2.16 -1.23	57.51 2.57 -1.43	68.18 2.72 -0.81	69.31 2.61 -1.40	60.45 2.31 -0.51	50.21 1.17 -0.39	46.28 1.04 0.16	44.02 0.84 1.14	43.18 0.83 -0.80
HOLTSVILLE_IC_7 23696	44.43 1.39 -0.90	38.39 1.00 -0.54	34.38 0.60 -0.28	32.38 0.38 -0.17	33.63 0.26 -0.23	36.52 0.81 -0.40	45.21 0.49 -0.60	46.59 0.38 1.64	46.86 0.44 2.57	46.76 1.10 0.28	44.16 1.04 0.29	44.89 1.36 -0.95	44.23 1.58 -0.93	46.92 1.64 -1.07	48.39 1.86 -1.15	50.36 2.16 -1.23	57.51 2.57 -1.43	68.18 2.72 -0.81	69.31 2.61 -1.40	60.45 2.31 -0.51	50.21 1.17 -0.39	46.28 1.04 0.16	44.02 0.84 1.14	43.18 0.83 -0.80
HOLTSVILLE_IC_8 23697	44.43 1.39 -0.90	38.39 1.00 -0.54	34.38 0.60 -0.28	32.38 0.38 -0.17	33.63 0.26 -0.23	36.52 0.81 -0.40	45.21 0.49 -0.60	46.59 0.38 1.64	46.86 0.44 2.57	46.76 1.10 0.28	44.16 1.04 0.29	44.89 1.36 -0.95	44.23 1.58 -0.93	46.92 1.64 -1.07	48.39 1.86 -1.15	50.36 2.16 -1.23	57.51 2.57 -1.43	68.18 2.72 -0.81	69.31 2.61 -1.40	60.45 2.31 -0.51	50.21 1.17 -0.39	46.28 1.04 0.16	44.02 0.84 1.14	43.18 0.83 -0.80
HOLTSVILLE_IC_9 23698	44.43 1.39 -0.90	38.39 1.00 -0.54	34.38 0.60 -0.28	32.38 0.38 -0.17	33.63 0.26 -0.23	36.52 0.81 -0.40	45.21 0.49 -0.60	46.59 0.38 1.64	46.86 0.44 2.57	46.76 1.10 0.28	44.16 1.04 0.29	44.89 1.36 -0.95	44.23 1.58 -0.93	46.92 1.64 -1.07	48.39 1.86 -1.15	50.36 2.16 -1.23	57.51 2.57 -1.43	68.18 2.72 -0.81	69.31 2.61 -1.40	60.45 2.31 -0.51	50.21 1.17 -0.39	46.28 1.04 0.16	44.02 0.84 1.14	43.18 0.83 -0.80
HOMER_HL_115KV_TB2 355744	43.96 0.55 -1.27	38.29 0.55 -0.88	34.76 0.64 -0.64	33.07 0.73 -0.51	34.63 0.80 -0.70	37.02 0.85 -0.86	47.32 1.06 -2.14	51.33 1.00 -2.48	51.28 0.49 -1.80	48.30 0.78 -1.58	45.78 0.96 -1.41	45.01 1.06 -1.37	44.07 1.00 -1.36	46.94 1.24 -1.49	48.52 1.59 -1.55	49.24 0.61 -1.67	55.26 -0.48 -2.23	65.93 -1.16 -2.44	67.36 -1.11 -3.18	59.42 -0.81 -2.59	50.10 -0.44 -1.89	46.49 -0.54 -1.64	45.98 0.09 -1.56	42.73 -0.17 -1.35
HOWARD_WT_PWR 323690	45.12 1.35 -1.63	39.24 1.25 -1.13	35.68 1.37 -0.81	33.85 1.37 -0.65	35.59 1.56 -0.90	38.07 1.66 -1.10	48.75 1.90 -2.74	53.18 2.16 -3.17	52.96 1.67 -2.31	49.34 1.38 -2.03	46.43 1.21 -1.80	45.48 1.15 -1.75	44.66 1.21 -1.74	47.54 1.41 -1.91	48.87 1.50 -1.99	50.27 1.17 -2.14	56.63 0.59 -2.53	68.00 0.58 -2.76	69.94 1.04 -3.60	61.84 1.27 -2.94	52.05 1.26 -2.14	48.30 1.04 -1.86	47.61 1.51 -1.77	44.95 1.87 -1.53
HQ_GEN_CEDARS 23644	45.31 0.63 -2.54	51.72 0.55 -14.32	55.67 0.50 -21.68	57.67 0.48 -25.37	43.59 0.50 -9.96	80.64 0.53 -44.81	92.77 0.53 -48.12	88.39 0.53 -40.01	86.62 0.64 -36.99	50.02 0.64 -3.44	44.02 0.61 0.00	45.88 0.55 -2.75	42.25 0.54 0.00	68.02 0.57 -23.23	67.98 0.50 -22.10	65.13 0.47 -17.69	86.64 0.59 -32.54	65.43 0.78 0.00	77.19 0.85 -11.05	91.81 0.75 -33.42	60.18 0.68 -10.85	57.03 0.59 -11.05	44.95 0.62 0.00	42.22 0.66 0.00
HQ_GEN_CEDARS_PROXY 323590	45.31 0.63 -2.54	51.72 0.55 -14.32	55.67 0.50 -21.68	57.67 0.48 -25.37	43.59 0.50 -9.96	80.64 0.53 -44.81	92.77 0.53 -48.12	88.39 0.53 -40.01	86.62 0.64 -36.99	50.02 0.64 -3.44	44.02 0.61 0.00	45.88 0.55 -2.75	42.29 0.58 0.00	67.97 0.53 -23.23	67.98 0.50 -22.10	65.13 0.47 -17.69	86.64 0.59 -32.54	65.44 0.78 0.00	77.19 0.85 -11.05	91.80 0.75 -33.42	60.13 0.63 -10.85	57.03 0.59 -11.05	46.65 0.67 -1.66	40.64 0.75 1.66



HQ_GEN_IMPORT 323601	42.17 0.13 0.10	36.43 0.11 0.54	32.78 0.10 0.82	30.97 0.10 0.95	32.86 0.10 0.37	33.73 0.11 1.68	42.40 0.09 1.81	46.39 0.05 1.50	47.75 0.15 1.39	45.95 0.14 0.13	43.54 0.13 0.00	42.60 0.13 0.10	41.83 0.13 0.00	43.43 0.09 0.87	44.60 0.05 0.83	46.35 0.05 0.67	52.39 0.11 1.22	64.85 0.19 0.00	65.07 0.20 0.42	56.55 0.17 1.26	48.39 0.15 0.41	45.11 0.14 0.42	46.16 0.18 -1.66	40.10 0.21 1.66
HQ_GEN_WHEEL 23651	42.17 0.13 0.10	36.43 0.11 0.54	32.78 0.10 0.82	30.97 0.10 0.95	32.86 0.10 0.37	33.73 0.11 1.68	42.40 0.09 1.81	46.39 0.05 1.50	47.75 0.15 1.39	45.95 0.14 0.13	43.54 0.13 0.00	42.60 0.13 0.10	41.83 0.13 0.00	43.43 0.09 0.87	44.60 0.05 0.83	46.35 0.05 0.67	52.39 0.11 1.22	64.85 0.19 0.00	65.07 0.20 0.42	56.55 0.17 1.26	48.39 0.15 0.41	45.11 0.14 0.42	46.16 0.18 -1.66	40.10 0.21 1.66
HUDSON AVE_GT_3 23810	45.14 2.11 -0.90	39.23 1.84 -0.54	35.32 1.54 -0.29	33.30 1.30 -0.18	34.60 1.23 -0.24	37.09 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.07 1.91 -1.17	49.20 2.02 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.36 2.71 -0.94	47.99 2.70 -1.08	49.40 2.86 -1.16	51.30 3.10 -1.24	58.30 3.37 -1.42	69.14 3.69 -0.80	70.28 3.59 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.03 2.09 -0.55	47.40 2.08 -0.99	44.32 1.95 -0.81
HUDSON AVE_GT_4 23540	45.14 2.11 -0.90	39.23 1.84 -0.54	35.32 1.54 -0.29	33.30 1.30 -0.18	34.60 1.23 -0.24	37.09 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.07 1.91 -1.17	49.20 2.02 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.36 2.71 -0.94	47.99 2.70 -1.08	49.40 2.86 -1.16	51.30 3.10 -1.24	58.30 3.37 -1.42	69.14 3.69 -0.80	70.28 3.59 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.03 2.09 -0.55	47.40 2.08 -0.99	44.32 1.95 -0.81
HUDSON AVE_GT_5 23657	45.14 2.11 -0.90	39.23 1.84 -0.54	35.32 1.54 -0.29	33.30 1.30 -0.18	34.60 1.23 -0.24	37.09 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.07 1.91 -1.17	49.20 2.02 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.36 2.71 -0.94	47.99 2.70 -1.08	49.40 2.86 -1.16	51.30 3.10 -1.24	58.30 3.37 -1.42	69.14 3.69 -0.80	70.28 3.59 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.03 2.09 -0.55	47.40 2.08 -0.99	44.32 1.95 -0.81
HUDSON_AVE_10 24168	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.01 1.31 -0.40	46.28 1.54 -0.61	49.85 1.53 -0.46	52.04 1.67 -1.39	49.10 1.79 -1.37	46.72 2.30 -1.00	45.97 2.43 -0.96	45.23 2.59 -0.94	47.86 2.56 -1.08	49.26 2.72 -1.16	51.21 3.01 -1.24	58.20 3.26 -1.42	69.08 3.62 -0.80	70.15 3.46 -1.40	60.96 2.82 -0.50	50.90 1.85 -0.40	47.94 2.00 -0.55	47.31 1.99 -0.99	44.27 1.91 -0.81
HUDSON___115KV_TB 4 355613	42.28 0.55 0.41	37.09 0.48 0.25	33.76 0.40 0.13	32.13 0.38 0.08	33.49 0.46 0.11	35.65 0.53 0.18	44.55 0.71 0.28	49.00 1.29 0.15	49.38 0.93 0.54	45.78 0.41 0.57	42.91 -0.04 0.46	41.89 -0.26 0.44	40.94 -0.33 0.43	43.46 -0.27 0.49	44.67 -0.18 0.53	46.58 0.19 0.57	53.29 0.43 0.65	63.25 0.78 2.18	59.15 0.98 7.12	54.46 0.81 3.98	49.20 0.73 0.18	45.91 0.77 0.25	44.41 0.53 0.45	42.09 0.91 0.37
HUNTER MOUNT___DRP 323613	42.81 0.93 0.26	37.51 0.81 0.15	34.11 0.70 0.08	32.44 0.67 0.05	33.83 0.76 0.07	36.04 0.85 0.12	45.13 1.19 0.18	49.48 1.72 0.09	50.02 1.37 0.34	46.31 0.74 0.36	43.25 0.13 0.29	42.17 -0.13 0.28	41.23 -0.21 0.27	43.81 -0.09 0.31	45.05 0.00 0.33	47.07 0.47 0.36	53.85 0.75 0.41	64.32 1.36 1.69	61.30 1.63 5.62	55.79 1.33 3.17	49.70 1.17 0.12	46.41 1.18 0.16	44.97 0.93 0.28	42.56 1.25 0.23
HUNTINGTON_RES_REC 323705	44.13 1.09 -0.90	38.20 0.81 -0.54	34.21 0.43 -0.28	32.25 0.25 -0.17	33.50 0.13 -0.23	36.31 0.60 -0.40	44.86 0.13 -0.60	46.16 -0.05 1.64	46.43 0.00 2.56	46.35 0.69 0.28	43.82 0.69 0.29	44.46 0.94 -0.95	43.77 1.13 -0.93	46.52 1.24 -1.07	47.99 1.45 -1.15	49.94 1.74 -1.23	56.98 2.03 -1.43	67.54 2.07 -0.81	68.66 1.96 -1.40	59.87 1.73 -0.51	49.77 0.73 -0.39	45.87 0.64 0.16	43.63 0.44 1.14	42.81 0.46 -0.80
HUNTLEY___63 23557	44.28 0.93 -1.21	38.58 0.88 -0.84	35.14 1.04 -0.61	33.42 1.11 -0.49	34.99 1.19 -0.67	37.29 1.17 -0.82	46.86 0.71 -2.03	50.54 0.33 -2.36	50.61 -0.10 -1.72	47.81 0.37 -1.51	45.41 0.65 -1.34	44.65 0.77 -1.30	43.71 0.71 -1.29	46.47 0.84 -1.42	47.81 0.95 -1.48	48.55 0.00 -1.59	54.29 -1.28 -2.06	64.78 -2.13 -2.25	65.95 -2.29 -2.94	58.18 -1.84 -2.39	49.33 -1.07 -1.75	45.95 -0.95 -1.52	45.68 -0.09 -1.44	42.92 0.12 -1.25
HUNTLEY___64 23558	44.28 0.93 -1.21	38.58 0.88 -0.84	35.14 1.04 -0.61	33.42 1.11 -0.49	34.99 1.19 -0.67	37.29 1.17 -0.82	46.86 0.71 -2.03	50.54 0.33 -2.36	50.61 -0.10 -1.72	47.81 0.37 -1.51	45.41 0.65 -1.34	44.65 0.77 -1.30	43.71 0.71 -1.29	46.47 0.84 -1.42	47.81 0.95 -1.48	48.55 0.00 -1.59	54.29 -1.28 -2.06	64.78 -2.13 -2.25	65.95 -2.29 -2.94	58.18 -1.84 -2.39	49.33 -1.07 -1.75	45.95 -0.95 -1.52	45.68 -0.09 -1.44	42.92 0.12 -1.25
HUNTLEY___65 23559	44.28 0.93 -1.21	38.58 0.88 -0.84	35.14 1.04 -0.61	33.42 1.11 -0.49	34.99 1.19 -0.67	37.29 1.17 -0.82	46.86 0.71 -2.03	50.54 0.33 -2.36	50.61 -0.10 -1.72	47.81 0.37 -1.51	45.41 0.65 -1.34	44.65 0.77 -1.30	43.71 0.71 -1.29	46.47 0.84 -1.42	47.81 0.95 -1.48	48.55 0.00 -1.59	54.29 -1.28 -2.06	64.78 -2.13 -2.25	65.95 -2.29 -2.94	58.18 -1.84 -2.39	49.33 -1.07 -1.75	45.95 -0.95 -1.52	45.68 -0.09 -1.44	42.92 0.12 -1.25
HUNTLEY___66 23560	44.28 0.93 -1.21	38.58 0.88 -0.84	35.14 1.04 -0.61	33.42 1.11 -0.49	34.99 1.19 -0.67	37.29 1.17 -0.82	46.86 0.71 -2.03	50.54 0.33 -2.36	50.61 -0.10 -1.72	47.81 0.37 -1.51	45.41 0.65 -1.34	44.65 0.77 -1.30	43.71 0.71 -1.29	46.47 0.84 -1.42	47.81 0.95 -1.48	48.55 0.00 -1.59	54.29 -1.28 -2.06	64.78 -2.13 -2.25	65.95 -2.29 -2.94	58.18 -1.84 -2.39	49.33 -1.07 -1.75	45.95 -0.95 -1.52	45.68 -0.09 -1.44	42.92 0.12 -1.25
HUNTLEY___67 23561	43.85 0.51 -1.21	38.21 0.52 -0.84	34.80 0.70 -0.60	33.10 0.80 -0.48	34.66 0.86 -0.67	36.94 0.81 -0.82	46.59 0.44 -2.03	50.35 0.14 -2.35	50.36 -0.34 -1.71	47.63 0.18 -1.50	45.14 0.39 -1.34	44.43 0.55 -1.30	43.50 0.50 -1.29	46.25 0.62 -1.42	47.63 0.77 -1.48	48.36 -0.19 -1.58	54.12 -1.44 -2.06	64.64 -2.26 -2.25	65.81 -2.42 -2.93	58.07 -1.96 -2.39	49.18 -1.22 -1.74	45.86 -1.04 -1.51	45.55 -0.22 -1.44	42.55 -0.25 -1.24
HUNTLEY___68 23562	43.85 0.51 -1.21	38.21 0.52 -0.84	34.80 0.70 -0.60	33.10 0.80 -0.48	34.66 0.86 -0.67	36.94 0.81 -0.82	46.59 0.44 -2.03	50.35 0.14 -2.35	50.36 -0.34 -1.71	47.63 0.18 -1.50	45.14 0.39 -1.34	44.43 0.55 -1.30	43.50 0.50 -1.29	46.25 0.62 -1.42	47.63 0.77 -1.48	48.36 -0.19 -1.58	54.12 -1.44 -2.06	64.64 -2.26 -2.25	65.81 -2.42 -2.93	58.07 -1.96 -2.39	49.18 -1.22 -1.74	45.86 -1.04 -1.51	45.55 -0.22 -1.44	42.55 -0.25 -1.24



HYLAND___LFGE 323620	46.11 2.57 -1.40	40.11 2.29 -0.97	36.43 2.24 -0.70	34.55 2.17 -0.56	36.32 2.42 -0.77	38.83 2.58 -0.95	49.82 3.35 -2.35	54.31 3.73 -2.72	54.01 3.04 -1.98	49.84 2.16 -1.74	46.57 1.61 -1.55	45.40 1.32 -1.50	44.57 1.37 -1.49	47.44 1.59 -1.64	48.81 1.72 -1.71	50.48 1.69 -1.83	57.69 1.87 -2.31	70.02 2.84 -2.52	72.31 3.72 -3.29	64.24 3.92 -2.68	53.87 3.26 -1.96	49.91 2.82 -1.70	48.92 2.97 -1.62	46.10 3.16 -1.40
INDECK___CORINTH 23802	41.95 0.55 0.73	36.97 0.55 0.44	33.82 0.57 0.24	32.22 0.54 0.14	33.53 0.60 0.20	35.51 0.53 0.33	44.32 0.70 0.50	48.54 0.96 0.26	48.62 0.59 0.96	45.29 0.37 1.01	42.73 0.13 0.82	41.80 0.00 0.78	40.73 -0.21 0.77	43.38 0.04 0.88	44.39 -0.05 0.95	46.09 0.14 1.01	52.88 0.54 1.16	66.92 1.03 -1.23	72.25 1.37 -5.58	62.16 1.04 -3.49	49.39 1.07 0.33	46.03 1.09 0.45	44.23 0.71 0.80	41.26 0.37 0.66
INDECK___ILION 23567	42.35 0.17 -0.04	37.24 0.15 -0.24	33.96 0.10 -0.37	32.35 0.10 -0.43	33.40 0.10 -0.17	36.17 0.11 -0.76	45.16 0.22 -0.82	48.77 0.24 -0.68	49.81 0.20 -0.63	46.18 0.18 -0.06	43.54 0.13 0.00	42.80 0.17 -0.05	41.83 0.13 0.00	44.74 0.13 -0.39	45.89 0.14 -0.38	47.45 0.19 -0.30	54.33 0.27 -0.55	64.92 0.26 0.00	65.81 0.33 -0.19	58.49 0.29 -0.57	49.08 0.24 -0.18	45.81 0.23 -0.19	44.51 0.18 0.00	41.72 0.17 0.00
INDECK___OLEAN 23982	43.96 0.55 -1.27	38.29 0.55 -0.88	34.76 0.63 -0.64	33.07 0.73 -0.51	34.63 0.79 -0.70	37.01 0.85 -0.86	47.31 1.06 -2.14	51.57 1.24 -2.48	51.57 0.78 -1.80	48.39 0.87 -1.58	45.78 0.95 -1.41	45.01 1.06 -1.37	44.15 1.08 -1.36	46.99 1.28 -1.49	48.57 1.63 -1.55	49.34 0.71 -1.67	55.42 -0.32 -2.23	65.94 -1.16 -2.44	67.37 -1.11 -3.18	59.54 -0.69 -2.59	50.10 -0.44 -1.89	46.49 -0.54 -1.64	45.98 0.09 -1.56	43.61 0.71 -1.35
INDECK___OSWEGO 23783	47.44 -0.63 -5.94	40.81 -0.55 -4.51	36.62 -0.47 -3.60	34.52 -0.45 -3.14	36.21 -0.46 -3.54	40.17 -0.49 -5.36	54.96 -0.48 -11.33	60.01 -0.48 -12.64	57.85 -0.59 -9.45	52.73 -0.60 -7.39	49.29 -0.61 -6.48	48.35 -0.60 -6.37	47.37 -0.58 -6.25	51.22 -0.58 -7.58	52.59 -0.64 -7.84	54.48 -0.70 -8.22	63.58 -0.80 -10.88	74.41 -1.04 -10.78	78.79 -0.91 -14.41	69.39 -0.75 -12.50	56.72 -0.63 -8.70	52.36 -0.64 -7.60	50.66 -0.58 -6.91	46.94 -0.58 -5.97
INDECK___YERKES 23781	44.32 0.97 -1.21	38.62 0.92 -0.84	35.17 1.07 -0.61	33.45 1.14 -0.49	35.03 1.23 -0.67	37.33 1.20 -0.82	46.86 0.70 -2.03	50.83 0.62 -2.36	50.90 0.20 -1.72	47.95 0.51 -1.51	45.45 0.69 -1.34	44.69 0.81 -1.30	43.83 0.83 -1.29	46.52 0.88 -1.42	47.82 0.95 -1.48	48.74 0.19 -1.59	54.55 -1.07 -2.11	64.83 -2.13 -2.30	66.08 -2.22 -3.00	58.41 -1.67 -2.45	49.41 -1.02 -1.79	46.03 -0.91 -1.55	45.76 -0.04 -1.48	44.11 1.29 -1.27
INDIAN POINT_GT_1 24139	44.58 1.56 -0.89	38.71 1.33 -0.53	34.88 1.11 -0.29	32.92 0.92 -0.17	34.27 0.89 -0.24	36.73 1.02 -0.40	45.92 1.19 -0.60	49.46 1.29 -0.32	51.52 1.37 -1.16	48.63 1.47 -1.22	46.14 1.74 -0.99	45.36 1.83 -0.95	44.60 1.96 -0.93	47.27 1.99 -1.06	48.70 2.18 -1.14	50.58 2.40 -1.22	57.53 2.62 -1.40	68.29 2.84 -0.79	69.41 2.74 -1.38	60.37 2.25 -0.49	50.51 1.46 -0.40	47.57 1.63 -0.54	46.85 1.55 -0.97	43.85 1.50 -0.80
INDIAN POINT_GT_2 23659	44.58 1.56 -0.89	38.71 1.33 -0.53	34.88 1.11 -0.29	32.92 0.92 -0.17	34.27 0.89 -0.24	36.73 1.02 -0.40	45.92 1.19 -0.60	49.46 1.29 -0.32	51.52 1.37 -1.16	48.63 1.47 -1.22	46.14 1.74 -0.99	45.36 1.83 -0.95	44.60 1.96 -0.93	47.27 1.99 -1.06	48.70 2.18 -1.14	50.58 2.40 -1.22	57.53 2.62 -1.40	68.29 2.84 -0.79	69.41 2.74 -1.38	60.37 2.25 -0.49	50.51 1.46 -0.40	47.57 1.63 -0.54	46.85 1.55 -0.97	43.85 1.50 -0.80
INDIAN POINT_GT_3 24019	44.58 1.56 -0.89	38.71 1.33 -0.53	34.88 1.11 -0.29	32.92 0.92 -0.17	34.27 0.89 -0.24	36.73 1.02 -0.40	45.92 1.19 -0.60	49.46 1.29 -0.32	51.52 1.37 -1.16	48.63 1.47 -1.22	46.14 1.74 -0.99	45.36 1.83 -0.95	44.60 1.96 -0.93	47.27 1.99 -1.06	48.70 2.18 -1.14	50.58 2.40 -1.22	57.53 2.62 -1.40	68.29 2.84 -0.79	69.41 2.74 -1.38	60.37 2.25 -0.49	50.51 1.46 -0.40	47.57 1.63 -0.54	46.85 1.55 -0.97	43.85 1.50 -0.80
INDIAN POINT___2 23530	44.52 1.51 -0.86	38.70 1.32 -0.52	34.84 1.07 -0.28	32.92 0.92 -0.17	34.23 0.86 -0.23	36.72 1.02 -0.39	45.90 1.19 -0.59	49.50 1.34 -0.31	51.49 1.37 -1.13	48.64 1.51 -1.19	46.12 1.74 -0.96	45.33 1.83 -0.92	44.49 1.88 -0.90	47.33 2.08 -1.04	48.72 2.22 -1.11	50.55 2.39 -1.19	57.45 2.57 -1.37	68.34 2.91 -0.77	69.44 2.81 -1.34	60.36 2.25 -0.48	50.55 1.51 -0.39	47.55 1.63 -0.53	46.83 1.55 -0.95	43.49 1.16 -0.78
INDIAN POINT___3 23531	44.50 1.47 -0.89	38.67 1.29 -0.53	34.85 1.07 -0.29	32.92 0.92 -0.17	34.23 0.86 -0.24	36.69 0.99 -0.40	45.92 1.19 -0.60	49.41 1.24 -0.32	51.47 1.32 -1.16	48.54 1.38 -1.22	46.10 1.69 -0.99	45.32 1.79 -0.95	44.56 1.92 -0.93	47.23 1.95 -1.07	48.66 2.13 -1.14	50.54 2.35 -1.23	57.43 2.51 -1.40	68.23 2.78 -0.79	69.35 2.68 -1.38	60.26 2.13 -0.49	50.46 1.41 -0.40	47.48 1.54 -0.54	46.81 1.51 -0.97	43.81 1.45 -0.80
INGHAM_C_115KV_TB7 356103	42.48 0.29 -0.04	37.32 0.22 -0.24	33.99 0.13 -0.37	32.35 0.10 -0.43	33.37 0.07 -0.17	36.21 0.14 -0.76	45.29 0.35 -0.82	48.77 0.24 -0.68	49.76 0.15 -0.63	46.09 0.09 -0.06	43.50 0.09 0.00	42.80 0.17 -0.05	41.67 -0.04 0.00	44.34 -0.27 -0.39	45.39 -0.36 -0.38	46.84 -0.42 -0.30	53.85 -0.21 -0.55	64.34 -0.32 0.00	65.55 0.07 -0.19	58.37 0.17 -0.57	48.98 0.15 -0.18	46.03 0.45 -0.19	44.82 0.49 0.00	41.92 0.37 0.00
IP CORINTH___1 23988	42.21 0.80 0.73	37.19 0.77 0.44	33.99 0.74 0.24	32.38 0.70 0.14	33.73 0.80 0.20	35.72 0.74 0.33	44.59 0.97 0.50	48.78 1.20 0.26	48.91 0.88 0.96	45.52 0.60 1.01	42.99 0.39 0.82	42.05 0.26 0.78	41.02 0.08 0.77	43.51 0.18 0.88	44.66 0.23 0.95	46.33 0.38 1.01	53.21 0.86 1.16	67.25 1.36 -1.23	72.57 1.70 -5.58	62.50 1.38 -3.49	49.63 1.31 0.33	46.31 1.36 0.45	44.54 1.02 0.80	41.72 0.83 0.66
IP___TICONDEROGA 23804	43.87 2.49 0.75	38.65 2.25 0.45	35.32 2.08 0.24	33.65 1.97 0.15	35.12 2.19 0.20	37.23 2.26 0.34	46.65 3.04 0.51	51.03 3.45 0.27	50.89 2.89 0.99	47.24 2.34 1.04	44.44 1.87 0.84	43.39 1.62 0.81	42.13 1.21 0.79	44.77 1.46 0.90	45.86 1.45 0.97	47.66 1.74 1.04	54.94 2.62 1.19	69.90 3.88 -1.36	76.01 4.64 -6.08	65.33 3.92 -3.78	52.01 3.70 0.34	48.34 3.40 0.46	46.34 2.84 0.83	43.28 2.41 0.68
ISLIP_RES_REC 323679	44.64 1.60 -0.90	38.53 1.14 -0.54	34.51 0.74 -0.28	32.50 0.51 -0.17	33.77 0.40 -0.23	36.66 0.95 -0.40	45.39 0.66 -0.60	46.79 0.58 1.63	47.13 0.69 2.55	47.00 1.33 0.27	44.43 1.62 0.28	45.14 1.62 -0.95	44.52 1.88 -0.93	47.22 1.94 -1.07	48.76 2.22 -1.15	50.73 2.53 -1.23	57.94 2.99 -1.43	68.64 3.17 -0.81	69.83 3.13 -1.40	60.91 2.77 -0.51	50.55 1.51 -0.39	46.56 1.32 0.15	44.26 1.06 1.13	43.35 1.00 -0.80



JAMAICA__27_KV_LOAD 355505	45.14 2.11 -0.90	39.31 1.92 -0.54	35.39 1.61 -0.29	33.37 1.37 -0.18	34.63 1.26 -0.24	37.19 1.48 -0.40	46.50 1.76 -0.61	49.74 1.39 -0.51	51.91 1.47 -1.45	48.95 1.61 -1.41	46.94 2.52 -1.00	46.18 2.64 -0.96	45.44 2.79 -0.94	48.12 2.83 -1.08	49.54 3.00 -1.16	51.54 3.33 -1.24	58.57 3.64 -1.42	69.60 4.14 -0.80	70.74 4.05 -1.40	61.42 3.29 -0.50	51.19 2.14 -0.40	48.21 2.27 -0.55	47.66 2.35 -0.99	44.52 2.16 -0.81
JANIS__SOLAR 323808	45.91 1.98 -1.79	39.83 1.73 -1.24	36.03 1.64 -0.89	34.04 1.50 -0.72	35.71 1.59 -0.99	38.28 1.76 -1.21	49.68 2.56 -3.00	54.25 2.92 -3.48	54.12 2.59 -2.53	50.14 1.97 -2.22	46.91 1.52 -1.98	45.82 1.32 -1.92	44.78 1.17 -1.91	47.50 1.19 -2.09	48.83 1.27 -2.18	50.62 1.31 -2.34	58.27 1.82 -2.94	70.46 2.59 -3.21	72.88 3.39 -4.19	64.28 3.23 -3.42	53.87 2.72 -2.49	49.87 2.31 -2.16	48.74 2.35 -2.06	45.36 2.04 -1.78
JARVIS____ 23743	42.27 0.08 -0.04	37.17 0.07 -0.24	33.89 0.03 -0.37	32.29 0.03 -0.43	33.34 0.03 -0.17	36.10 0.04 -0.76	45.03 0.09 -0.82	48.63 0.10 -0.68	49.71 0.10 -0.63	46.04 0.05 -0.06	43.46 0.04 0.00	42.67 0.04 -0.05	41.75 0.04 0.00	44.65 0.04 -0.39	45.80 0.05 -0.38	47.36 0.09 -0.30	54.17 0.11 -0.55	64.79 0.13 0.00	65.61 0.13 -0.19	58.32 0.12 -0.57	48.93 0.10 -0.18	45.67 0.09 -0.19	44.42 0.09 0.00	41.55 0.00 0.00
JENNISON____1 23625	45.60 2.11 -1.35	39.63 1.84 -0.94	35.84 1.67 -0.67	33.93 1.56 -0.54	35.47 1.59 -0.74	37.99 1.77 -0.91	48.90 2.51 -2.27	53.25 2.78 -2.63	53.55 2.65 -1.91	49.91 2.30 -1.68	46.91 2.00 -1.49	45.95 1.92 -1.45	44.86 1.71 -1.44	47.52 1.72 -1.58	48.85 1.82 -1.65	50.52 1.78 -1.77	58.03 2.25 -2.27	69.93 2.78 -2.49	71.93 3.40 -3.24	63.51 3.23 -2.64	53.30 2.72 -1.93	49.47 2.41 -1.67	48.32 2.39 -1.59	44.80 1.87 -1.38
JENNISON____2 23626	45.60 2.11 -1.35	39.63 1.84 -0.94	35.84 1.67 -0.67	33.93 1.56 -0.54	35.47 1.59 -0.74	37.99 1.77 -0.91	48.90 2.51 -2.27	53.25 2.78 -2.63	53.55 2.65 -1.91	49.91 2.30 -1.68	46.91 2.00 -1.49	45.95 1.92 -1.45	44.86 1.71 -1.44	47.52 1.72 -1.58	48.85 1.82 -1.65	50.52 1.78 -1.77	58.03 2.25 -2.27	69.93 2.78 -2.49	71.93 3.40 -3.24	63.51 3.23 -2.64	53.30 2.72 -1.93	49.47 2.41 -1.67	48.32 2.39 -1.59	44.80 1.87 -1.38
JERICOHO_RISE_WT_PWR 323719	42.96 0.55 -0.27	38.76 0.37 -1.54	36.19 0.37 -2.33	34.90 0.35 -2.72	34.53 0.33 -1.07	40.54 0.43 -4.81	49.15 -0.13 -5.16	51.81 -0.33 -4.29	52.91 -0.05 -3.97	46.35 0.05 -0.37	43.37 -0.04 0.00	42.71 -0.17 -0.29	41.71 0.00 0.00	46.13 -0.58 -2.49	46.98 -0.77 -2.37	48.02 -0.84 -1.90	56.25 -0.75 -3.49	64.27 -0.39 0.00	66.41 -0.07 -1.19	61.39 0.17 -3.59	50.01 0.20 -1.16	46.81 0.23 -1.19	44.95 0.62 0.00	42.71 1.16 0.00
KATONAH__115KV_46KV_TB4 355592	44.72 1.69 -0.89	38.86 1.47 -0.53	34.99 1.21 -0.29	33.05 1.05 -0.17	34.40 1.03 -0.24	36.91 1.20 -0.40	46.14 1.41 -0.61	49.70 1.53 -0.32	51.82 1.67 -1.17	48.87 1.70 -1.23	46.41 2.00 -1.00	45.58 2.04 -0.96	44.73 2.09 -0.94	47.46 2.17 -1.07	48.90 2.36 -1.15	50.78 2.58 -1.24	57.76 2.84 -1.42	68.56 3.10 -0.80	69.69 3.00 -1.39	60.55 2.42 -0.50	50.75 1.70 -0.40	47.80 1.86 -0.55	47.04 1.73 -0.98	43.98 1.62 -0.81
KCE_NY_1 323755	42.54 1.18 0.78	37.46 1.07 0.47	34.21 0.97 0.25	32.60 0.92 0.15	33.92 0.99 0.21	35.98 1.02 0.35	44.96 1.37 0.53	49.15 1.58 0.28	49.34 1.37 1.02	46.01 1.15 1.08	43.50 0.95 0.87	42.55 0.81 0.83	41.56 0.67 0.82	44.16 0.88 0.94	45.24 0.86 1.01	46.97 1.08 1.08	53.77 1.50 1.24	68.21 2.01 -1.54	74.30 2.22 -6.78	63.73 1.90 -4.20	50.00 1.70 0.35	46.55 1.63 0.48	44.85 1.38 0.86	41.88 1.04 0.71
KCE_NY_6_ESR 323823	44.26 0.89 -1.24	38.52 0.81 -0.86	35.08 0.97 -0.62	33.37 1.05 -0.50	34.94 1.13 -0.68	37.27 1.13 -0.84	47.17 0.97 -2.08	51.31 1.05 -2.41	51.33 0.59 -1.75	48.31 0.83 -1.54	45.74 0.95 -1.37	44.97 1.06 -1.33	44.16 1.13 -1.32	46.86 1.19 -1.45	48.21 1.32 -1.51	49.15 0.57 -1.62	55.12 -0.54 -2.14	65.52 -1.48 -2.34	66.85 -1.50 -3.05	59.09 -1.04 -2.49	49.93 -0.53 -1.82	46.47 -0.50 -1.58	46.14 0.31 -1.50	44.05 1.21 -1.30
KEDC_PORT_JEFF_GT2 24210	44.30 1.26 -0.90	38.31 0.92 -0.54	34.31 0.53 -0.28	32.31 0.32 -0.17	33.60 0.23 -0.23	36.45 0.74 -0.40	45.12 0.40 -0.60	46.44 0.24 1.65	46.70 0.30 2.58	46.62 0.97 0.29	44.07 0.95 -0.95	44.76 1.24 -0.95	44.10 1.46 -0.93	46.74 1.46 -1.07	48.21 1.68 -1.15	50.08 1.88 -1.23	57.19 2.25 -1.43	67.41 1.94 -0.81	68.59 1.89 -1.40	60.10 1.96 -0.51	49.97 0.92 -0.39	46.09 0.86 0.16	43.93 0.75 1.15	43.05 0.71 -0.80
KEDC_PORT_JEFF_GT3 24211	44.30 1.26 -0.90	38.31 0.92 -0.54	34.31 0.53 -0.28	32.31 0.32 -0.17	33.60 0.23 -0.23	36.45 0.74 -0.40	45.12 0.40 -0.60	46.44 0.24 1.65	46.70 0.30 2.58	46.62 0.97 0.29	44.07 0.95 -0.95	44.76 1.24 -0.95	44.10 1.46 -0.93	46.74 1.46 -1.07	48.21 1.68 -1.15	50.08 1.88 -1.23	57.19 2.25 -1.43	67.41 1.94 -0.81	68.59 1.89 -1.40	60.10 1.96 -0.51	49.97 0.92 -0.39	46.09 0.86 0.16	43.93 0.75 1.15	43.05 0.71 -0.80
KEDC_GLWD_GT4 24219	44.81 1.77 -0.90	38.87 1.48 -0.54	34.95 1.17 -0.29	32.95 0.95 -0.17	34.27 0.89 -0.24	36.91 1.20 -0.40	45.96 1.23 -0.61	48.89 1.34 0.30	50.38 1.42 0.03	48.54 1.84 -0.77	45.98 2.00 -0.57	45.71 2.17 -0.95	44.90 2.25 -0.94	47.76 2.47 -1.07	48.90 2.36 -1.15	50.78 2.58 -1.24	57.75 2.78 -1.45	68.58 3.10 -0.82	69.71 3.01 -1.41	60.57 2.42 -0.51	50.56 1.51 -0.40	47.42 1.68 -0.34	46.24 1.64 -0.27	43.65 1.29 -0.81
KEDC_GLWD_GT5 24220	44.81 1.77 -0.90	38.87 1.48 -0.54	34.95 1.17 -0.29	32.95 0.95 -0.17	34.27 0.89 -0.24	36.91 1.20 -0.40	45.96 1.23 -0.61	48.89 1.34 0.30	50.38 1.42 0.03	48.54 1.84 -0.77	45.98 2.00 -0.57	45.71 2.17 -0.95	44.90 2.25 -0.94	47.76 2.47 -1.07	48.90 2.36 -1.15	50.78 2.58 -1.24	57.75 2.78 -1.45	68.58 3.10 -0.82	69.71 3.01 -1.41	60.57 2.42 -0.51	50.56 1.51 -0.40	47.42 1.68 -0.34	46.24 1.64 -0.27	43.65 1.29 -0.81
KENSICO____ 23655	44.72 1.69 -0.90	38.86 1.47 -0.54	34.99 1.21 -0.29	33.02 1.02 -0.18	34.34 0.96 -0.24	36.84 1.13 -0.40	46.05 1.32 -0.61	49.61 1.44 -0.32	51.68 1.52 -1.17	48.78 1.61 -1.24	46.33 1.91 -1.00	45.54 2.00 -0.96	44.82 2.17 -0.94	47.46 2.17 -1.08	48.90 2.36 -1.16	50.79 2.58 -1.24	57.71 2.78 -1.42	68.50 3.04 -0.80	69.63 2.94 -1.39	60.55 2.42 -0.50	50.66 1.61 -0.40	47.67 1.72 -0.55	47.00 1.68 -0.98	43.98 1.62 -0.81
KERHONKS_69_KV_TR1_REV_LBMP_G 345021	44.56 1.85 -0.56	38.78 1.58 -0.34	34.95 1.27 -0.18	33.08 1.15 -0.11	34.41 1.13 -0.15	36.83 1.27 -0.25	46.18 1.68 -0.38	49.78 1.72 -0.20	51.39 1.67 -0.74	48.28 1.56 -0.78	45.87 1.82 -0.63	44.93 1.75 -0.60	44.18 1.88 -0.59	46.88 1.99 -0.68	48.29 2.18 -0.73	50.33 2.58 -0.78	57.24 2.84 -0.89	68.59 3.43 -0.50	69.63 3.46 -0.88	60.83 2.88 -0.31	51.04 2.14 -0.25	47.96 2.22 -0.35	47.03 2.08 -0.62	43.97 1.91 -0.51



KLAC_JFK_GT1 23816	44.72 1.69 -0.90	39.09 1.70 -0.54	35.19 1.41 -0.29	33.15 1.15 -0.18	34.44 1.06 -0.24	36.98 1.27 -0.40	46.06 1.32 -0.61	49.22 0.86 -0.51	51.42 0.98 -1.45	48.49 1.15 -1.41	46.50 2.08 -1.00	45.75 2.21 -0.96	45.03 2.38 -0.94	47.64 2.34 -1.08	49.08 2.54 -1.16	51.02 2.82 -1.24	58.04 3.10 -1.42	68.89 3.43 -0.80	70.02 3.33 -1.40	60.78 2.65 -0.50	50.71 1.65 -0.40	47.76 1.82 -0.55	47.22 1.91 -0.99	44.11 1.75 -0.81
KIAC_JFK_GT2 23817	44.72 1.69 -0.90	39.09 1.70 -0.54	35.19 1.41 -0.29	33.15 1.15 -0.18	34.44 1.06 -0.24	36.98 1.27 -0.40	46.06 1.32 -0.61	49.22 0.86 -0.51	51.42 0.98 -1.45	48.49 1.15 -1.41	46.50 2.08 -1.00	45.75 2.21 -0.96	45.03 2.38 -0.94	47.64 2.34 -1.08	49.08 2.54 -1.16	51.02 2.82 -1.24	58.04 3.10 -1.42	68.89 3.43 -0.80	70.02 3.33 -1.40	60.78 2.65 -0.50	50.71 1.65 -0.40	47.76 1.82 -0.55	47.22 1.91 -0.99	44.11 1.75 -0.81
KIAC_JFK____ 323774	44.72 1.69 -0.90	39.09 1.70 -0.54	35.19 1.41 -0.29	33.14 1.14 -0.18	34.44 1.06 -0.24	36.98 1.27 -0.40	46.05 1.32 -0.61	49.31 0.96 -0.51	51.51 1.08 -1.45	48.81 1.47 -1.41	46.50 2.08 -1.00	45.71 2.17 -0.96	44.90 2.25 -0.94	47.72 2.43 -1.08	49.13 2.59 -1.16	51.07 2.87 -1.24	58.03 3.10 -1.42	68.95 3.49 -0.80	70.08 3.39 -1.40	60.78 2.65 -0.50	50.80 1.75 -0.40	47.80 1.86 -0.55	47.22 1.90 -0.99	43.73 1.37 -0.81
KINTIGH_24_KV_GSU 356498	43.57 0.30 -1.14	37.94 0.29 -0.79	34.60 0.53 -0.57	32.85 0.57 -0.46	34.42 0.66 -0.63	36.64 0.56 -0.77	46.21 0.18 -1.91	50.21 0.14 -2.22	50.31 -0.29 -1.61	47.35 0.00 -1.42	44.81 0.13 -1.26	44.10 0.30 -1.22	43.26 0.33 -1.22	45.90 0.35 -1.33	47.23 0.45 -1.39	48.22 -0.23 -1.49	54.17 -1.34 -2.00	64.52 -2.33 -2.18	65.79 -2.35 -2.85	58.11 -1.85 -2.32	49.08 -1.27 -1.69	45.82 -1.04 -1.47	45.37 -0.36 -1.40	43.38 0.62 -1.21
KINTIGH____ 23543	43.57 0.29 -1.14	37.94 0.29 -0.79	34.56 0.50 -0.57	32.85 0.57 -0.46	34.39 0.63 -0.63	36.64 0.56 -0.77	46.21 0.18 -1.91	49.97 -0.10 -2.22	50.11 -0.49 -1.61	47.31 -0.05 -1.42	44.80 0.13 -1.26	44.10 0.30 -1.22	43.17 0.25 -1.22	45.95 0.40 -1.33	47.27 0.50 -1.39	48.08 -0.38 -1.49	54.00 -1.44 -1.93	64.57 -2.20 -2.11	65.70 -2.35 -2.76	57.98 -1.90 -2.25	49.02 -1.26 -1.64	45.77 -1.04 -1.42	45.33 -0.35 -1.35	42.35 -0.37 -1.17
KNFTRNC_46_KV_46KV_LOAD 80397	43.52 1.22 -0.16	38.69 0.92 -0.91	35.78 0.90 -1.38	34.30 0.86 -1.62	34.63 0.86 -0.64	39.19 1.02 -2.86	47.37 0.18 -3.07	50.26 -0.14 -2.56	51.50 0.15 -2.36	46.39 0.23 -0.22	43.50 0.09 0.00	42.71 -0.04 -0.18	41.37 -0.33 0.00	45.70 0.00 -1.48	45.93 -0.86 -1.41	47.15 -0.94 -1.13	54.89 -0.70 -2.08	64.53 -0.13 0.00	66.26 0.26 -0.71	60.35 0.58 -2.14	49.93 0.58 -0.69	46.60 0.50 -0.71	44.86 0.53 0.00	42.76 1.20 0.00
LACHUTE__HYDRO 323717	43.87 2.49 0.75	38.65 2.25 0.45	35.32 2.08 0.24	33.65 1.97 0.15	35.12 2.19 0.20	37.23 2.26 0.34	46.65 3.04 0.51	51.12 3.54 0.27	50.89 2.89 0.99	47.24 2.34 1.04	44.44 1.87 0.84	43.39 1.62 0.81	42.13 1.21 0.79	44.95 1.64 0.90	45.86 1.45 0.97	47.66 1.74 1.04	54.94 2.62 1.19	69.90 3.88 -1.36	76.08 4.70 -6.08	65.34 3.92 -3.78	52.01 3.70 0.34	48.38 3.45 0.46	46.30 2.79 0.83	43.11 2.24 0.68
LAWRNCV_115KV_TB1 80681	45.47 0.88 -2.45	49.15 0.74 -11.56	51.42 0.67 -17.26	52.54 0.60 -20.11	41.84 0.63 -8.08	71.52 0.71 -35.51	83.48 0.79 -38.57	80.98 0.81 -32.32	79.58 0.88 -29.71	49.98 0.78 -3.26	44.57 0.65 -0.50	45.86 0.64 -2.65	42.73 0.54 -0.48	63.57 0.57 -18.78	63.75 0.45 -17.91	61.88 0.42 -14.49	80.37 0.54 -26.33	66.14 0.65 -0.83	75.72 0.65 -9.77	85.47 0.69 -27.15	58.51 0.68 -9.17	55.40 0.77 -9.24	45.66 0.80 -0.54	42.84 0.83 -0.46
LEDERLE____ 23769	44.72 1.73 -0.85	38.84 1.47 -0.51	35.01 1.24 -0.28	33.07 1.08 -0.17	34.39 1.03 -0.23	36.85 1.17 -0.38	46.15 1.46 -0.58	49.69 1.53 -0.31	51.72 1.62 -1.11	48.76 1.65 -1.17	46.32 1.95 -0.95	45.49 2.00 -0.91	44.72 2.13 -0.89	47.45 2.21 -1.02	48.88 2.41 -1.10	50.81 2.68 -1.17	57.69 2.84 -1.34	68.65 3.23 -0.76	69.75 3.13 -1.32	60.70 2.59 -0.47	50.78 1.75 -0.38	47.77 1.86 -0.52	47.03 1.77 -0.93	44.02 1.70 -0.77
LIGHTHSE_115KV_TB6 355974	45.96 0.29 -3.52	40.41 0.22 -3.34	36.91 0.20 -3.21	35.13 0.16 -3.15	35.85 0.17 -2.55	41.01 0.25 -5.45	53.68 0.53 -9.03	57.82 0.62 -9.35	56.84 0.49 -7.37	50.66 0.32 -4.40	47.20 0.09 -3.70	46.40 0.04 -3.78	45.27 0.00 -3.56	49.73 -0.04 -5.56	50.99 -0.05 -5.65	52.46 -0.14 -5.64	61.41 -0.05 -7.95	70.75 -0.06 -6.16	74.38 0.26 -8.82	66.96 0.40 -8.93	54.54 0.34 -5.55	50.69 0.36 -4.93	48.63 0.35 -3.95	45.04 0.08 -3.41
LINDEN COGEN____ 23786	35.59 1.77 8.32	29.91 1.55 8.49	24.61 1.27 10.15	33.05 1.05 -0.18	34.29 0.93 -0.23	36.76 1.06 -0.39	45.96 1.23 -0.60	48.03 1.43 1.25	48.27 1.52 2.24	47.21 1.70 0.43	46.41 2.00 -0.99	43.87 2.09 0.79	40.67 2.17 3.21	42.35 2.30 4.16	44.12 2.45 3.72	43.95 2.68 5.69	48.64 2.83 7.70	58.90 3.10 8.86	60.05 3.01 8.25	51.52 2.36 8.47	44.36 1.56 5.85	42.45 1.72 4.67	45.75 1.68 0.26	43.56 1.21 -0.80
LINDHRST_69_KV_BK1 356055	44.81 1.77 -0.90	38.75 1.36 -0.54	34.75 0.97 -0.28	32.72 0.73 -0.17	34.03 0.66 -0.24	36.87 1.17 -0.40	45.65 0.93 -0.61	47.36 0.86 1.36	47.88 0.93 2.03	46.94 1.06 0.05	44.86 1.56 0.12	45.27 1.75 -0.95	44.73 2.09 -0.93	47.32 2.03 -1.07	48.85 2.31 -1.15	50.83 2.63 -1.23	58.00 3.05 -1.44	68.83 3.36 -0.81	70.03 3.33 -1.41	60.97 2.82 -0.51	50.60 1.56 -0.40	46.84 1.50 0.05	44.75 1.29 0.86	43.81 1.45 -0.80
LIPA_MISC_IPP 23656	44.01 0.97 -0.90	38.05 0.66 -0.54	34.08 0.30 -0.28	32.06 0.06 -0.17	33.34 -0.03 -0.23	36.20 0.49 -0.40	44.81 0.09 -0.60	46.05 -0.14 1.66	46.30 -0.10 2.60	45.74 0.09 0.29	43.77 0.65 0.30	44.42 0.89 -0.95	43.93 1.29 -0.93	46.39 1.11 -1.07	47.89 1.36 -1.15	49.89 1.69 -1.23	57.03 2.09 -1.43	67.60 2.13 -0.81	68.85 2.15 -1.40	59.99 1.84 -0.51	49.63 0.58 -0.39	45.82 0.59 0.16	43.61 0.44 1.16	43.14 0.79 -0.80
LISF__SOLAR 323691	44.09 1.05 -0.90	38.09 0.70 -0.54	34.11 0.33 -0.28	32.09 0.10 -0.17	33.37 0.00 -0.23	36.24 0.53 -0.40	44.86 0.13 -0.60	46.20 0.00 1.66	46.45 0.05 2.59	46.38 0.73 0.29	43.81 0.69 0.30	44.55 1.02 -0.95	43.89 1.25 -0.93	46.56 1.28 -1.07	48.03 1.50 -1.15	49.98 1.78 -1.23	57.14 2.19 -1.43	67.86 2.39 -0.81	69.05 2.35 -1.40	60.16 2.02 -0.51	49.92 0.88 -0.39	45.95 0.72 0.16	43.71 0.53 1.15	42.89 0.54 -0.80
LITTLE FALLS__HYD 24013	42.48 0.29 -0.04	37.32 0.22 -0.24	33.99 0.13 -0.37	32.35 0.10 -0.43	33.37 0.07 -0.17	36.21 0.14 -0.76	45.29 0.35 -0.82	48.77 0.24 -0.68	49.76 0.15 -0.63	46.09 0.09 -0.06	43.50 0.09 0.00	42.80 0.17 -0.05	41.67 -0.04 0.00	44.34 -0.27 -0.39	45.39 -0.36 -0.38	46.84 -0.42 -0.30	53.85 -0.21 -0.55	64.34 -0.32 0.00	65.55 0.07 -0.19	58.37 0.17 -0.57	48.98 0.15 -0.18	46.03 0.45 -0.19	44.82 0.49 0.00	41.92 0.37 0.00



LITTLRIV_115KV_TB1 356100	45.87 1.35 -2.39	49.08 1.14 -11.08	51.01 1.00 -16.51	51.98 0.92 -19.23	41.84 0.96 -7.74	70.35 1.09 -33.95	82.37 1.32 -36.93	80.21 1.39 -30.97	78.81 1.37 -28.45	50.27 1.15 -3.18	44.90 0.96 -0.53	46.01 0.85 -2.58	42.97 0.75 -0.51	62.96 0.75 -18.00	63.23 0.68 -17.17	61.58 0.70 -13.91	79.71 0.96 -25.23	66.78 1.23 -0.89	76.25 1.50 -9.45	85.16 1.50 -26.03	58.85 1.36 -8.84	55.60 1.32 -8.89	46.23 1.33 -0.57	43.29 1.25 -0.49
LI_NEWBRDGE___DRP 323616	44.22 1.18 -0.90	38.31 0.92 -0.54	34.38 0.60 -0.28	32.44 0.45 -0.17	33.70 0.33 -0.23	36.41 0.71 -0.40	45.17 0.44 -0.60	46.41 0.38 1.82	46.53 0.44 2.90	46.16 0.64 0.42	44.10 1.09 0.40	44.80 1.28 -0.95	44.14 1.50 -0.93	46.74 1.46 -1.07	48.21 1.68 -1.15	50.12 1.93 -1.23	57.08 2.14 -1.43	67.79 2.33 -0.81	68.92 2.22 -1.40	59.98 1.84 -0.51	49.87 0.83 -0.39	46.07 0.91 0.23	43.81 0.80 1.32	43.23 0.87 -0.80
LOCKPORT_115KV_TB60_63_64 80432	43.68 0.34 -1.20	38.06 0.37 -0.83	34.73 0.64 -0.60	33.01 0.70 -0.48	34.59 0.80 -0.66	36.83 0.71 -0.81	46.44 0.31 -2.02	50.14 -0.05 -2.34	50.15 -0.54 -1.70	47.48 0.05 -1.49	45.00 0.26 -1.33	44.29 0.43 -1.29	43.32 0.33 -1.28	46.11 0.49 -1.41	47.44 0.59 -1.47	48.11 -0.42 -1.57	53.84 -1.71 -2.04	64.30 -2.59 -2.23	65.46 -2.74 -2.91	57.76 -2.25 -2.37	48.97 -1.41 -1.73	45.62 -1.27 -1.50	45.40 -0.35 -1.43	42.37 -0.42 -1.23
LOCKPORT___CC1 323769	43.72 0.38 -1.20	38.10 0.41 -0.84	34.73 0.63 -0.60	33.01 0.70 -0.48	34.59 0.79 -0.66	36.83 0.71 -0.82	46.45 0.31 -2.02	50.44 0.24 -2.34	50.45 -0.24 -1.71	47.53 0.09 -1.50	45.01 0.26 -1.33	44.30 0.43 -1.29	43.45 0.46 -1.29	46.11 0.49 -1.41	47.44 0.59 -1.47	48.26 -0.28 -1.58	54.06 -1.55 -2.10	64.24 -2.71 -2.30	65.55 -2.74 -2.99	58.00 -2.07 -2.44	49.02 -1.41 -1.78	45.71 -1.22 -1.55	45.44 -0.36 -1.47	43.57 0.75 -1.27
LOCKPORT___CC2 323770	43.72 0.38 -1.20	38.10 0.41 -0.84	34.73 0.63 -0.60	33.01 0.70 -0.48	34.59 0.79 -0.66	36.83 0.71 -0.82	46.45 0.31 -2.02	50.44 0.24 -2.34	50.45 -0.24 -1.71	47.53 0.09 -1.50	45.01 0.26 -1.33	44.30 0.43 -1.29	43.45 0.46 -1.29	46.11 0.49 -1.41	47.44 0.59 -1.47	48.26 -0.28 -1.58	54.06 -1.55 -2.10	64.24 -2.71 -2.30	65.55 -2.74 -2.99	58.00 -2.07 -2.44	49.02 -1.41 -1.78	45.71 -1.22 -1.55	45.44 -0.36 -1.47	43.57 0.75 -1.27
LOCKPORT___CC3 323771	43.72 0.38 -1.20	38.10 0.41 -0.84	34.73 0.63 -0.60	33.01 0.70 -0.48	34.59 0.79 -0.66	36.83 0.71 -0.82	46.45 0.31 -2.02	50.44 0.24 -2.34	50.45 -0.24 -1.71	47.53 0.09 -1.50	45.01 0.26 -1.33	44.30 0.43 -1.29	43.45 0.46 -1.29	46.11 0.49 -1.41	47.44 0.59 -1.47	48.26 -0.28 -1.58	54.06 -1.55 -2.10	64.24 -2.71 -2.30	65.55 -2.74 -2.99	58.00 -2.07 -2.44	49.02 -1.41 -1.78	45.71 -1.22 -1.55	45.44 -0.36 -1.47	43.57 0.75 -1.27
LOCUSVLY_69_KV_BK2 55797	44.72 1.69 -0.90	38.75 1.36 -0.54	34.82 1.04 -0.29	32.82 0.83 -0.17	34.13 0.76 -0.24	36.84 1.13 -0.40	45.70 0.97 -0.61	48.16 0.96 0.65	49.37 1.08 0.70	47.67 1.24 -0.49	45.49 1.74 -0.34	45.45 1.92 -0.95	44.81 2.17 -0.94	47.45 2.17 -1.07	48.85 2.31 -1.15	50.83 2.63 -1.24	57.85 2.89 -1.45	68.71 3.23 -0.81	69.77 3.07 -1.41	60.68 2.54 -0.51	50.51 1.46 -0.40	47.07 1.45 -0.23	45.60 1.37 0.11	43.77 1.41 -0.81
LONG_LAKE_PHOENIX 24014	43.80 -0.21 -1.88	38.20 -0.22 -1.56	34.72 -0.13 -1.37	32.93 -0.16 -1.26	34.25 -0.10 -1.21	37.38 -0.11 -2.18	48.15 -0.04 -4.07	52.29 0.05 -4.39	52.30 -0.05 -3.36	48.18 -0.09 -2.34	45.34 -0.09 -2.02	44.46 -0.13 -2.01	43.57 -0.08 -1.94	46.75 -0.09 -2.62	47.98 -0.09 -2.69	49.54 -0.19 -2.76	57.11 -0.16 -3.76	67.89 -0.13 -3.36	69.84 0.00 -4.62	61.91 0.00 -4.27	51.48 0.00 -2.83	47.79 -0.09 -2.49	46.48 0.00 -2.15	43.24 -0.17 -1.86
LOVETT___3 23632	44.52 1.52 -0.86	38.69 1.33 -0.51	34.84 1.07 -0.28	32.92 0.92 -0.17	34.23 0.86 -0.23	36.68 0.99 -0.38	45.90 1.19 -0.59	49.40 1.24 -0.31	51.44 1.32 -1.12	48.55 1.42 -1.19	46.07 1.69 -0.96	45.29 1.79 -0.92	44.57 1.96 -0.90	47.24 1.99 -1.03	48.67 2.18 -1.11	50.55 2.40 -1.19	57.44 2.57 -1.36	68.27 2.84 -0.77	69.37 2.74 -1.34	60.30 2.19 -0.48	50.45 1.41 -0.38	47.51 1.59 -0.53	46.78 1.51 -0.94	43.78 1.45 -0.78
LOVETT___4 23642	44.52 1.52 -0.86	38.69 1.33 -0.51	34.84 1.07 -0.28	32.92 0.92 -0.17	34.23 0.86 -0.23	36.68 0.99 -0.38	45.90 1.19 -0.59	49.40 1.24 -0.31	51.44 1.32 -1.12	48.55 1.42 -1.19	46.07 1.69 -0.96	45.29 1.79 -0.92	44.57 1.96 -0.90	47.24 1.99 -1.03	48.67 2.18 -1.11	50.55 2.40 -1.19	57.44 2.57 -1.36	68.27 2.84 -0.77	69.37 2.74 -1.34	60.30 2.19 -0.48	50.45 1.41 -0.38	47.51 1.59 -0.53	46.78 1.51 -0.94	43.78 1.45 -0.78
LOVETT___5 23593	44.52 1.52 -0.86	38.69 1.33 -0.51	34.84 1.07 -0.28	32.92 0.92 -0.17	34.23 0.86 -0.23	36.68 0.99 -0.38	45.90 1.19 -0.59	49.40 1.24 -0.31	51.44 1.32 -1.12	48.55 1.42 -1.19	46.07 1.69 -0.96	45.29 1.79 -0.92	44.57 1.96 -0.90	47.24 1.99 -1.03	48.67 2.18 -1.11	50.55 2.40 -1.19	57.44 2.57 -1.36	68.27 2.84 -0.77	69.37 2.74 -1.34	60.30 2.19 -0.48	50.45 1.41 -0.38	47.51 1.59 -0.53	46.78 1.51 -0.94	43.78 1.45 -0.78
LOWER RAQUET___HYD 24057	45.40 0.93 -2.33	48.29 0.81 -10.62	50.00 0.70 -15.81	50.86 0.64 -18.40	41.23 0.66 -7.43	68.57 0.78 -32.49	80.38 0.88 -35.38	78.46 0.91 -29.70	77.23 0.98 -27.26	49.91 0.87 -3.10	44.67 0.69 -0.56	45.74 0.64 -2.52	42.88 0.63 -0.54	61.96 0.49 -17.26	62.31 0.45 -16.48	60.75 0.42 -13.36	78.25 0.54 -24.20	66.18 0.58 -0.94	75.10 0.65 -9.15	83.30 0.69 -24.98	57.85 0.68 -8.52	54.77 0.82 -8.56	45.90 0.97 -0.60	43.07 1.00 -0.52
LOWER___HUDSON 24059	41.79 0.67 1.02	36.87 0.63 0.61	33.70 0.53 0.33	32.13 0.51 0.20	33.39 0.53 0.27	35.41 0.56 0.46	44.22 0.79 0.69	48.39 0.91 0.37	48.49 0.83 1.33	45.22 0.69 1.40	42.88 0.61 1.14	42.04 0.55 1.09	41.14 0.50 1.07	43.61 0.62 1.22	44.75 0.68 1.31	46.40 0.85 1.41	53.02 1.13 1.61	69.80 1.42 -3.72	81.67 1.43 -14.95	67.79 1.15 -9.01	49.17 0.97 0.46	45.77 1.00 0.62	43.96 0.75 1.12	41.13 0.50 0.92
LOWVILLE_115KV_TB2 356335	45.22 1.43 -1.65	41.82 1.25 -3.71	39.46 0.97 -5.00	38.26 0.80 -5.64	36.56 0.76 -2.66	46.18 0.95 -9.92	57.35 1.50 -11.73	59.90 1.67 -10.38	59.67 1.52 -9.16	49.15 1.10 -2.11	45.01 0.35 -1.25	44.65 0.30 -1.78	43.04 0.13 -1.21	50.37 0.09 -6.07	51.32 0.05 -5.90	52.11 0.05 -5.10	62.50 0.43 -8.56	67.33 0.58 -2.09	71.51 1.24 -4.98	68.01 1.33 -9.05	53.60 1.12 -3.84	50.10 1.04 -3.66	46.55 0.89 -1.34	43.29 0.58 -1.15
LUTHERFT_115KV_GLOB_FND_222 355753	42.54 1.18 0.78	37.46 1.07 0.47	34.21 0.97 0.25	32.59 0.92 0.15	33.88 0.96 0.21	35.98 1.02 0.35	44.96 1.37 0.53	49.10 1.53 0.28	49.34 1.37 1.02	45.96 1.10 1.08	43.45 0.91 0.87	42.55 0.81 0.83	41.56 0.67 0.82	44.07 0.80 0.94	45.24 0.86 1.01	46.92 1.03 1.08	53.72 1.44 1.24	68.14 1.94 -1.54	74.23 2.15 -6.78	63.68 1.84 -4.20	49.95 1.65 0.35	46.50 1.59 0.48	44.85 1.37 0.86	42.05 1.20 0.71



LUTHERNY_35_KV_BK2 355980	42.54 1.18 0.78	37.46 1.07 0.47	34.21 0.97 0.25	32.59 0.92 0.15	33.92 0.99 0.21	35.98 1.02 0.35	44.96 1.37 0.53	49.15 1.58 0.28	49.34 1.37 1.02	45.96 1.10 1.08	43.50 0.96 0.87	42.55 0.81 0.83	41.60 0.71 0.82	44.07 0.80 0.94	45.24 0.86 1.01	46.97 1.08 1.08	53.77 1.50 1.24	68.21 2.00 -1.54	74.30 2.22 -6.78	63.73 1.90 -4.20	49.95 1.65 0.35	46.55 1.63 0.48	44.85 1.37 0.86	42.09 1.25 0.71
LWR___OSWEGATCHIE_HYD 23850	45.50 1.18 -2.18	45.51 1.03 -7.62	45.35 0.84 -11.02	45.28 0.73 -12.72	39.23 0.73 -5.37	58.63 0.88 -22.44	70.36 1.24 -25.00	70.50 1.34 -21.31	69.60 1.27 -19.34	49.80 1.01 -2.85	45.03 0.56 -1.05	45.45 0.51 -2.36	43.10 0.38 -1.01	56.98 0.35 -12.41	57.56 0.27 -11.91	57.00 0.19 -9.85	71.37 0.43 -17.43	66.93 0.52 -1.75	73.87 0.91 -7.66	76.79 1.04 -18.12	56.21 0.92 -6.64	52.94 1.00 -6.55	46.43 0.98 -1.12	43.27 0.75 -0.97
LYONS_FALL_HYD 23570	44.64 1.26 -1.24	40.49 1.07 -2.57	37.76 0.87 -3.40	36.40 0.76 -3.81	35.71 0.73 -1.85	42.89 0.88 -6.70	53.58 1.41 -8.05	56.61 1.58 -7.18	56.75 1.47 -6.30	48.61 1.10 -1.58	44.96 0.56 -0.99	44.46 0.55 -1.33	43.03 0.37 -0.95	48.77 0.35 -4.20	49.80 0.32 -4.10	50.87 0.33 -3.58	60.13 0.69 -5.93	67.20 0.90 -1.64	70.31 1.37 -3.64	65.36 1.44 -6.29	52.61 1.22 -2.75	49.09 1.09 -2.61	46.35 0.97 -1.05	43.16 0.71 -0.91
MADISON___COUNTY_LFGE 323628	44.52 1.14 -1.24	39.25 1.00 -1.40	35.89 0.90 -1.50	34.20 0.83 -1.55	35.05 0.86 -1.05	38.99 0.99 -2.69	49.59 1.50 -3.97	53.45 1.67 -3.93	53.75 1.57 -3.20	48.78 1.29 -1.56	45.71 1.04 -1.25	44.89 0.98 -1.33	43.79 0.88 -1.21	47.42 0.88 -2.33	48.58 0.86 -2.33	50.10 0.89 -2.25	58.05 1.23 -3.31	68.24 1.49 -2.09	70.39 1.89 -3.20	63.14 1.84 -3.66	52.25 1.51 -2.09	48.59 1.32 -1.88	46.91 1.24 -1.34	43.62 0.91 -1.16
MALONE___115KV_TB1 356076	43.85 1.05 -0.66	41.43 0.85 -3.73	39.94 0.80 -5.65	39.20 0.76 -6.61	36.49 0.76 -2.60	47.90 0.92 -11.67	57.32 0.66 -12.54	58.85 0.57 -10.42	59.46 0.83 -9.64	47.71 0.87 -0.90	44.11 0.69 0.00	43.89 0.60 -0.72	42.08 0.38 0.00	50.75 0.49 -6.05	51.18 0.05 -5.76	51.62 0.05 -4.61	62.25 0.27 -8.48	65.43 0.78 0.00	69.22 1.04 -2.88	67.55 1.21 -8.71	52.55 1.07 -2.83	49.22 0.95 -2.88	45.26 0.93 0.00	42.76 1.20 0.00
MAPLEWOD_115KV_TB3 80458	41.67 0.21 0.68	36.67 0.22 0.41	33.44 0.17 0.22	31.85 0.16 0.13	33.15 0.20 0.18	35.21 0.21 0.31	43.96 0.31 0.47	48.04 0.43 0.25	48.49 0.39 0.89	45.22 0.23 0.94	42.78 0.13 0.76	41.93 0.09 0.73	41.08 0.08 0.72	43.48 0.09 0.82	44.68 0.18 0.88	46.35 0.33 0.94	52.91 0.48 1.08	62.05 0.58 3.19	55.60 0.59 10.28	52.32 0.40 5.72	48.68 0.34 0.31	45.38 0.41 0.42	43.84 0.27 0.75	41.26 0.33 0.62
MAPLE_RIDGE_WT_1 323574	41.88 -0.21 0.05	36.41 -0.18 0.26	32.93 -0.17 0.40	31.20 -0.16 0.46	32.79 -0.16 0.18	34.35 -0.14 0.82	43.02 -0.22 0.88	46.88 -0.24 0.73	48.12 -0.20 0.68	45.74 -0.14 0.06	43.28 -0.13 0.00	42.36 -0.17 0.05	41.46 -0.25 0.00	43.44 -0.36 0.42	44.57 -0.41 0.40	46.22 -0.42 0.32	52.49 -0.43 0.59	64.27 -0.39 0.00	64.77 -0.32 0.20	56.74 -0.29 0.61	48.16 -0.29 0.20	44.92 -0.27 0.20	44.15 -0.18 0.00	41.47 -0.08 0.00
MAPLE_RIDGE_WT_2 323611	41.88 -0.21 0.05	36.41 -0.18 0.26	32.93 -0.17 0.40	31.20 -0.16 0.46	32.79 -0.16 0.18	34.35 -0.14 0.82	43.02 -0.22 0.88	46.88 -0.24 0.73	48.12 -0.20 0.68	45.74 -0.14 0.06	43.28 -0.13 0.00	42.36 -0.17 0.05	41.46 -0.25 0.00	43.44 -0.36 0.42	44.57 -0.41 0.40	46.22 -0.42 0.32	52.49 -0.43 0.59	64.27 -0.39 0.00	64.77 -0.32 0.20	56.74 -0.29 0.61	48.16 -0.29 0.20	44.92 -0.27 0.20	44.15 -0.18 0.00	41.47 -0.08 0.00
MARBLE_RIVER_WT_PWR 323696	43.12 0.84 -0.14	38.22 0.59 -0.78	35.28 0.60 -1.18	33.78 0.57 -1.38	34.27 0.60 -0.54	38.49 0.74 -2.44	46.39 -0.35 -2.63	49.27 -0.77 -2.18	50.52 -0.49 -2.02	45.81 -0.32 -0.19	43.02 -0.39 0.00	42.18 -0.55 -0.15	41.54 -0.17 0.00	44.29 -1.19 -1.27	45.00 -1.59 -1.21	46.24 -1.69 -0.97	53.68 -1.60 -1.78	63.50 -1.16 0.00	65.18 -0.72 -0.60	59.17 -0.29 -1.82	49.14 -0.10 -0.59	45.99 0.00 -0.60	45.17 0.84 0.00	43.46 1.91 0.00
MARSHVLE_115KV_TB1 80742	43.99 2.28 0.42	38.63 2.03 0.25	35.16 1.81 0.14	33.46 1.72 0.08	34.88 1.86 0.11	37.17 2.05 0.19	46.66 2.82 0.29	50.81 3.11 0.15	50.84 2.40 0.55	46.87 1.52 0.58	43.81 0.87 0.47	42.68 0.55 0.45	41.60 0.33 0.44	44.10 0.40 0.51	45.38 0.54 0.54	47.27 0.89 0.58	54.18 1.34 0.67	66.93 2.65 0.38	68.49 3.85 0.66	60.92 3.52 0.23	51.57 3.11 0.19	48.17 3.04 0.26	46.57 2.70 0.46	43.41 2.24 0.38
MARSH_HILL_WT_PWR 323713	45.10 1.35 -1.61	39.18 1.21 -1.12	35.64 1.34 -0.80	33.81 1.34 -0.65	35.55 1.52 -0.89	38.02 1.62 -1.09	48.67 1.85 -2.70	53.04 2.06 -3.13	52.88 1.61 -2.28	49.27 1.33 -2.00	46.37 1.17 -1.78	45.37 1.06 -1.73	44.59 1.17 -1.72	47.42 1.33 -1.88	48.80 1.45 -1.97	50.20 1.13 -2.11	56.54 0.54 -2.49	67.90 0.51 -2.73	69.83 0.98 -3.55	61.80 1.27 -2.90	51.98 1.22 -2.11	48.22 1.00 -1.83	47.58 1.51 -1.75	44.88 1.83 -1.51
MCINTYRE_115KV_TB2 80467	46.09 1.47 -2.48	49.92 1.25 -11.81	52.27 1.14 -17.64	53.43 1.05 -20.56	42.44 1.06 -8.25	72.81 1.20 -36.30	85.03 1.50 -39.41	82.39 1.53 -33.01	80.81 1.47 -30.35	50.39 1.15 -3.31	44.85 0.96 -0.48	46.15 0.89 -2.68	42.93 0.75 -0.47	64.19 0.80 -19.18	64.40 0.73 -18.29	62.55 0.80 -14.79	81.57 1.18 -26.88	67.08 1.62 -0.81	77.25 2.02 -9.93	87.31 1.96 -27.72	59.70 1.70 -9.35	56.36 1.54 -9.42	46.35 1.51 -0.52	43.37 1.37 -0.45
MECO_____69_KV_BK1 80468	44.15 2.49 0.47	38.78 2.21 0.28	35.31 1.98 0.15	33.61 1.88 0.09	35.03 2.02 0.13	37.36 2.26 0.21	46.89 3.09 0.32	51.03 3.35 0.17	51.02 2.65 0.62	47.03 1.75 0.65	43.89 1.00 0.53	42.71 0.64 0.50	41.55 0.33 0.49	44.05 0.40 0.57	45.32 0.54 0.61	47.34 1.03 0.65	54.58 1.82 0.75	67.60 3.36 0.42	69.00 4.44 0.73	61.29 3.92 0.26	51.99 3.55 0.21	48.42 3.31 0.29	46.74 2.93 0.52	43.62 2.49 0.43
MENANDS___115KV_TB5 355628	41.42 -0.04 0.68	36.45 0.00 0.41	33.24 -0.03 0.22	31.66 -0.03 0.13	32.95 0.00 0.18	35.00 0.00 0.30	43.66 0.00 0.46	47.70 0.10 0.24	48.20 0.10 0.89	44.95 -0.05 0.94	42.52 -0.13 0.76	41.72 -0.13 0.73	40.87 -0.13 0.71	43.26 -0.13 0.82	44.46 -0.05 0.88	46.12 0.09 0.94	52.59 0.16 1.08	61.57 0.13 3.22	54.96 0.07 10.40	51.85 0.00 5.78	48.34 0.00 0.30	45.07 0.09 0.42	43.54 -0.04 0.75	41.02 0.08 0.62
MG INDUSTRY___DRP 24185	42.16 0.38 0.36	37.01 0.37 0.22	33.71 0.33 0.12	32.07 0.32 0.07	33.37 0.33 0.10	35.50 0.35 0.16	44.27 0.40 0.25	50.40 2.68 0.13	50.33 1.81 0.47	46.22 0.78 0.50	43.01 0.00 0.40	41.77 -0.43 0.39	40.66 -0.67 0.38	43.25 -0.53 0.43	44.46 -0.45 0.46	46.51 0.05 0.50	53.10 0.16 0.57	63.21 0.32 1.78	59.87 0.33 5.75	54.66 0.23 3.21	48.73 0.24 0.16	45.49 0.32 0.22	44.15 0.22 0.40	41.72 0.50 0.33



MID___OSWEGATCHIE_HYD 23849	45.50 1.18 -2.18	45.51 1.03 -7.62	45.35 0.84 -11.02	45.28 0.73 -12.72	39.23 0.73 -5.37	58.63 0.88 -22.44	70.36 1.24 -25.00	70.50 1.34 -21.31	69.60 1.27 -19.34	49.80 1.01 -2.85	45.03 0.56 -1.05	45.45 0.51 -2.36	43.10 0.38 -1.01	56.98 0.35 -12.41	57.56 0.27 -11.91	57.00 0.19 -9.85	71.37 0.43 -17.43	66.93 0.52 -1.75	73.87 0.91 -7.66	76.79 1.04 -18.12	56.21 0.92 -6.64	52.94 1.00 -6.55	46.43 0.98 -1.12	43.27 0.75 -0.97
MID___RAQUETTE_HYD 23851	45.40 0.93 -2.33	48.29 0.81 -10.62	50.00 0.70 -15.81	50.86 0.64 -18.40	41.23 0.66 -7.43	68.58 0.78 -32.49	80.39 0.88 -35.38	78.46 0.91 -29.70	77.23 0.98 -27.26	49.91 0.87 -3.10	44.67 0.69 -0.56	45.74 0.64 -2.52	42.80 0.54 -0.54	62.05 0.57 -17.26	62.31 0.45 -16.48	60.75 0.42 -13.36	78.25 0.54 -24.20	66.18 0.58 -0.94	75.10 0.65 -9.15	83.30 0.69 -24.98	57.90 0.73 -8.52	54.77 0.82 -8.56	45.82 0.89 -0.60	42.94 0.87 -0.52
MILLIKEN___1 23584	45.33 0.97 -2.23	39.24 0.85 -1.54	35.44 0.84 -1.11	33.48 0.76 -0.89	35.22 0.86 -1.23	37.73 0.92 -1.51	49.13 1.28 -3.74	53.62 1.44 -4.33	53.46 1.32 -3.15	49.81 1.10 -2.77	46.83 0.96 -2.46	45.86 0.89 -2.39	44.96 0.88 -2.37	47.79 0.97 -2.60	49.10 1.00 -2.72	50.82 0.94 -2.92	58.27 1.02 -3.75	70.11 1.36 -4.10	72.27 1.63 -5.34	63.49 1.50 -4.36	53.09 1.26 -3.18	49.19 1.04 -2.76	48.11 1.15 -2.63	44.69 0.87 -2.27
MILLIKEN___2 23585	45.33 0.97 -2.23	39.24 0.85 -1.54	35.44 0.84 -1.11	33.48 0.76 -0.89	35.22 0.86 -1.23	37.73 0.92 -1.51	49.13 1.28 -3.74	53.62 1.44 -4.33	53.46 1.32 -3.15	49.81 1.10 -2.77	46.83 0.96 -2.46	45.86 0.89 -2.39	44.96 0.88 -2.37	47.79 0.97 -2.60	49.10 1.00 -2.72	50.82 0.94 -2.92	58.27 1.02 -3.75	70.11 1.36 -4.10	72.27 1.63 -5.34	63.49 1.50 -4.36	53.09 1.26 -3.18	49.19 1.04 -2.76	48.11 1.15 -2.63	44.69 0.87 -2.27
MILLIKEN___DIESEL 23629	45.33 0.97 -2.23	39.24 0.85 -1.54	35.44 0.84 -1.11	33.48 0.76 -0.89	35.22 0.86 -1.23	37.73 0.92 -1.51	49.13 1.28 -3.74	53.62 1.44 -4.33	53.46 1.32 -3.15	49.81 1.10 -2.77	46.83 0.96 -2.46	45.86 0.89 -2.39	44.96 0.88 -2.37	47.79 0.97 -2.60	49.10 1.00 -2.72	50.82 0.94 -2.92	58.27 1.02 -3.75	70.11 1.36 -4.10	72.27 1.63 -5.34	63.49 1.50 -4.36	53.09 1.26 -3.18	49.19 1.04 -2.76	48.11 1.15 -2.63	44.69 0.87 -2.27
MILLSEAT___LFGE 323607	44.51 1.18 -1.19	38.75 1.07 -0.83	35.29 1.20 -0.60	33.54 1.24 -0.48	35.18 1.39 -0.66	37.46 1.34 -0.81	47.49 1.37 -2.00	51.70 1.53 -2.32	51.80 1.13 -1.69	48.70 1.28 -1.48	46.03 1.30 -1.32	45.22 1.36 -1.28	44.31 1.33 -1.27	47.07 1.46 -1.40	48.38 1.54 -1.46	49.42 0.89 -1.56	55.60 0.00 -2.09	66.36 -0.58 -2.29	67.75 -0.52 -2.98	60.01 -0.06 -2.43	50.57 0.15 -1.77	47.07 0.14 -1.54	46.55 0.75 -1.47	44.43 1.62 -1.27
MILLWOOD_138_KV_38W41_REV_LBMP_H 345005	44.59 1.56 -0.89	38.75 1.36 -0.53	34.92 1.14 -0.29	32.95 0.95 -0.17	34.27 0.89 -0.24	36.77 1.06 -0.40	45.96 1.24 -0.61	49.51 1.34 -0.32	51.58 1.42 -1.17	48.64 1.47 -1.23	46.19 1.78 -1.00	45.41 1.87 -0.96	44.65 2.00 -0.94	47.32 2.03 -1.07	48.76 2.22 -1.15	50.64 2.44 -1.23	57.55 2.62 -1.41	68.36 2.91 -0.80	69.49 2.81 -1.39	60.38 2.25 -0.50	50.56 1.51 -0.40	47.57 1.63 -0.55	46.86 1.55 -0.98	43.90 1.54 -0.81
MILLWOOD_13_KV_LOAD 356217	44.72 1.69 -0.89	38.86 1.47 -0.53	34.99 1.21 -0.29	33.02 1.02 -0.17	34.37 0.99 -0.24	36.84 1.13 -0.40	46.05 1.32 -0.61	49.61 1.44 -0.32	51.68 1.52 -1.17	48.78 1.61 -1.23	46.32 1.91 -1.00	45.54 2.00 -0.96	44.73 2.09 -0.94	47.45 2.17 -1.07	48.85 2.31 -1.15	50.78 2.58 -1.23	57.71 2.78 -1.41	68.49 3.04 -0.80	69.62 2.94 -1.39	60.55 2.42 -0.50	50.65 1.61 -0.40	47.71 1.77 -0.55	46.99 1.68 -0.98	43.98 1.62 -0.81
MODEL_CITY_ENERGY 24167	43.30 -0.04 -1.20	37.73 0.04 -0.83	34.43 0.33 -0.60	32.72 0.41 -0.48	34.29 0.50 -0.66	36.47 0.35 -0.81	46.01 -0.13 -2.02	49.91 -0.29 -2.34	49.91 -0.79 -1.70	47.06 -0.37 -1.50	44.57 -0.17 -1.33	43.87 0.00 -1.29	43.03 0.04 -1.28	45.67 0.04 -1.41	46.99 0.14 -1.47	47.74 -0.80 -1.58	53.46 -2.14 -2.10	63.52 -3.43 -2.29	64.76 -3.53 -2.99	57.31 -2.77 -2.44	48.48 -1.95 -1.78	45.21 -1.72 -1.54	45.00 -0.80 -1.47	43.15 0.33 -1.27
MODERN_LFGE___ 323580	43.30 -0.04 -1.20	37.73 0.04 -0.83	34.43 0.33 -0.60	32.72 0.41 -0.48	34.29 0.50 -0.66	36.47 0.35 -0.81	46.01 -0.13 -2.02	49.91 -0.29 -2.34	49.91 -0.79 -1.70	47.06 -0.37 -1.50	44.57 -0.17 -1.33	43.87 0.00 -1.29	43.03 0.04 -1.28	45.67 0.04 -1.41	46.99 0.14 -1.47	47.74 -0.80 -1.58	53.46 -2.14 -2.10	63.52 -3.43 -2.29	64.76 -3.53 -2.99	57.31 -2.77 -2.44	48.48 -1.95 -1.78	45.21 -1.72 -1.54	45.00 -0.80 -1.47	43.15 0.33 -1.27
MOHAWK_PAPER___DRP 24187	41.67 0.21 0.68	36.67 0.22 0.41	33.44 0.17 0.22	31.85 0.16 0.13	33.15 0.20 0.18	35.21 0.21 0.31	43.96 0.31 0.47	48.04 0.43 0.25	48.49 0.39 0.89	45.22 0.23 0.94	42.78 0.13 0.76	41.93 0.09 0.73	41.08 0.08 0.72	43.48 0.09 0.82	44.68 0.18 0.88	46.35 0.33 0.94	52.91 0.48 1.08	62.05 0.58 3.19	55.60 0.59 10.28	52.32 0.40 5.72	48.68 0.34 0.31	45.38 0.41 0.42	43.84 0.27 0.75	41.26 0.33 0.62
MOHICAN___35_KV_115KV_LD 80490	42.51 1.14 0.76	37.47 1.07 0.46	34.25 1.00 0.25	32.60 0.92 0.15	33.95 1.03 0.21	35.99 1.02 0.34	45.01 1.41 0.52	49.25 1.67 0.27	49.31 1.32 1.00	45.89 1.01 1.05	43.30 0.74 0.85	42.36 0.60 0.82	41.28 0.38 0.80	43.83 0.53 0.92	44.94 0.54 0.99	46.66 0.75 1.06	53.53 1.23 1.21	67.97 1.88 -1.44	73.95 2.29 -6.37	63.43 1.84 -3.95	50.06 1.75 0.34	46.65 1.72 0.47	44.86 1.37 0.84	42.02 1.16 0.69
MONGAUP___HYD 23641	44.56 1.64 -0.78	38.72 1.40 -0.46	34.88 1.14 -0.25	33.03 1.05 -0.15	34.37 1.03 -0.21	36.82 1.16 -0.35	46.15 1.50 -0.53	49.66 1.53 -0.28	51.43 1.42 -1.02	48.30 1.28 -1.07	45.63 1.35 -0.87	44.69 1.28 -0.83	43.86 1.33 -0.82	46.65 1.50 -0.94	48.11 1.72 -1.00	50.10 2.06 -1.08	57.04 2.30 -1.23	68.33 2.98 -0.69	69.57 3.07 -1.21	60.66 2.60 -0.43	50.95 1.95 -0.35	47.91 2.04 -0.48	47.04 1.86 -0.85	43.75 1.49 -0.70
MONTAUK___DIESEL 23721	43.84 0.80 -0.90	37.76 0.37 -0.54	33.74 -0.03 -0.28	31.74 -0.25 -0.17	33.04 -0.33 -0.23	35.99 0.28 -0.40	44.15 -0.57 -0.60	45.48 -0.72 1.66	46.05 -0.34 2.59	45.74 0.09 0.29	44.20 1.09 0.30	45.10 1.58 -0.95	44.73 2.09 -0.93	47.23 1.95 -1.07	48.76 2.22 -1.15	50.73 2.54 -1.23	58.15 3.21 -1.43	69.22 3.75 -0.81	70.62 3.92 -1.40	61.43 3.29 -0.51	50.60 1.56 -0.39	46.59 1.36 0.16	44.06 0.89 1.16	43.85 1.50 -0.80
MOONROAD_115KV_HARTFLD_TB1-2 355988	45.16 1.77 -1.25	39.34 1.62 -0.87	35.76 1.64 -0.62	34.04 1.72 -0.50	35.68 1.86 -0.69	38.13 1.98 -0.85	48.82 2.60 -2.10	52.92 2.63 -2.43	52.87 2.11 -1.77	49.93 2.43 -1.56	47.40 2.60 -1.38	46.60 2.68 -1.34	45.63 2.59 -1.33	48.42 2.74 -1.46	49.90 3.00 -1.53	50.72 2.11 -1.64	56.79 1.12 -2.16	67.47 0.45 -2.36	68.83 0.46 -3.08	60.72 0.58 -2.51	51.31 0.83 -1.83	47.62 0.64 -1.59	47.22 1.37 -1.51	43.94 1.08 -1.31



MORRIS_RIDGE___SOLAR 323848	44.42 0.84 -1.44	38.66 0.81 -1.00	35.15 0.94 -0.72	33.39 0.99 -0.58	35.05 1.13 -0.79	37.45 1.16 -0.98	47.73 1.19 -2.42	51.90 1.24 -2.80	51.77 0.74 -2.04	48.33 0.60 -1.79	45.53 0.52 -1.59	44.60 0.47 -1.55	43.79 0.54 -1.54	46.57 0.66 -1.69	47.96 0.82 -1.76	49.14 0.28 -1.89	55.34 -0.54 -2.37	66.34 -0.91 -2.59	68.22 -0.45 -3.38	60.33 -0.06 -2.75	50.80 0.15 -2.01	47.22 0.09 -1.74	46.61 0.62 -1.66	44.19 1.21 -1.43
MORTIMER_115KV_TB3 55949	43.72 0.42 -1.16	38.06 0.41 -0.80	34.57 0.50 -0.58	32.80 0.51 -0.46	34.37 0.60 -0.64	36.66 0.56 -0.78	46.73 0.66 -1.94	50.77 0.67 -2.25	51.12 0.49 -1.64	48.02 0.64 -1.44	45.39 0.69 -1.28	44.59 0.77 -1.24	43.69 0.75 -1.24	46.41 0.84 -1.36	47.70 0.91 -1.41	48.95 0.47 -1.52	55.52 0.05 -1.96	66.73 -0.06 -2.14	68.02 -0.07 -2.79	60.02 0.12 -2.27	50.46 0.15 -1.66	46.97 0.14 -1.44	46.10 0.40 -1.37	42.86 0.12 -1.18
MOTTHAVN_138_KV_9M4_REV_LBMP_J 345006	44.98 1.94 -0.90	39.09 1.70 -0.54	35.19 1.41 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.98 1.27 -0.40	46.23 1.50 -0.61	49.80 1.63 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.63 2.21 -1.00	45.88 2.34 -0.96	45.15 2.50 -0.94	47.77 2.48 -1.08	49.17 2.63 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.89 3.43 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.80 1.75 -0.40	47.89 1.95 -0.55	47.22 1.91 -0.99	44.23 1.87 -0.81
MUNSVILLE_WIND_PWR 323609	46.91 3.20 -1.57	40.71 2.77 -1.09	36.79 2.51 -0.78	34.75 2.29 -0.63	36.35 2.35 -0.86	39.05 2.68 -1.06	50.64 3.88 -2.63	55.30 4.40 -3.05	55.37 4.16 -2.22	51.34 3.45 -1.95	47.97 2.82 -1.74	46.95 2.68 -1.68	45.72 2.33 -1.67	48.35 2.30 -1.84	49.66 2.36 -1.92	51.41 2.39 -2.06	59.36 3.26 -2.58	71.68 4.20 -2.82	74.26 5.29 -3.68	65.76 5.13 -3.00	55.22 4.38 -2.19	51.11 3.81 -1.90	49.82 3.68 -1.81	46.27 3.16 -1.56
N SALMON___HYD 24042	43.85 1.05 -0.66	41.43 0.85 -3.73	39.94 0.80 -5.65	39.20 0.76 -6.61	36.49 0.76 -2.60	47.90 0.92 -11.67	57.32 0.66 -12.54	58.85 0.58 -10.42	59.46 0.83 -9.64	47.70 0.87 -0.90	44.11 0.69 0.00	43.89 0.60 -0.72	42.37 0.67 0.00	50.49 0.22 -6.05	51.18 0.05 -5.76	51.62 0.05 -4.61	62.26 0.27 -8.48	65.37 0.71 0.00	69.21 1.04 -2.88	67.55 1.21 -8.71	52.55 1.07 -2.83	49.22 0.95 -2.88	45.57 1.24 0.00	43.13 1.58 0.00
N.AKRON__115KV_KNAPP 355671	44.68 1.35 -1.19	38.90 1.22 -0.83	35.43 1.34 -0.60	33.67 1.37 -0.48	35.31 1.52 -0.66	37.63 1.52 -0.81	47.75 1.63 -2.00	51.75 1.58 -2.32	51.90 1.22 -1.69	48.89 1.47 -1.48	46.25 1.52 -1.32	45.43 1.58 -1.28	44.44 1.46 -1.27	47.29 1.68 -1.40	48.61 1.77 -1.46	49.51 0.99 -1.56	55.69 0.16 -2.02	66.80 -0.06 -2.21	68.11 -0.07 -2.88	60.21 0.23 -2.35	50.80 0.44 -1.72	47.29 0.41 -1.49	46.76 1.02 -1.42	43.44 0.66 -1.22
N.E_GEN_SANDY PD 24062	35.84 0.59 6.89	33.30 0.55 4.11	31.70 0.43 2.23	30.86 0.38 1.34	31.61 0.33 1.86	32.66 0.43 3.08	40.00 0.57 4.69	46.00 0.62 2.47	40.62 0.64 9.00	37.09 0.64 9.49	36.42 0.69 7.69	35.94 0.72 7.36	35.21 0.71 7.21	36.78 0.84 8.27	37.46 0.95 8.88	38.58 1.13 9.51	43.90 1.28 10.89	61.00 1.49 5.15	59.50 1.37 7.17	56.90 1.04 1.77	46.30 0.73 3.08	42.00 0.82 4.21	39.10 0.67 5.89	34.00 0.33 7.88
N.HEMPST_138_KV_BK345_REV_LBMP_G 345014	44.55 1.56 -0.85	38.73 1.36 -0.51	34.87 1.11 -0.28	32.95 0.95 -0.17	34.26 0.89 -0.23	36.75 1.06 -0.38	45.94 1.24 -0.58	49.50 1.34 -0.31	51.53 1.42 -1.12	48.58 1.47 -1.18	46.15 1.78 -0.95	45.32 1.83 -0.91	44.60 2.00 -0.89	47.27 2.03 -1.03	48.71 2.22 -1.10	50.58 2.44 -1.18	57.48 2.62 -1.35	68.39 2.97 -0.76	69.49 2.87 -1.33	60.41 2.31 -0.47	50.54 1.51 -0.38	47.59 1.68 -0.52	46.86 1.60 -0.94	43.86 1.54 -0.77
N.QUEENS_27_KV_LOAD 356247	45.28 2.23 -0.91	39.39 1.99 -0.54	35.49 1.71 -0.29	33.53 1.53 -0.18	34.80 1.42 -0.24	37.16 1.45 -0.40	46.23 1.50 -0.61	50.34 2.06 -0.43	52.43 2.11 -1.33	49.62 2.34 -1.34	46.89 2.47 -1.00	46.22 2.68 -0.96	45.53 2.88 -0.94	48.12 2.83 -1.08	49.40 2.86 -1.16	51.40 3.19 -1.24	58.46 3.53 -1.42	69.28 3.81 -0.81	70.35 3.66 -1.40	61.13 3.00 -0.50	50.80 1.75 -0.40	48.26 2.31 -0.55	47.76 2.44 -0.99	44.74 2.37 -0.82
N.TROY___115KV_TB1 355778	41.79 0.67 1.02	36.87 0.63 0.61	33.70 0.54 0.33	32.13 0.51 0.20	33.39 0.53 0.27	35.42 0.56 0.46	44.22 0.79 0.69	48.39 0.91 0.37	48.54 0.88 1.33	45.22 0.69 1.40	42.89 0.61 1.14	42.05 0.55 1.09	41.18 0.54 1.07	43.57 0.57 1.22	44.75 0.68 1.31	46.45 0.89 1.41	53.02 1.12 1.61	69.80 1.42 -3.72	81.68 1.44 -14.95	67.79 1.15 -9.01	49.12 0.92 0.46	45.77 1.00 0.62	44.01 0.80 1.12	41.42 0.79 0.92
NARROWS_GT1_1 24228	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT1_2 24229	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT1_3 24230	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT1_4 24231	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT1_5 24232	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81



NARROWS_GT1_6 24233	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT1_7 24234	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT1_8 24235	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.72 2.77 -6.99	61.50 2.89 -5.10	70.18 3.10 -2.42	71.09 3.01 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_1 24236	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_2 24237	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_3 24238	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_4 24239	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_5 24240	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_6 24241	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_7 24242	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NARROWS_GT2_8 24243	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NCATSKLL_69_KV_NC-LINE_REV_LBMP_G 345022	42.81 0.93 0.26	37.51 0.81 0.15	34.11 0.70 0.08	32.44 0.67 0.05	33.83 0.76 0.07	36.04 0.85 0.12	45.13 1.19 0.18	49.48 1.72 0.09	50.02 1.37 0.34	46.31 0.74 0.36	43.25 0.13 0.29	42.17 -0.13 0.28	41.23 -0.21 0.27	43.81 -0.09 0.31	45.05 0.00 0.33	47.07 0.47 0.36	53.85 0.75 0.41	64.32 1.36 1.69	61.30 1.63 5.62	55.79 1.33 3.17	49.70 1.17 0.12	46.41 1.18 0.16	44.97 0.93 0.28	42.56 1.25 0.23
NCHELSEA_115KV_TR2 355582	44.47 1.64 -0.69	38.67 1.40 -0.41	34.89 1.17 -0.22	32.98 1.02 -0.13	34.31 0.99 -0.19	36.75 1.13 -0.31	46.05 1.46 -0.47	49.58 1.48 -0.25	51.41 1.52 -0.90	48.36 1.47 -0.95	45.92 1.74 -0.77	45.02 1.70 -0.74	44.27 1.84 -0.72	46.95 1.90 -0.83	48.36 2.09 -0.89	50.31 2.40 -0.95	57.17 2.57 -1.09	68.31 3.04 -0.62	69.31 2.94 -1.07	60.44 2.42 -0.38	50.71 1.75 -0.31	47.68 1.86 -0.42	46.81 1.73 -0.76	43.84 1.66 -0.62
NEG CAPITAL___MECHNVIL 23645	42.49 1.22 0.87	37.44 1.10 0.52	34.21 1.00 0.28	32.58 0.92 0.17	33.89 0.99 0.23	35.98 1.06 0.39	44.98 1.45 0.59	49.21 1.67 0.31	49.32 1.47 1.14	45.98 1.24 1.20	43.48 1.04 0.97	42.58 0.94 0.93	41.59 0.79 0.91	44.19 1.02 1.05	45.26 1.00 1.12	46.98 1.22 1.20	53.74 1.60 1.38	69.00 2.20 -2.14	76.69 2.35 -9.05	65.14 1.96 -5.54	50.01 1.75 0.39	46.54 1.68 0.53	44.79 1.42 0.96	41.80 1.04 0.79
NEG CENTRAL_HIGH_ACRES 23767	43.00 -0.46 -1.33	37.37 -0.40 -0.92	33.92 -0.23 -0.66	32.13 -0.22 -0.53	33.70 -0.16 -0.73	35.99 -0.21 -0.90	46.08 -0.26 -2.22	50.24 -0.19 -2.58	50.57 -0.29 -1.88	47.40 -0.18 -1.65	44.75 -0.13 -1.47	43.92 -0.08 -1.42	43.04 -0.08 -1.41	45.72 -0.04 -1.55	46.91 -0.09 -1.62	48.32 -0.38 -1.74	55.22 -0.70 -2.41	66.25 -1.04 -2.63	67.75 -0.98 -3.43	59.74 -0.69 -2.80	50.11 -0.58 -2.04	46.53 -0.64 -1.77	45.61 -0.40 -1.69	42.92 -0.08 -1.46



NEG CENTRAL___DRP 24199	46.09 1.22 -2.73	40.14 1.22 -2.07	36.35 1.21 -1.65	34.41 1.15 -1.44	36.08 1.33 -1.62	39.21 1.45 -2.45	51.17 1.85 -5.20	55.71 2.06 -5.80	55.23 1.91 -4.33	50.99 1.65 -3.40	47.83 1.43 -2.98	46.87 1.36 -2.93	45.92 1.33 -2.87	49.20 1.50 -3.48	50.52 1.54 -3.60	52.15 1.41 -3.78	58.98 0.48 -4.99	70.33 0.71 -4.96	72.82 0.91 -6.61	64.22 0.86 -5.72	53.37 0.73 -3.99	49.43 0.54 -3.49	48.17 0.66 -3.18	44.71 0.42 -2.74
NEG CENTRAL___INDECK 23768	45.56 2.02 -1.40	39.59 1.77 -0.97	36.00 1.81 -0.70	34.13 1.75 -0.56	35.86 1.95 -0.77	38.30 2.05 -0.95	49.07 2.60 -2.35	53.54 2.97 -2.72	53.42 2.45 -1.98	49.65 1.97 -1.74	46.65 1.69 -1.55	45.61 1.53 -1.50	44.79 1.58 -1.49	47.62 1.77 -1.64	48.95 1.86 -1.71	50.44 1.64 -1.83	57.37 1.55 -2.31	69.19 2.01 -2.52	71.20 2.61 -3.29	63.08 2.77 -2.68	52.94 2.34 -1.96	49.09 1.99 -1.70	48.21 2.26 -1.62	45.48 2.53 -1.40
NEG CENTRAL___SENECA 23627	46.51 1.98 -2.39	40.47 1.95 -1.66	36.63 1.94 -1.19	34.63 1.85 -0.96	36.54 2.09 -1.32	39.19 2.26 -1.62	50.96 2.82 -4.01	55.66 3.16 -4.65	55.31 2.94 -3.39	51.48 2.57 -2.97	48.32 2.26 -2.65	47.23 2.09 -2.57	46.34 2.09 -2.55	49.36 2.34 -2.80	50.66 2.36 -2.92	52.30 2.21 -3.13	58.23 0.70 -4.02	70.02 0.97 -4.39	72.20 1.18 -5.73	63.46 1.15 -4.67	53.03 0.97 -3.41	49.08 0.73 -2.96	48.08 0.93 -2.82	44.56 0.58 -2.43
NEG CENTRAL___STATE_STREET 24147	45.38 0.42 -2.82	39.40 0.41 -2.14	35.63 0.44 -1.71	33.69 0.38 -1.49	35.28 0.46 -1.68	38.38 0.53 -2.54	50.29 0.79 -5.38	54.81 0.96 -6.00	54.31 0.83 -4.48	50.19 0.74 -3.52	47.15 0.65 -3.08	46.21 0.60 -3.03	45.31 0.63 -2.97	48.52 0.71 -3.60	49.79 0.68 -3.72	51.44 0.56 -3.91	59.16 0.48 -5.17	70.50 0.71 -5.13	73.00 0.85 -6.86	64.38 0.81 -5.94	53.47 0.68 -4.14	49.51 0.50 -3.62	48.20 0.58 -3.29	44.72 0.33 -2.84
NEG MILLWOOD___DRP 24198	44.73 1.81 -0.78	38.90 1.58 -0.46	35.05 1.31 -0.25	33.12 1.15 -0.15	34.47 1.13 -0.21	36.96 1.31 -0.35	46.24 1.59 -0.53	49.85 1.72 -0.28	51.81 1.81 -1.01	48.80 1.79 -1.07	46.36 2.08 -0.87	45.45 2.04 -0.83	44.61 2.09 -0.81	47.36 2.21 -0.93	48.74 2.36 -1.00	50.71 2.68 -1.07	57.63 2.89 -1.23	68.65 3.30 -0.69	69.70 3.20 -1.20	60.71 2.65 -0.43	50.94 1.95 -0.35	47.95 2.09 -0.47	47.08 1.91 -0.85	44.04 1.79 -0.70
NEG NORTH_FLCN_SEA 23793	43.46 1.18 -0.14	38.52 0.88 -0.78	35.54 0.87 -1.18	34.04 0.83 -1.38	34.51 0.83 -0.54	38.74 0.99 -2.44	46.61 -0.13 -2.63	49.41 -0.62 -2.18	50.71 -0.29 -2.02	45.94 -0.18 -0.19	43.11 -0.30 0.00	42.30 -0.43 -0.15	41.00 -0.71 0.00	45.22 -0.27 -1.27	45.27 -1.32 -1.21	46.52 -1.41 -0.97	54.00 -1.28 -1.78	63.82 -0.84 0.00	65.44 -0.46 -0.60	59.40 -0.06 -1.82	49.29 0.05 -0.59	46.04 0.05 -0.60	44.46 0.13 0.00	42.59 1.04 0.00
NEG NORTH_KES_CHATEGAY 23792	43.04 0.63 -0.27	38.82 0.44 -1.52	36.23 0.44 -2.30	34.93 0.41 -2.69	34.62 0.43 -1.06	40.59 0.53 -4.76	49.23 0.00 -5.11	51.91 -0.19 -4.25	52.96 0.05 -3.93	46.39 0.09 -0.36	43.41 0.00 0.00	42.74 -0.13 -0.29	41.37 -0.33 0.00	46.50 -0.18 -2.47	46.96 -0.77 -2.35	48.04 -0.80 -1.88	56.32 -0.64 -3.45	64.40 -0.26 0.00	66.60 0.13 -1.17	61.53 0.35 -3.55	50.19 0.39 -1.15	46.88 0.32 -1.17	44.73 0.40 0.00	42.34 0.79 0.00
NEG NORTH___ALICE_FALLS 23915	43.52 1.22 -0.16	38.69 0.92 -0.91	35.78 0.90 -1.38	34.30 0.86 -1.62	34.63 0.86 -0.64	39.19 1.02 -2.86	47.37 0.18 -3.07	50.26 -0.14 -2.56	51.50 0.15 -2.36	46.39 0.23 -0.22	43.50 0.09 0.00	42.71 -0.04 -0.18	41.37 -0.33 0.00	45.70 0.00 -1.48	45.93 -0.86 -1.41	47.15 -0.94 -1.13	54.89 -0.70 -2.08	64.53 -0.13 0.00	66.26 0.26 -0.71	60.35 0.58 -2.14	49.93 0.58 -0.69	46.60 0.50 -0.71	44.86 0.53 0.00	42.76 1.20 0.00
NEG NORTH___LWR_SARANAC 23913	43.52 1.22 -0.16	38.69 0.92 -0.91	35.78 0.90 -1.38	34.30 0.86 -1.62	34.63 0.86 -0.64	39.19 1.02 -2.86	47.37 0.18 -3.07	50.26 -0.14 -2.56	51.50 0.15 -2.36	46.39 0.23 -0.22	43.50 0.09 0.00	42.71 -0.04 -0.18	41.37 -0.33 0.00	45.70 0.00 -1.48	45.93 -0.86 -1.41	47.15 -0.94 -1.13	54.89 -0.70 -2.08	64.53 -0.13 0.00	66.26 0.26 -0.71	60.35 0.58 -2.14	49.93 0.58 -0.69	46.60 0.50 -0.71	44.86 0.53 0.00	42.76 1.20 0.00
NEG NORTH___PLATTSBURG 23628	43.52 1.22 -0.16	38.69 0.92 -0.91	35.78 0.90 -1.38	34.30 0.86 -1.62	34.63 0.86 -0.64	39.19 1.02 -2.86	47.37 0.18 -3.07	50.26 -0.14 -2.56	51.50 0.15 -2.36	46.39 0.23 -0.22	43.50 0.09 0.00	42.71 -0.04 -0.18	42.00 0.29 0.00	45.12 -0.58 -1.48	45.93 -0.86 -1.41	47.16 -0.94 -1.13	54.84 -0.75 -2.08	64.53 -0.13 0.00	66.26 0.26 -0.71	60.35 0.58 -2.14	49.88 0.54 -0.69	46.60 0.50 -0.71	45.53 1.20 0.00	43.59 2.04 0.00
NEG WEST_LEA_LOCKPORT 23791	43.72 0.38 -1.20	38.09 0.41 -0.84	34.73 0.64 -0.60	33.01 0.70 -0.48	34.59 0.80 -0.66	36.83 0.71 -0.82	46.45 0.31 -2.02	50.19 0.00 -2.34	50.20 -0.49 -1.71	47.48 0.05 -1.50	45.01 0.26 -1.33	44.30 0.43 -1.29	43.37 0.38 -1.29	46.11 0.49 -1.41	47.49 0.64 -1.47	48.17 -0.38 -1.58	53.84 -1.71 -2.04	64.31 -2.59 -2.24	65.47 -2.74 -2.92	57.82 -2.19 -2.38	48.97 -1.41 -1.73	45.67 -1.23 -1.50	45.41 -0.35 -1.43	42.41 -0.37 -1.24
NEG WEST___LANCASTER 23811	43.69 0.29 -1.26	38.06 0.33 -0.87	34.62 0.50 -0.63	32.90 0.57 -0.50	34.49 0.66 -0.69	36.79 0.64 -0.85	46.80 0.57 -2.11	50.73 0.43 -2.44	50.72 -0.05 -1.78	47.87 0.37 -1.56	45.37 0.56 -1.39	44.61 0.68 -1.35	43.72 0.67 -1.34	46.48 0.80 -1.47	48.01 1.09 -1.53	48.75 0.14 -1.65	54.64 -1.02 -2.15	65.26 -1.75 -2.35	66.59 -1.76 -3.06	58.75 -1.38 -2.50	49.64 -0.83 -1.82	46.11 -0.86 -1.58	45.70 -0.13 -1.50	42.48 -0.37 -1.30
NEG_PENN_ALLEGHNY 23528	44.46 0.76 -1.56	38.60 0.66 -1.08	34.94 0.67 -0.78	33.09 0.64 -0.63	34.69 0.70 -0.86	37.07 0.71 -1.06	47.67 0.93 -2.62	51.94 1.05 -3.04	52.13 0.93 -2.21	48.75 0.87 -1.94	45.96 0.82 -1.73	45.06 0.81 -1.67	44.21 0.83 -1.67	47.01 0.97 -1.83	48.33 1.04 -1.91	49.90 0.89 -2.05	56.90 0.80 -2.58	68.32 0.84 -2.82	69.89 0.91 -3.69	61.50 0.87 -3.00	51.57 0.73 -2.19	47.93 0.64 -1.90	46.89 0.75 -1.81	43.90 0.79 -1.56
NEG___GEN_MONROE 24207	44.10 0.80 -1.16	38.40 0.74 -0.80	34.84 0.77 -0.58	33.05 0.76 -0.46	34.63 0.86 -0.64	36.97 0.88 -0.79	47.04 0.97 -1.95	51.02 0.91 -2.26	51.27 0.64 -1.64	48.21 0.83 -1.44	45.57 0.87 -1.28	44.72 0.89 -1.24	43.74 0.79 -1.24	46.50 0.93 -1.36	47.75 0.95 -1.42	48.91 0.42 -1.52	55.36 -0.11 -1.96	66.54 -0.26 -2.14	67.83 -0.26 -2.80	59.97 0.06 -2.28	50.46 0.15 -1.66	47.02 0.18 -1.44	46.19 0.49 -1.37	43.07 0.33 -1.19
NEPA___ENERGY 23901	44.40 1.01 -1.25	38.68 0.96 -0.87	35.19 1.07 -0.63	33.44 1.11 -0.50	35.05 1.23 -0.69	37.39 1.24 -0.85	47.46 1.24 -2.10	51.34 1.05 -2.44	51.30 0.54 -1.77	48.37 0.87 -1.56	45.84 1.04 -1.39	45.12 1.19 -1.34	44.21 1.17 -1.34	47.05 1.37 -1.47	48.59 1.68 -1.53	49.36 0.75 -1.64	55.33 -0.32 -2.14	66.22 -0.78 -2.34	67.56 -0.78 -3.05	59.60 -0.52 -2.48	50.32 -0.15 -1.81	46.78 -0.18 -1.57	46.31 0.49 -1.50	43.13 0.29 -1.29



NEVERSINK___HYD 23608	44.38 1.64 -0.60	38.61 1.40 -0.36	34.83 1.14 -0.19	32.96 1.02 -0.12	34.29 0.99 -0.16	36.70 1.13 -0.27	46.03 1.50 -0.41	49.69 1.63 -0.22	51.34 1.57 -0.78	48.28 1.51 -0.83	45.69 1.61 -0.67	44.75 1.53 -0.64	43.92 1.58 -0.63	46.71 1.77 -0.72	48.11 1.95 -0.77	50.09 2.30 -0.83	56.98 2.52 -0.95	68.30 3.10 -0.53	69.36 3.13 -0.93	60.56 2.60 -0.33	50.87 1.95 -0.27	47.80 2.04 -0.37	46.85 1.86 -0.66	43.55 1.45 -0.54
NEWKRMKL_115KV_TB1 55635	41.32 -0.21 0.60	36.31 -0.18 0.36	33.13 -0.17 0.20	31.52 -0.19 0.12	32.84 -0.13 0.16	34.90 -0.14 0.27	43.49 -0.22 0.41	47.54 -0.10 0.22	48.05 -0.15 0.79	44.83 -0.28 0.83	42.35 -0.39 0.68	41.55 -0.38 0.65	40.70 -0.38 0.63	43.09 -0.40 0.73	44.28 -0.32 0.78	45.94 -0.19 0.84	52.39 -0.16 0.96	61.83 -0.19 2.63	56.61 -0.26 8.42	52.62 -0.35 4.67	48.14 -0.24 0.27	44.84 -0.18 0.37	43.35 -0.31 0.66	40.92 -0.08 0.55
NEWTON___FALLS_HYD 23847	45.50 1.18 -2.18	45.51 1.03 -7.62	45.35 0.84 -11.02	45.28 0.73 -12.72	39.23 0.73 -5.37	58.63 0.88 -22.44	70.36 1.24 -25.00	70.50 1.34 -21.31	69.60 1.27 -19.34	49.80 1.01 -2.85	45.03 0.56 -1.05	45.45 0.51 -2.36	43.10 0.38 -1.01	56.98 0.35 -12.41	57.56 0.27 -11.91	57.00 0.19 -9.85	71.37 0.43 -17.43	66.93 0.52 -1.75	73.87 0.91 -7.66	76.79 1.04 -18.12	56.21 0.92 -6.64	52.94 1.00 -6.55	46.43 0.98 -1.12	43.27 0.75 -0.97
NGRID_A1_DSASP 323792	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.56 -0.62 -2.33	49.56 -1.12 -1.70	46.69 -0.74 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.74 -0.25 -1.28	45.31 -0.31 -1.40	46.62 -0.23 -1.46	47.45 -1.08 -1.57	53.08 -2.51 -2.08	62.99 -3.95 -2.28	64.22 -4.05 -2.97	56.83 -3.23 -2.42	48.08 -2.33 -1.77	44.93 -2.00 -1.53	44.68 -1.11 -1.46	43.60 0.79 -1.26
NGRID_A2_DSASP 323793	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.56 -0.62 -2.33	49.56 -1.12 -1.70	46.69 -0.74 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.74 -0.25 -1.28	45.31 -0.31 -1.40	46.62 -0.23 -1.46	47.45 -1.08 -1.57	53.08 -2.51 -2.08	62.99 -3.95 -2.28	64.22 -4.05 -2.97	56.83 -3.23 -2.42	48.08 -2.33 -1.77	44.93 -2.00 -1.53	44.68 -1.11 -1.46	43.60 0.79 -1.26
NGRID_A4_DSASP 323807	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.56 -0.62 -2.33	49.56 -1.12 -1.70	46.69 -0.74 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.74 -0.25 -1.28	45.31 -0.31 -1.40	46.62 -0.23 -1.46	47.45 -1.08 -1.57	53.08 -2.51 -2.08	62.99 -3.95 -2.28	64.22 -4.05 -2.97	56.83 -3.23 -2.42	48.08 -2.33 -1.77	44.93 -2.00 -1.53	44.68 -1.11 -1.46	43.60 0.79 -1.26
NIAGARA_115E_LBMP 323715	43.09 -0.25 -1.20	37.54 -0.15 -0.83	34.30 0.20 -0.60	32.59 0.29 -0.48	34.13 0.33 -0.66	36.30 0.18 -0.82	45.74 -0.40 -2.02	49.62 -0.57 -2.34	49.62 -1.08 -1.71	46.79 -0.64 -1.50	44.35 -0.39 -1.33	43.62 -0.25 -1.29	42.83 -0.17 -1.28	45.40 -0.22 -1.41	46.76 -0.09 -1.47	47.46 -1.08 -1.58	53.15 -2.46 -2.10	63.07 -3.88 -2.29	64.37 -3.92 -2.99	56.90 -3.17 -2.44	48.14 -2.29 -1.78	44.94 -2.00 -1.54	44.78 -1.02 -1.47	42.94 0.13 -1.27
NIAGARA_115W_LBMP 323714	43.76 0.42 -1.20	38.09 0.41 -0.83	34.76 0.67 -0.60	33.04 0.73 -0.48	34.62 0.83 -0.66	36.86 0.74 -0.81	45.73 -0.40 -2.01	49.41 -0.77 -2.33	49.46 -1.22 -1.69	46.55 -0.87 -1.49	44.13 -0.61 -1.32	43.40 -0.47 -1.28	42.61 -0.38 -1.28	45.22 -0.40 -1.40	46.53 -0.32 -1.46	47.36 -1.17 -1.57	52.97 -2.62 -2.08	62.86 -4.07 -2.28	64.08 -4.18 -2.97	56.65 -3.40 -2.42	47.98 -2.43 -1.77	44.79 -2.13 -1.53	44.55 -1.24 -1.46	43.56 0.75 -1.26
NIAGARA_230_LBMP 323716	43.50 0.17 -1.19	37.90 0.22 -0.82	34.55 0.47 -0.59	32.84 0.54 -0.48	34.42 0.63 -0.65	36.64 0.53 -0.80	46.07 -0.04 -1.99	50.02 -0.14 -2.31	50.09 -0.59 -1.68	47.14 -0.27 -1.48	44.64 -0.09 -1.31	43.94 0.09 -1.27	43.10 0.13 -1.27	45.78 0.18 -1.39	47.11 0.27 -1.45	47.96 -0.56 -1.56	53.65 -1.92 -2.07	63.75 -3.17 -2.26	65.05 -3.20 -2.95	57.50 -2.53 -2.40	48.65 -1.75 -1.75	45.42 -1.50 -1.52	45.11 -0.66 -1.45	43.30 0.50 -1.25
NIAGARA___115KV_198_GIBSON 55903	43.76 0.42 -1.20	38.09 0.41 -0.83	34.76 0.67 -0.60	33.04 0.73 -0.48	34.62 0.83 -0.66	36.86 0.74 -0.81	45.73 -0.40 -2.01	49.17 -1.00 -2.33	49.16 -1.52 -1.69	46.51 -0.92 -1.49	44.13 -0.61 -1.32	43.44 -0.43 -1.28	42.53 -0.46 -1.28	45.22 -0.40 -1.40	46.53 -0.32 -1.46	47.22 -1.31 -1.57	52.76 -2.78 -2.03	62.87 -4.01 -2.22	64.01 -4.18 -2.90	56.48 -3.52 -2.36	47.89 -2.48 -1.72	44.75 -2.13 -1.50	44.51 -1.24 -1.42	42.37 -0.42 -1.23
NIAGARA____ 23760	43.51 0.17 -1.20	37.91 0.22 -0.83	34.56 0.47 -0.60	32.85 0.54 -0.48	34.42 0.63 -0.66	36.65 0.53 -0.82	46.09 -0.04 -2.02	50.04 -0.14 -2.34	50.10 -0.59 -1.70	47.16 -0.27 -1.49	44.65 -0.09 -1.33	43.95 0.09 -1.29	43.11 0.13 -1.28	45.80 0.18 -1.40	47.12 0.27 -1.46	47.97 -0.56 -1.57	53.67 -1.92 -2.08	63.77 -3.17 -2.28	65.06 -3.20 -2.97	57.52 -2.53 -2.42	48.67 -1.75 -1.77	45.43 -1.50 -1.53	45.13 -0.66 -1.46	43.32 0.50 -1.27
NINE_MILE_1 23575	24.63 -0.97 16.54	24.55 -0.85 11.46	24.49 -0.74 8.26	24.49 -0.70 6.63	23.30 -0.73 9.11	23.33 -0.78 11.20	15.43 -0.93 27.76	14.72 -0.96 32.18	24.54 -1.03 23.42	24.40 -0.97 20.57	24.20 -0.91 18.30	23.90 -0.94 17.74	23.19 -0.88 17.64	23.93 -0.93 19.35	24.24 -0.96 20.19	24.22 -1.08 21.67	24.40 -1.23 27.88	32.62 -1.55 30.48	24.03 -1.50 39.77	23.96 -1.27 32.41	23.93 -1.07 23.65	23.83 -1.04 20.52	23.81 -0.98 19.54	23.77 -0.91 16.87
NINE_MILE_2 23744	24.35 -0.97 16.82	24.35 -0.85 11.66	24.35 -0.74 8.40	24.38 -0.70 6.74	23.14 -0.73 9.26	23.14 -0.78 11.39	14.96 -0.93 28.23	14.17 -0.96 32.73	24.14 -1.03 23.82	24.05 -0.97 20.92	23.89 -0.91 18.61	23.60 -0.94 18.04	22.89 -0.88 17.94	23.60 -0.93 19.68	23.89 -0.96 20.53	23.85 -1.08 22.04	23.93 -1.23 28.36	32.10 -1.55 31.00	23.35 -1.50 40.44	23.41 -1.27 32.96	23.53 -1.07 24.05	23.48 -1.04 20.87	23.48 -0.98 19.87	23.48 -0.91 17.16
NM_CAPITAL___DRP 24208	41.34 -0.13 0.67	36.38 -0.07 0.40	33.17 -0.10 0.22	31.60 -0.10 0.13	32.89 -0.07 0.18	34.94 -0.07 0.30	43.53 -0.13 0.46	47.56 -0.05 0.24	48.06 -0.05 0.88	44.87 -0.14 0.93	42.40 -0.26 0.75	41.61 -0.26 0.72	40.75 -0.25 0.70	43.14 -0.27 0.81	44.33 -0.18 0.87	45.99 -0.05 0.93	52.45 0.00 1.07	61.39 0.00 3.27	54.64 -0.07 10.59	51.56 -0.17 5.90	48.20 -0.15 0.30	44.93 -0.05 0.41	43.41 -0.18 0.74	40.94 0.00 0.61
NM_CENTRAL___DRP 24181	44.12 -0.17 -2.15	38.43 -0.18 -1.76	34.91 -0.10 -1.52	33.12 -0.10 -1.39	34.44 -0.07 -1.37	37.63 -0.07 -2.39	48.68 0.00 -4.56	52.84 0.05 -4.95	52.76 0.00 -3.77	48.62 0.00 -2.68	45.73 0.00 -2.32	44.84 -0.04 -2.31	43.94 0.00 -2.23	47.17 0.00 -2.96	48.42 0.00 -3.04	49.95 -0.14 -3.13	57.59 -0.16 -4.24	68.33 -0.19 -3.86	70.44 -0.13 -5.28	62.35 -0.12 -4.83	51.83 -0.05 -3.23	48.10 -0.14 -2.84	46.72 -0.09 -2.48	43.48 -0.21 -2.14



NM_FRONTIER___DRP 24179	43.76 0.42 -1.20	38.09 0.41 -0.83	34.76 0.67 -0.60	33.04 0.73 -0.48	34.62 0.83 -0.66	36.86 0.74 -0.81	45.73 -0.40 -2.01	49.17 -1.00 -2.33	49.16 -1.52 -1.69	46.51 -0.92 -1.49	44.13 -0.61 -1.32	43.44 -0.43 -1.28	42.53 -0.46 -1.28	45.22 -0.40 -1.40	46.53 -0.32 -1.46	47.22 -1.31 -1.57	52.76 -2.78 -2.03	62.87 -4.01 -2.22	64.01 -4.18 -2.90	56.48 -3.52 -2.36	47.89 -2.48 -1.72	44.75 -2.13 -1.50	44.51 -1.24 -1.42	42.37 -0.42 -1.23
NM_ST_REGIS___HYD 24053	45.15 0.97 -2.04	46.91 0.81 -9.25	47.97 0.74 -13.74	48.52 0.70 -16.00	40.30 0.70 -6.47	64.36 0.81 -28.25	75.69 0.79 -30.78	74.51 0.81 -25.85	73.64 0.93 -23.72	49.53 0.87 -2.72	44.62 0.69 -0.51	45.43 0.64 -2.21	42.70 0.50 -0.49	59.77 0.53 -15.02	60.08 0.36 -14.34	58.93 0.33 -11.64	75.00 0.43 -21.06	66.16 0.65 -0.85	74.08 0.78 -8.00	80.18 0.81 -21.74	56.90 0.83 -7.43	53.72 0.86 -7.46	45.76 0.89 -0.55	42.98 0.96 -0.47
NORTHPORT___1 23551	44.39 1.35 -0.90	38.46 1.07 -0.54	34.51 0.74 -0.28	32.50 0.51 -0.17	33.80 0.43 -0.23	36.59 0.88 -0.40	45.21 0.49 -0.60	46.40 0.24 1.69	46.58 0.25 2.65	46.59 0.97 0.32	43.79 0.69 0.32	44.46 0.94 -0.95	43.77 1.13 -0.93	46.39 1.11 -1.07	47.85 1.32 -1.15	49.79 1.60 -1.23	56.76 1.82 -1.43	67.34 1.88 -0.81	68.46 1.76 -1.40	59.64 1.50 -0.51	49.58 0.54 -0.39	45.76 0.55 0.18	43.63 0.49 1.19	43.10 0.75 -0.80
NORTHPORT___2 23552	44.39 1.35 -0.90	38.46 1.07 -0.54	34.51 0.74 -0.28	32.50 0.51 -0.17	33.80 0.43 -0.23	36.59 0.88 -0.40	45.21 0.49 -0.60	46.40 0.24 1.69	46.58 0.25 2.65	46.59 0.97 0.32	43.79 0.69 0.32	44.46 0.94 -0.95	43.77 1.13 -0.93	46.39 1.11 -1.07	47.85 1.32 -1.15	49.79 1.60 -1.23	56.76 1.82 -1.43	67.34 1.88 -0.81	68.46 1.76 -1.40	59.64 1.50 -0.51	49.58 0.54 -0.39	45.76 0.55 0.18	43.63 0.49 1.19	43.10 0.75 -0.80
NORTHPORT___3 23553	43.67 0.63 -0.90	37.91 0.52 -0.54	34.01 0.24 -0.28	32.06 0.06 -0.17	33.30 -0.07 -0.23	36.03 0.32 -0.40	44.37 -0.35 -0.60	45.54 -0.62 1.69	45.76 -0.59 2.64	45.76 0.14 0.32	43.27 0.17 0.32	43.90 0.38 -0.94	43.17 0.54 -0.93	45.89 0.62 -1.06	47.30 0.77 -1.14	49.22 1.03 -1.23	56.06 1.13 -1.42	66.62 1.17 -0.80	67.67 0.98 -1.40	58.88 0.75 -0.50	48.99 -0.05 -0.39	45.21 0.00 0.18	43.01 -0.13 1.19	42.30 -0.04 -0.79
NORTHPORT___4 23650	43.67 0.63 -0.90	37.91 0.52 -0.54	34.01 0.24 -0.28	32.06 0.06 -0.17	33.30 -0.07 -0.23	36.03 0.32 -0.40	44.37 -0.35 -0.60	45.54 -0.62 1.69	45.76 -0.59 2.64	45.76 0.14 0.32	43.27 0.17 0.32	43.90 0.38 -0.94	43.17 0.54 -0.93	45.89 0.62 -1.06	47.30 0.77 -1.14	49.22 1.03 -1.23	56.06 1.13 -1.42	66.62 1.17 -0.80	67.67 0.98 -1.40	58.88 0.75 -0.50	48.99 -0.05 -0.39	45.21 0.00 0.18	43.01 -0.13 1.19	42.30 -0.04 -0.79
NORTHPORT___IC 23718	44.39 1.35 -0.90	38.46 1.07 -0.54	34.51 0.74 -0.28	32.50 0.51 -0.17	33.80 0.43 -0.23	36.59 0.88 -0.40	45.21 0.49 -0.60	46.35 0.19 1.69	46.53 0.20 2.65	46.04 0.41 0.31	43.79 0.69 0.32	44.38 0.85 -0.95	43.89 1.25 -0.93	46.34 1.06 -1.07	47.80 1.27 -1.15	49.75 1.55 -1.23	56.76 1.82 -1.43	67.34 1.88 -0.81	68.46 1.76 -1.40	59.58 1.44 -0.51	49.43 0.39 -0.39	45.72 0.50 0.18	43.58 0.44 1.19	43.39 1.04 -0.80
NORTH___COUNTRY_ESR 323785	42.96 0.55 -0.27	38.76 0.37 -1.54	36.19 0.37 -2.33	34.90 0.35 -2.72	34.53 0.33 -1.07	40.54 0.43 -4.81	49.15 -0.13 -5.16	51.81 -0.33 -4.29	52.91 -0.05 -3.97	46.35 0.05 -0.37	43.37 -0.04 0.00	42.71 -0.17 -0.29	41.71 0.00 0.00	46.13 -0.58 -2.49	46.98 -0.77 -2.37	48.02 -0.84 -1.90	56.25 -0.75 -3.49	64.27 -0.39 0.00	66.41 -0.07 -1.19	61.39 0.17 -3.59	50.01 0.20 -1.16	46.81 0.23 -1.19	44.95 0.62 0.00	42.71 1.16 0.00
NPX_GEN_1385_PROXY 323591	44.39 1.35 -0.90	38.46 1.07 -0.54	34.51 0.74 -0.28	32.50 0.51 -0.17	33.80 0.43 -0.23	36.59 0.88 -0.40	45.21 0.49 -0.60	46.40 0.24 1.69	46.58 0.25 2.65	46.59 0.97 0.32	43.79 0.69 0.32	44.46 0.94 -0.95	43.77 1.13 -0.93	46.39 1.11 -1.07	47.85 1.32 -1.15	49.79 1.60 -1.23	56.76 1.82 -1.43	67.34 1.88 -0.81	68.46 1.76 -1.40	59.64 1.50 -0.51	49.58 0.54 -0.39	45.76 0.55 0.18	45.28 0.49 -0.46	41.44 0.75 0.86
NPX_GEN_CSC 323557	43.84 0.80 -0.90	37.87 0.48 -0.54	33.91 0.13 -0.28	31.90 -0.10 -0.17	33.17 -0.20 -0.23	36.03 0.32 -0.40	44.59 -0.13 -0.60	45.91 -0.29 1.66	46.15 -0.24 2.60	46.11 0.46 0.29	43.59 0.48 0.30	44.33 0.81 -0.95	43.68 1.04 -0.93	46.34 1.06 -1.07	47.80 1.27 -1.15	49.79 1.60 -1.23	56.92 1.98 -1.43	67.54 2.07 -0.81	68.73 2.03 -1.40	59.87 1.73 -0.51	49.67 0.63 -0.39	45.73 0.50 0.16	45.14 0.31 -0.50	41.03 0.33 0.86
NSINS_S_GLNS_FALLS 23858	42.44 1.05 0.75	37.40 1.00 0.45	34.19 0.94 0.24	32.57 0.89 0.15	33.92 0.99 0.20	35.92 0.95 0.34	44.89 1.28 0.51	49.11 1.53 0.27	49.23 1.22 0.98	45.82 0.92 1.04	43.27 0.69 0.84	42.29 0.51 0.80	41.25 0.33 0.79	43.75 0.44 0.90	44.87 0.45 0.97	46.58 0.66 1.04	53.50 1.18 1.19	67.76 1.75 -1.36	73.45 2.09 -6.07	63.14 1.73 -3.78	49.97 1.65 0.34	46.57 1.63 0.46	44.79 1.29 0.83	41.95 1.08 0.68
NUCOR_STEEL___DRP 24197	45.44 0.42 -2.88	39.44 0.41 -2.18	35.67 0.44 -1.74	33.72 0.38 -1.52	35.31 0.46 -1.71	38.39 0.49 -2.59	50.36 0.75 -5.49	54.84 0.86 -6.13	54.30 0.73 -4.57	50.21 0.69 -3.59	47.17 0.61 -3.14	46.22 0.55 -3.09	45.32 0.58 -3.03	48.55 0.66 -3.67	49.82 0.64 -3.80	51.47 0.52 -3.99	59.32 0.54 -5.27	70.61 0.71 -5.24	73.14 0.85 -7.00	64.45 0.75 -6.06	53.56 0.68 -4.22	49.58 0.50 -3.69	48.31 0.62 -3.36	44.82 0.37 -2.90
NUMBER_THREE_WT_PWR 323818	45.22 1.39 -1.69	41.90 1.21 -3.83	39.63 0.97 -5.16	38.45 0.80 -5.83	36.64 0.76 -2.74	46.48 0.92 -10.26	57.74 1.50 -12.12	60.24 1.67 -10.71	59.97 1.52 -9.46	49.16 1.06 -2.16	45.00 0.31 -1.28	44.66 0.26 -1.82	43.07 0.13 -1.23	50.52 0.04 -6.26	51.47 0.00 -6.08	52.22 0.00 -5.26	62.71 0.38 -8.82	67.30 0.51 -2.13	71.58 1.18 -5.11	68.23 1.27 -9.33	53.66 1.07 -3.94	50.16 1.00 -3.77	46.58 0.89 -1.36	43.35 0.62 -1.18
NYISO_LBMP_REFERENCE 24008	42.14 0.00 0.00	36.85 0.00 0.00	33.49 0.00 0.00	31.82 0.00 0.00	33.13 0.00 0.00	35.31 0.00 0.00	44.12 0.00 0.00	47.85 0.00 0.00	48.99 0.00 0.00	45.94 0.00 0.00	43.41 0.00 0.00	42.58 0.00 0.00	41.71 0.00 0.00	44.21 0.00 0.00	45.38 0.00 0.00	46.96 0.00 0.00	53.51 0.00 0.00	64.66 0.00 0.00	65.29 0.00 0.00	57.63 0.00 0.00	48.65 0.00 0.00	45.39 0.00 0.00	44.33 0.00 0.00	41.55 0.00 0.00
NYPA_BRENTWD____GT 24164	44.77 1.73 -0.90	38.72 1.32 -0.54	34.71 0.94 -0.28	32.69 0.70 -0.17	34.00 0.63 -0.23	36.84 1.13 -0.40	45.61 0.88 -0.60	47.00 0.76 1.62	47.30 0.83 2.52	47.15 1.47 0.26	44.49 1.35 0.27	45.14 1.62 -0.95	44.47 1.83 -0.93	47.18 1.90 -1.07	48.71 2.18 -1.15	50.68 2.49 -1.23	57.78 2.83 -1.43	68.64 3.17 -0.81	69.77 3.07 -1.41	60.74 2.60 -0.51	50.50 1.46 -0.39	46.51 1.27 0.15	44.32 1.11 1.12	43.47 1.12 -0.80



NYPA_GOWANUS____GT5 24156	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.68 2.72 -6.99	61.45 2.83 -5.10	70.11 3.04 -2.42	71.03 2.94 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NYPA_GOWANUS____GT6 24157	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	48.93 2.51 -3.84	52.02 2.54 -7.76	47.81 2.52 -1.08	55.23 2.54 -7.31	56.68 2.72 -6.99	61.45 2.83 -5.10	70.11 3.04 -2.42	71.03 2.94 -2.79	63.62 2.31 -3.67	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NYPA_HARLEM__RVR__GT1 24160	45.15 2.11 -0.91	39.28 1.88 -0.54	35.39 1.61 -0.29	33.43 1.43 -0.18	34.73 1.36 -0.24	37.05 1.34 -0.40	46.01 1.28 -0.61	50.19 2.01 -0.33	52.12 1.96 -1.17	49.43 2.25 -1.25	46.72 2.30 -1.00	46.09 2.55 -0.96	45.19 2.54 -0.94	48.04 2.74 -1.08	49.36 2.81 -1.16	51.21 3.01 -1.24	58.25 3.32 -1.42	69.02 3.55 -0.81	70.09 3.39 -1.40	60.90 2.77 -0.50	50.75 1.70 -0.40	48.16 2.22 -0.55	47.58 2.26 -0.99	44.08 1.70 -0.82
NYPA_HARLEM__RVR__GT2 24161	45.15 2.11 -0.91	39.28 1.88 -0.54	35.39 1.61 -0.29	33.43 1.43 -0.18	34.73 1.36 -0.24	37.05 1.34 -0.40	46.01 1.28 -0.61	50.19 2.01 -0.33	52.12 1.96 -1.17	49.43 2.25 -1.25	46.72 2.30 -1.00	46.09 2.55 -0.96	45.19 2.54 -0.94	48.04 2.74 -1.08	49.36 2.81 -1.16	51.21 3.01 -1.24	58.25 3.32 -1.42	69.02 3.55 -0.81	70.09 3.39 -1.40	60.90 2.77 -0.50	50.75 1.70 -0.40	48.16 2.22 -0.55	47.58 2.26 -0.99	44.08 1.70 -0.82
NYPA_KENT____GT 24152	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.02 -0.61	49.66 1.49 -0.32	51.53 1.37 -1.17	48.97 1.79 -1.24	46.63 2.21 -1.00	61.02 2.51 -15.93	80.67 2.54 -36.42	47.81 2.52 -1.08	81.04 2.54 -33.12	80.86 2.77 -31.13	76.95 2.89 -20.55	76.95 3.10 -9.19	76.95 3.01 -8.65	76.95 2.31 -17.01	50.65 1.60 -0.40	47.89 1.95 -0.55	47.22 1.90 -0.99	43.52 1.16 -0.81
NYPA_POUCH1____GT 24155	35.39 1.56 8.31	29.70 1.32 8.48	24.69 1.34 10.15	33.57 1.56 -0.18	34.83 1.46 -0.24	37.19 1.48 -0.40	45.48 0.75 -0.61	47.85 1.24 1.25	47.84 1.08 2.23	47.08 1.56 0.42	46.42 2.00 -1.00	44.46 2.26 0.38	41.81 2.33 2.24	42.32 2.25 4.15	44.81 2.27 2.84	44.63 2.53 4.87	48.90 2.57 7.18	58.75 2.72 8.62	59.86 2.61 8.05	51.63 2.02 8.02	44.17 1.36 5.84	42.41 1.68 4.66	45.71 1.64 0.26	43.28 0.91 -0.81
NYPA_VERNON____GT2 24162	44.98 1.94 -0.90	39.12 1.73 -0.54	35.25 1.47 -0.29	33.30 1.31 -0.18	34.60 1.23 -0.24	37.02 1.31 -0.40	46.10 1.37 -0.61	49.89 1.72 -0.32	51.92 1.76 -1.17	49.19 2.02 -1.24	46.72 2.30 -1.00	46.57 2.47 -1.52	46.47 2.50 -2.26	47.95 2.65 -1.08	50.50 2.77 -2.35	52.23 2.91 -2.35	58.75 3.10 -2.13	69.20 3.42 -1.11	70.22 3.26 -1.67	61.34 2.60 -1.11	50.75 1.70 -0.40	47.99 2.04 -0.55	47.31 2.00 -0.99	43.86 1.49 -0.81
NYPA_VERNON____GT3 24163	44.98 1.94 -0.90	39.12 1.73 -0.54	35.25 1.47 -0.29	33.30 1.31 -0.18	34.60 1.23 -0.24	37.02 1.31 -0.40	46.10 1.37 -0.61	49.89 1.72 -0.32	51.92 1.76 -1.17	49.19 2.02 -1.24	46.72 2.30 -1.00	46.57 2.47 -1.52	46.47 2.50 -2.26	47.95 2.65 -1.08	50.50 2.77 -2.35	52.23 2.91 -2.35	58.75 3.10 -2.13	69.20 3.42 -1.11	70.22 3.26 -1.67	61.34 2.60 -1.11	50.75 1.70 -0.40	47.99 2.04 -0.55	47.31 2.00 -0.99	43.86 1.49 -0.81
NYPA____ASTORIA_CC1 323568	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.85 1.67 -0.32	51.83 1.67 -1.17	49.10 1.93 -1.24	46.63 2.21 -1.00	46.48 2.43 -1.47	46.28 2.42 -2.16	47.86 2.56 -1.08	50.31 2.68 -2.25	52.05 2.82 -2.26	58.64 3.05 -2.08	69.04 3.30 -1.09	70.07 3.13 -1.64	61.17 2.48 -1.06	50.65 1.60 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	43.78 1.41 -0.81
NYPA____ASTORIA_CC2 323569	44.89 1.85 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.85 1.67 -0.32	51.83 1.67 -1.17	49.10 1.93 -1.24	46.63 2.21 -1.00	46.48 2.43 -1.47	46.28 2.42 -2.16	47.86 2.56 -1.08	50.31 2.68 -2.25	52.05 2.82 -2.26	58.64 3.05 -2.08	69.04 3.30 -1.09	70.07 3.13 -1.64	61.17 2.48 -1.06	50.65 1.60 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	43.78 1.41 -0.81
NYPA____HOLTSVILL 23794	44.22 1.18 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.34 0.64 -0.40	44.99 0.27 -0.60	46.33 0.14 1.66	46.58 0.20 2.60	46.51 0.87 0.29	43.94 0.82 0.30	44.63 1.11 -0.95	43.98 1.33 -0.93	46.61 1.33 -1.07	48.08 1.54 -1.15	50.03 1.83 -1.23	57.09 2.14 -1.43	67.73 2.26 -0.81	68.85 2.15 -1.40	60.04 1.90 -0.51	49.87 0.83 -0.39	45.95 0.72 0.16	43.79 0.62 1.16	42.97 0.62 -0.80
NYPA____HELLGATE_GT1 24158	45.15 2.11 -0.91	39.28 1.88 -0.54	35.39 1.61 -0.29	33.43 1.43 -0.18	34.73 1.36 -0.24	37.05 1.34 -0.40	46.01 1.28 -0.61	50.19 2.01 -0.33	52.13 1.96 -1.18	49.43 2.25 -1.25	46.72 2.30 -1.00	46.09 2.55 -0.96	45.19 2.54 -0.94	48.04 2.74 -1.08	49.40 2.86 -1.16	51.21 3.01 -1.24	58.25 3.32 -1.42	69.02 3.55 -0.81	70.16 3.46 -1.40	60.90 2.77 -0.50	50.75 1.70 -0.40	48.16 2.22 -0.55	47.58 2.26 -0.99	44.08 1.70 -0.82
NYPA____HELLGATE_GT2 24159	45.15 2.11 -0.91	39.28 1.88 -0.54	35.39 1.61 -0.29	33.43 1.43 -0.18	34.73 1.36 -0.24	37.05 1.34 -0.40	46.01 1.28 -0.61	50.19 2.01 -0.33	52.13 1.96 -1.18	49.43 2.25 -1.25	46.72 2.30 -1.00	46.09 2.55 -0.96	45.19 2.54 -0.94	48.04 2.74 -1.08	49.40 2.86 -1.16	51.21 3.01 -1.24	58.25 3.32 -1.42	69.02 3.55 -0.81	70.16 3.46 -1.40	60.90 2.77 -0.50	50.75 1.70 -0.40	48.16 2.22 -0.55	47.58 2.26 -0.99	44.08 1.70 -0.82
NYS_BARGE____HYD 23848	43.68 0.34 -1.20	38.06 0.37 -0.83	34.73 0.63 -0.60	33.01 0.70 -0.48	34.59 0.79 -0.66	36.83 0.71 -0.81	46.45 0.31 -2.02	50.43 0.24 -2.34	50.45 -0.24 -1.70	47.52 0.09 -1.49	45.01 0.26 -1.33	44.25 0.38 -1.29	43.45 0.46 -1.28	46.06 0.44 -1.41	47.40 0.55 -1.47	48.26 -0.28 -1.57	54.05 -1.55 -2.10	64.24 -2.71 -2.29	65.54 -2.74 -2.99	57.94 -2.13 -2.44	49.02 -1.41 -1.78	45.71 -1.22 -1.54	45.44 -0.36 -1.47	43.52 0.71 -1.27
OAK ORCHARD____HYD 24046	43.72 0.42 -1.16	38.06 0.41 -0.80	34.57 0.50 -0.58	32.80 0.51 -0.46	34.37 0.60 -0.64	36.65 0.56 -0.78	46.73 0.66 -1.94	50.92 0.81 -2.25	51.26 0.64 -1.64	48.07 0.69 -1.44	45.39 0.69 -1.28	44.59 0.77 -1.24	43.69 0.75 -1.24	46.41 0.84 -1.36	47.66 0.86 -1.41	49.00 0.52 -1.52	55.74 0.16 -2.07	66.79 -0.13 -2.26	68.12 -0.13 -2.95	60.21 0.17 -2.41	50.60 0.20 -1.76	47.05 0.14 -1.52	46.18 0.40 -1.45	43.59 0.79 -1.25



OAKDALE___35_KV_LOAD 356122	44.23 0.55 -1.55	38.40 0.48 -1.07	34.77 0.50 -0.77	32.92 0.48 -0.62	34.52 0.53 -0.85	36.88 0.53 -1.05	47.42 0.71 -2.59	51.58 0.72 -3.01	51.76 0.59 -2.19	48.46 0.60 -1.92	45.73 0.61 -1.71	44.88 0.64 -1.66	43.98 0.63 -1.65	46.73 0.71 -1.81	48.09 0.82 -1.89	49.60 0.61 -2.02	56.59 0.48 -2.60	68.02 0.52 -2.85	69.53 0.52 -3.71	61.18 0.52 -3.03	51.34 0.49 -2.21	47.72 0.41 -1.92	46.73 0.58 -1.82	43.54 0.42 -1.57
OCC_CHEM___DRP 24175	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.32 -0.86 -2.33	49.31 -1.37 -1.70	46.65 -0.78 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.61 -0.38 -1.28	45.35 -0.27 -1.40	46.66 -0.18 -1.46	47.36 -0.17 -1.57	52.87 -2.68 -2.03	63.07 -3.81 -2.22	64.21 -3.98 -2.90	56.66 -3.34 -2.37	48.04 -2.34 -1.73	44.85 -2.04 -1.50	44.65 -1.11 -1.43	42.41 -0.37 -1.23
OH_GEN_PROXY 24063	43.45 0.13 -1.18	37.86 0.19 -0.82	34.52 0.43 -0.59	32.81 0.51 -0.47	34.38 0.60 -0.65	36.60 0.49 -0.80	46.11 0.00 -1.99	50.06 -0.10 -2.30	50.13 -0.54 -1.68	47.14 -0.27 -1.47	44.68 -0.04 -1.31	43.98 0.13 -1.27	43.14 0.17 -1.26	45.78 0.18 -1.39	47.15 0.32 -1.45	48.00 -0.52 -1.55	53.81 -1.76 -2.06	63.94 -2.97 -2.25	65.23 -3.00 -2.94	57.61 -2.42 -2.40	48.74 -1.65 -1.75	45.50 -1.41 -1.52	46.81 -0.62 -3.10	41.64 0.50 0.41
OLIN_CORP_DRP 24177	43.18 -0.17 -1.21	37.62 -0.07 -0.84	34.36 0.27 -0.60	32.66 0.35 -0.48	34.20 0.40 -0.66	36.37 0.25 -0.82	45.88 -0.26 -2.02	49.48 -0.72 -2.35	49.47 -1.22 -1.71	46.84 -0.60 -1.50	44.44 -0.30 -1.33	43.75 -0.13 -1.29	42.83 -0.17 -1.29	45.54 -0.09 -1.41	46.90 0.05 -1.47	47.46 -1.08 -1.58	53.05 -2.51 -2.05	63.34 -3.56 -2.24	64.50 -3.72 -2.92	56.90 -3.11 -2.38	48.25 -2.14 -1.74	45.04 -1.86 -1.51	44.83 -0.93 -1.44	41.88 -0.91 -1.24
OLIN_CORP_DSASP 323712	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.56 -0.62 -2.33	49.56 -1.12 -1.70	46.69 -0.74 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.74 -0.25 -1.28	45.31 -0.31 -1.40	46.62 -0.23 -1.46	47.45 -1.08 -1.57	53.08 -2.51 -2.08	62.99 -3.95 -2.28	64.22 -4.05 -2.97	56.83 -3.23 -2.42	48.08 -2.33 -1.77	44.93 -2.00 -1.53	44.68 -1.11 -1.46	43.60 0.79 -1.26
ONEIDA_HERK_LFGE 323681	44.26 1.14 -0.98	39.76 1.00 -1.91	36.78 0.80 -2.49	35.30 0.70 -2.78	35.21 0.70 -1.38	41.04 0.85 -4.89	51.39 1.32 -5.95	54.68 1.49 -5.35	55.02 1.37 -4.66	48.24 1.06 -1.25	44.88 0.65 -0.81	44.27 0.64 -1.05	42.99 0.50 -0.78	47.83 0.49 -3.13	48.90 0.45 -3.06	50.13 0.47 -2.69	58.73 0.80 -4.42	67.03 1.03 -1.34	69.56 1.43 -2.84	63.78 1.44 -4.70	51.97 1.22 -2.11	48.47 1.09 -1.99	46.16 0.97 -0.86	43.04 0.75 -0.74
ONEIDA___115KV_TB4 55905	44.52 1.14 -1.24	39.25 1.00 -1.40	35.89 0.90 -1.50	34.20 0.83 -1.55	35.05 0.86 -1.05	38.99 0.99 -2.69	49.59 1.50 -3.97	53.45 1.67 -3.93	53.75 1.57 -3.20	48.78 1.29 -1.56	45.71 1.04 -1.25	44.89 0.98 -1.33	43.79 0.88 -1.21	47.42 0.88 -2.33	48.58 0.86 -2.33	50.10 0.89 -2.25	58.05 1.23 -3.31	68.24 1.49 -2.09	70.39 1.89 -3.20	63.14 1.84 -3.66	52.25 1.51 -2.09	48.59 1.32 -1.88	46.91 1.24 -1.34	43.62 0.91 -1.16
ONONDAGA_REF_OCCRA 23987	44.54 0.04 -2.36	38.79 0.04 -1.90	35.16 0.07 -1.60	33.31 0.03 -1.45	34.71 0.10 -1.48	37.91 0.11 -2.49	49.26 0.26 -4.87	53.51 0.33 -5.32	53.32 0.29 -4.03	49.15 0.28 -2.94	46.18 0.22 -2.55	45.28 0.17 -2.53	44.34 0.17 -2.46	47.62 0.22 -3.18	48.84 0.18 -3.27	50.45 0.09 -3.39	58.24 0.16 -4.56	69.10 0.19 -4.25	71.40 0.33 -5.78	63.19 0.35 -5.21	52.47 0.29 -3.52	48.67 0.18 -3.09	47.28 0.22 -2.73	43.95 0.04 -2.35
ONONDAGA___COGEN 23986	45.31 0.08 -3.08	39.26 0.04 -2.36	35.50 0.10 -1.91	33.60 0.10 -1.68	35.12 0.13 -1.85	38.31 0.14 -2.87	50.35 0.26 -5.97	54.82 0.33 -6.63	54.25 0.29 -4.97	50.05 0.28 -3.84	46.99 0.22 -3.36	46.10 0.21 -3.31	45.20 0.25 -3.24	48.45 0.27 -3.97	49.72 0.23 -4.11	51.40 0.14 -4.30	59.38 0.16 -5.71	70.45 0.19 -5.60	73.12 0.33 -7.50	64.48 0.29 -6.55	53.43 0.24 -4.54	49.50 0.14 -3.97	48.14 0.22 -3.59	44.69 0.04 -3.10
ONTARIO___LFGE 23819	46.51 1.98 -2.39	40.46 1.95 -1.66	36.63 1.94 -1.19	34.63 1.85 -0.96	36.54 2.09 -1.32	39.19 2.26 -1.62	50.96 2.83 -4.01	55.80 3.30 -4.65	55.46 3.09 -3.39	51.53 2.62 -2.97	48.32 2.26 -2.65	47.23 2.09 -2.57	46.39 2.13 -2.55	49.40 2.39 -2.80	50.71 2.40 -2.92	52.35 2.25 -3.13	57.27 0.75 -3.01	68.92 0.97 -3.29	70.76 1.18 -4.29	62.34 1.21 -3.50	52.23 1.02 -2.55	48.33 0.72 -2.22	47.37 0.93 -2.11	44.41 1.04 -1.82
ORANGEVILLE_WT_PWR 323706	44.22 0.72 -1.37	38.47 0.66 -0.95	35.01 0.84 -0.68	33.30 0.92 -0.55	34.92 1.03 -0.75	37.29 1.06 -0.93	47.34 0.93 -2.29	51.47 0.96 -2.66	51.41 0.49 -1.94	48.14 0.51 -1.70	45.45 0.52 -1.51	44.56 0.51 -1.47	43.79 0.63 -1.46	46.52 0.71 -1.60	47.87 0.82 -1.67	48.94 0.19 -1.79	54.99 -0.80 -2.28	65.73 -1.42 -2.50	67.38 -1.17 -3.26	59.60 -0.69 -2.65	50.30 -0.29 -1.94	46.76 -0.32 -1.68	46.28 0.35 -1.60	44.01 1.08 -1.38
ORANGEVILLE___ESR 323794	44.22 0.72 -1.37	38.47 0.66 -0.95	35.01 0.84 -0.68	33.30 0.92 -0.55	34.92 1.03 -0.75	37.29 1.06 -0.93	47.34 0.93 -2.29	51.47 0.96 -2.66	51.41 0.49 -1.94	48.14 0.51 -1.70	45.45 0.52 -1.51	44.56 0.51 -1.47	43.79 0.63 -1.46	46.52 0.71 -1.60	47.87 0.82 -1.67	48.94 0.19 -1.79	54.99 -0.80 -2.28	65.73 -1.42 -2.50	67.38 -1.17 -3.26	59.60 -0.69 -2.65	50.30 -0.29 -1.94	46.76 -0.32 -1.68	46.28 0.35 -1.60	44.01 1.08 -1.38
OSWEGATCHIE___HYD 24044	45.50 1.18 -2.18	45.51 1.03 -7.62	45.35 0.84 -11.02	45.28 0.73 -12.72	39.23 0.73 -5.37	58.63 0.88 -22.44	70.35 1.23 -25.00	70.50 1.34 -21.31	69.60 1.27 -19.34	49.80 1.01 -2.85	45.03 0.56 -1.05	45.45 0.51 -2.36	43.14 0.42 -1.01	56.94 0.31 -12.41	57.56 0.27 -11.91	57.00 0.19 -9.85	71.36 0.43 -17.42	66.92 0.51 -1.75	73.86 0.91 -7.65	76.79 1.04 -18.11	56.21 0.92 -6.63	52.94 1.00 -6.55	46.47 1.02 -1.12	43.39 0.87 -0.97
OSWEGO___5 23606	50.29 -0.63 -8.78	42.39 -0.55 -6.09	37.41 -0.47 -4.39	34.87 -0.48 -3.52	37.51 -0.46 -4.84	40.76 -0.49 -5.95	58.29 -0.57 -14.74	64.37 -0.57 -17.09	60.79 -0.64 -12.44	56.26 -0.60 -10.92	52.52 -0.61 -9.72	51.40 -0.60 -9.42	50.49 -0.58 -9.37	53.92 -0.58 -10.28	55.51 -0.59 -10.72	57.77 -0.70 -11.51	67.46 -0.86 -14.81	79.81 -1.04 -16.19	85.43 -0.98 -21.12	73.98 -0.86 -17.21	60.48 -0.73 -12.56	55.61 -0.68 -10.90	54.08 -0.62 -10.38	49.93 -0.58 -8.96
OSWEGO___6 23613	50.29 -0.63 -8.78	42.39 -0.55 -6.09	37.41 -0.47 -4.39	34.87 -0.48 -3.52	37.51 -0.46 -4.84	40.76 -0.49 -5.95	58.29 -0.57 -14.74	64.37 -0.57 -17.09	60.79 -0.64 -12.44	56.26 -0.60 -10.92	52.52 -0.61 -9.72	51.40 -0.60 -9.42	50.49 -0.58 -9.37	53.92 -0.58 -10.28	55.51 -0.59 -10.72	57.77 -0.70 -11.51	67.46 -0.86 -14.81	79.81 -1.04 -16.19	85.43 -0.98 -21.12	73.98 -0.86 -17.21	60.48 -0.73 -12.56	55.61 -0.68 -10.90	54.08 -0.62 -10.38	49.93 -0.58 -8.96



OUTOKUMPU-AB___DRP 24206	44.28 0.93 -1.21	38.58 0.88 -0.84	35.14 1.04 -0.61	33.42 1.11 -0.49	34.99 1.19 -0.67	37.29 1.17 -0.82	46.86 0.71 -2.03	50.54 0.33 -2.36	50.61 -0.10 -1.72	47.81 0.37 -1.51	45.41 0.65 -1.34	44.65 0.77 -1.30	43.71 0.71 -1.29	46.47 0.84 -1.42	47.81 0.95 -1.48	48.55 0.00 -1.59	54.29 -1.28 -2.06	64.78 -2.13 -2.25	65.95 -2.29 -2.94	58.18 -1.84 -2.39	49.33 -1.07 -1.75	45.95 -0.95 -1.52	45.68 -0.09 -1.44	42.92 0.12 -1.25
OXBOW___BTM 323836	44.10 0.76 -1.20	38.43 0.74 -0.83	35.03 0.94 -0.60	33.30 0.99 -0.48	34.89 1.09 -0.66	37.15 1.02 -0.82	46.41 0.27 -2.02	50.24 0.05 -2.34	50.30 -0.39 -1.71	47.39 -0.05 -1.50	44.92 0.17 -1.33	44.17 0.30 -1.29	43.37 0.37 -1.28	45.98 0.35 -1.41	47.31 0.45 -1.47	48.16 -0.38 -1.58	53.89 -1.71 -2.09	63.98 -2.97 -2.29	65.21 -3.07 -2.99	57.70 -2.37 -2.43	48.82 -1.60 -1.78	45.53 -1.41 -1.54	45.27 -0.53 -1.47	43.90 1.08 -1.27
OXBOW___ 24026	44.10 0.76 -1.20	38.43 0.74 -0.83	35.03 0.94 -0.60	33.29 0.99 -0.48	34.86 1.06 -0.66	37.15 1.02 -0.82	46.41 0.26 -2.02	50.00 -0.19 -2.34	50.06 -0.64 -1.71	47.30 -0.14 -1.50	44.92 0.17 -1.33	44.17 0.30 -1.29	43.24 0.25 -1.28	45.98 0.35 -1.41	47.35 0.50 -1.47	48.07 -0.47 -1.58	53.68 -1.87 -2.05	64.05 -2.84 -2.24	65.21 -3.00 -2.92	57.54 -2.48 -2.38	48.78 -1.61 -1.74	45.49 -1.41 -1.51	45.23 -0.53 -1.43	42.75 -0.04 -1.24
OXY_CHEM_DSASP 323612	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.32 -0.86 -2.33	49.31 -1.37 -1.70	46.65 -0.78 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.61 -0.38 -1.28	45.35 -0.27 -1.40	46.66 -0.18 -1.46	47.36 -1.17 -1.57	52.87 -2.68 -2.03	63.07 -3.81 -2.22	64.21 -3.98 -2.90	56.66 -3.34 -2.37	48.04 -2.34 -1.73	44.85 -2.04 -1.50	44.65 -1.11 -1.43	42.41 -0.37 -1.23
OZONE_PARK_ESR 323760	45.52 2.49 -0.90	39.57 2.17 -0.54	35.62 1.84 -0.29	33.56 1.56 -0.18	34.87 1.49 -0.24	37.37 1.66 -0.40	46.76 2.03 -0.61	50.42 2.25 -0.32	52.56 2.40 -1.17	49.61 2.43 -1.24	47.24 2.82 -1.00	46.48 2.94 -0.96	45.78 3.13 -0.94	48.43 3.14 -1.08	49.85 3.31 -1.16	51.82 3.62 -1.24	58.89 3.96 -1.42	69.92 4.46 -0.80	71.00 4.31 -1.40	61.71 3.57 -0.50	51.48 2.43 -0.40	48.53 2.59 -0.55	47.84 2.53 -0.99	44.73 2.37 -0.81
PACKARD_115_KV_ADAMS_187_REV_LBMP_A 345013	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.32 -0.86 -2.33	49.31 -1.37 -1.70	46.65 -0.78 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.61 -0.38 -1.28	45.35 -0.27 -1.40	46.66 -0.18 -1.46	47.36 -1.17 -1.57	52.87 -2.68 -2.03	63.07 -3.81 -2.22	64.21 -3.98 -2.90	56.66 -3.34 -2.37	48.04 -2.34 -1.73	44.85 -2.04 -1.50	44.65 -1.11 -1.43	42.41 -0.37 -1.23
PACKARD__115KV_DUPONT_184 80571	43.80 0.46 -1.20	38.13 0.44 -0.83	34.79 0.70 -0.60	33.07 0.76 -0.48	34.65 0.86 -0.66	36.89 0.78 -0.81	45.82 -0.31 -2.01	49.32 -0.86 -2.33	49.31 -1.37 -1.70	46.65 -0.78 -1.49	44.22 -0.52 -1.33	43.52 -0.34 -1.28	42.61 -0.38 -1.28	45.35 -0.27 -1.40	46.66 -0.18 -1.46	47.36 -1.17 -1.57	52.87 -2.68 -2.03	63.07 -3.81 -2.22	64.21 -3.98 -2.90	56.66 -3.34 -2.37	48.04 -2.34 -1.73	44.85 -2.04 -1.50	44.65 -1.11 -1.43	42.41 -0.37 -1.23
PARKCHTR_138_KV_TB2S_REV_LBMP_J 345007	45.07 2.02 -0.91	39.24 1.84 -0.54	35.36 1.57 -0.29	33.40 1.40 -0.18	34.67 1.29 -0.24	37.01 1.31 -0.40	46.06 1.32 -0.61	49.90 1.72 -0.33	51.93 1.76 -1.17	49.21 2.02 -1.25	46.67 2.26 -1.00	46.01 2.47 -0.96	45.32 2.67 -0.94	47.90 2.61 -1.08	49.17 2.63 -1.16	51.12 2.91 -1.24	58.14 3.21 -1.42	68.89 3.43 -0.81	70.03 3.33 -1.40	60.78 2.65 -0.50	50.61 1.56 -0.40	48.03 2.09 -0.55	47.40 2.08 -0.99	44.41 2.04 -0.82
PARKCHTR_13_KV_CPCTY_REV_LBMP_J 345019	45.62 2.57 -0.91	39.68 2.28 -0.54	35.79 2.01 -0.29	33.78 1.78 -0.18	35.10 1.72 -0.24	37.44 1.73 -0.40	46.59 1.85 -0.61	50.48 2.30 -0.33	52.51 2.35 -1.17	49.71 2.53 -1.25	47.15 2.74 -1.00	46.44 2.90 -0.96	45.74 3.09 -0.94	48.39 3.10 -1.08	49.67 3.13 -1.16	51.63 3.43 -1.24	58.73 3.80 -1.42	69.61 4.14 -0.81	70.68 3.98 -1.40	61.42 3.29 -0.50	51.09 2.04 -0.40	48.53 2.59 -0.55	47.89 2.57 -0.99	44.86 2.49 -0.82
PATROON__115KV_TB1 80586	41.43 -0.08 0.63	36.44 -0.04 0.37	33.22 -0.07 0.20	31.64 -0.06 0.12	32.93 -0.03 0.17	34.99 -0.04 0.28	43.60 -0.09 0.43	47.67 0.05 0.23	48.17 0.00 0.82	44.98 -0.09 0.87	42.50 -0.22 0.70	41.65 -0.26 0.67	40.80 -0.25 0.66	43.20 -0.27 0.75	44.39 -0.18 0.81	46.05 -0.05 0.87	52.52 0.00 0.99	62.05 0.00 2.61	57.00 0.00 8.29	52.93 -0.12 4.58	48.27 -0.10 0.28	45.01 0.00 0.38	43.51 -0.13 0.69	41.02 0.04 0.57
PATTRSNVILLE___SOLAR 323815	42.66 1.05 0.53	37.46 0.92 0.32	34.12 0.80 0.17	32.48 0.76 0.10	33.82 0.83 0.14	35.95 0.88 0.24	44.95 1.19 0.36	49.00 1.34 0.19	49.32 1.03 0.70	45.84 0.64 0.74	43.16 0.35 0.60	42.18 0.17 0.57	41.23 0.08 0.56	43.75 0.18 0.64	44.97 0.27 0.69	46.74 0.52 0.74	53.52 0.85 0.85	65.99 1.49 0.16	67.43 1.83 -0.31	59.61 1.61 -0.36	49.82 1.41 0.24	46.43 1.36 0.33	44.94 1.20 0.59	41.98 0.91 0.48
PAVMNTRD_115_KV_BK1_REV_LBMP_A 345030	43.97 0.59 -1.24	38.31 0.59 -0.86	34.82 0.70 -0.62	33.12 0.80 -0.50	34.71 0.89 -0.69	37.03 0.88 -0.84	47.00 0.79 -2.09	50.94 0.67 -2.42	50.95 0.20 -1.76	48.08 0.60 -1.55	45.62 0.82 -1.38	44.89 0.98 -1.34	43.95 0.92 -1.33	46.73 1.06 -1.46	48.22 1.32 -1.52	48.97 0.38 -1.63	54.83 -0.80 -2.12	65.49 -1.49 -2.32	66.76 -1.57 -3.03	58.89 -1.21 -2.47	49.82 -0.63 -1.80	46.27 -0.68 -1.56	45.91 0.09 -1.49	42.71 -0.12 -1.28
PAWLING_115_KV_BK3_REV_LBMP_H 345028	44.73 1.81 -0.78	38.90 1.58 -0.46	35.05 1.31 -0.25	33.12 1.15 -0.15	34.47 1.13 -0.21	36.96 1.31 -0.35	46.24 1.59 -0.53	49.85 1.72 -0.28	51.81 1.81 -1.01	48.80 1.79 -1.07	46.36 2.08 -0.87	45.45 2.04 -0.83	44.61 2.09 -0.81	47.36 2.21 -0.93	48.74 2.36 -1.00	50.71 2.68 -1.07	57.63 2.89 -1.23	68.65 3.30 -0.69	69.70 3.20 -1.20	60.71 2.65 -0.43	50.94 1.95 -0.35	47.95 2.09 -0.47	47.08 1.91 -0.85	44.04 1.79 -0.70
PEEKSKILL___ 23653	44.59 1.56 -0.89	38.71 1.32 -0.53	34.88 1.10 -0.29	32.92 0.92 -0.17	34.27 0.89 -0.24	36.73 1.02 -0.40	45.92 1.19 -0.60	49.51 1.34 -0.32	51.57 1.42 -1.16	48.72 1.56 -1.22	46.14 1.74 -0.99	45.36 1.83 -0.95	44.51 1.88 -0.93	47.36 2.08 -1.06	48.79 2.27 -1.14	50.63 2.44 -1.22	57.53 2.62 -1.40	68.36 2.91 -0.79	69.48 2.81 -1.38	60.37 2.25 -0.49	50.60 1.56 -0.40	47.61 1.68 -0.54	46.85 1.55 -0.97	43.51 1.16 -0.80
PGE MADISON___WINDPWR 24146	46.91 3.20 -1.57	40.71 2.76 -1.09	36.79 2.51 -0.78	34.74 2.29 -0.63	36.35 2.35 -0.86	39.05 2.68 -1.06	50.64 3.88 -2.63	55.21 4.31 -3.05	55.28 4.07 -2.22	51.29 3.40 -1.95	47.97 2.82 -1.74	46.95 2.68 -1.68	45.72 2.34 -1.67	48.31 2.25 -1.84	49.61 2.31 -1.92	51.37 2.35 -2.06	59.36 3.21 -2.64	71.75 4.20 -2.89	74.35 5.29 -3.77	65.78 5.07 -3.07	55.22 4.33 -2.24	51.10 3.77 -1.94	49.90 3.72 -1.85	46.06 2.91 -1.60



PIERCEFIELD___HYD 23852	45.40 0.93 -2.33	48.29 0.81 -10.62	50.00 0.70 -15.81	50.86 0.64 -18.40	41.23 0.66 -7.43	68.58 0.78 -32.49	80.39 0.88 -35.38	78.46 0.91 -29.70	77.23 0.98 -27.26	49.91 0.87 -3.10	44.67 0.69 -0.56	45.74 0.64 -2.52	42.80 0.54 -0.54	62.05 0.57 -17.26	62.31 0.45 -16.48	60.75 0.42 -13.36	78.25 0.54 -24.20	66.18 0.58 -0.94	75.10 0.65 -9.15	83.30 0.69 -24.98	57.90 0.73 -8.52	54.77 0.82 -8.56	45.82 0.89 -0.60	42.94 0.87 -0.52
PINELAWN_CC_1 323563	44.51 1.47 -0.90	38.53 1.14 -0.54	34.55 0.77 -0.28	32.57 0.57 -0.17	33.87 0.50 -0.24	36.66 0.95 -0.40	45.39 0.66 -0.61	47.06 0.62 1.41	47.53 0.69 2.14	47.12 1.28 0.10	44.48 1.21 0.15	44.98 1.45 -0.95	44.27 1.63 -0.93	46.65 1.37 -1.07	48.08 1.54 -1.15	50.03 1.83 -1.23	56.82 1.87 -1.44	67.54 2.07 -0.81	68.66 1.96 -1.41	59.75 1.61 -0.51	49.87 0.83 -0.39	46.14 0.82 0.07	44.43 1.02 0.92	43.22 0.87 -0.80
PJM_GEN_HTTP_PROXY 323702	44.98 1.94 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.02 1.31 -0.40	46.28 1.54 -0.61	49.94 1.77 -0.32	52.02 1.86 -1.17	49.19 2.02 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.11 2.46 -0.94	47.90 2.61 -1.08	49.31 2.77 -1.16	51.21 3.01 -1.24	58.14 3.21 -1.42	69.01 3.55 -0.80	70.15 3.46 -1.40	60.90 2.77 -0.50	50.95 1.90 -0.40	47.99 2.04 -0.55	48.92 1.95 -2.64	42.20 1.49 0.84
PJM_GEN_KEystone 24065	43.43 0.72 -0.58	37.69 0.66 -0.17	33.93 0.63 0.20	32.82 0.60 -0.40	34.28 0.60 -0.54	36.67 0.64 -0.72	46.33 0.62 -1.60	50.07 0.67 -1.55	50.92 0.49 -1.44	48.00 0.60 -1.46	45.55 0.78 -1.36	44.69 0.90 -1.21	43.74 0.96 -1.07	46.44 1.15 -1.08	47.99 1.36 -1.24	49.20 1.03 -1.21	55.47 0.54 -1.42	66.09 0.26 -1.17	67.40 0.20 -1.91	59.04 0.23 -1.17	49.62 0.10 -0.87	46.45 0.18 -0.88	47.75 0.44 -2.98	41.76 0.66 0.45
PJM_GEN_NEPTUNE_PROXY 323594	44.18 1.14 -0.90	38.27 0.88 -0.54	34.38 0.60 -0.28	32.40 0.41 -0.17	33.70 0.33 -0.23	36.41 0.71 -0.40	45.12 0.40 -0.60	46.46 0.43 1.82	46.58 0.49 2.90	46.67 1.15 0.42	44.10 1.09 0.40	44.80 1.28 -0.95	44.02 1.37 -0.93	46.78 1.50 -1.07	48.21 1.68 -1.15	50.12 1.93 -1.23	57.03 2.08 -1.43	67.79 2.32 -0.81	68.85 2.15 -1.40	59.93 1.79 -0.51	49.97 0.92 -0.39	46.12 0.95 0.23	45.46 0.80 -0.33	41.23 0.54 0.86
PJM_GEN_VFT_PROXY 323633	35.59 1.77 8.32	29.91 1.55 8.49	24.61 1.27 10.15	33.05 1.05 -0.18	34.29 0.93 -0.23	36.76 1.06 -0.39	45.96 1.23 -0.60	48.03 1.43 1.25	48.27 1.52 2.24	47.21 1.70 0.43	46.41 2.00 -0.99	43.87 2.09 0.79	40.67 2.17 3.21	42.35 2.30 4.16	44.12 2.45 3.72	43.95 2.68 5.69	48.64 2.83 7.70	58.90 3.10 8.86	60.05 3.01 8.25	51.52 2.36 8.47	44.36 1.56 5.85	42.45 1.72 4.67	47.40 1.68 -1.39	41.91 1.21 0.85
PLATSBURG_115KV_PMLD1 355749	43.41 1.14 -0.14	38.52 0.88 -0.78	35.51 0.84 -1.18	34.00 0.80 -1.38	34.51 0.83 -0.54	38.74 0.99 -2.44	46.70 -0.04 -2.63	49.56 -0.48 -2.18	50.86 -0.15 -2.02	46.08 -0.05 -0.19	43.28 -0.13 0.00	42.43 -0.30 -0.15	41.17 -0.54 0.00	45.30 -0.18 -1.27	45.41 -1.18 -1.21	46.66 -1.27 -0.97	54.16 -1.12 -1.78	64.01 -0.65 0.00	65.64 -0.26 -0.60	59.57 0.12 -1.82	49.44 0.19 -0.59	46.18 0.18 -0.60	44.59 0.27 0.00	42.63 1.08 0.00
PLEASANTVLY___LBMP 24000	44.23 1.10 -0.99	38.41 0.96 -0.59	34.58 0.77 -0.32	32.65 0.64 -0.19	34.00 0.60 -0.27	36.46 0.71 -0.44	45.59 0.79 -0.68	49.07 0.86 -0.36	51.17 0.88 -1.30	48.27 0.96 -1.37	45.74 1.22 -1.11	44.92 1.28 -1.06	44.17 1.42 -1.04	46.82 1.41 -1.19	48.21 1.54 -1.28	50.12 1.78 -1.37	56.96 1.87 -1.57	67.61 2.07 -0.89	68.80 1.96 -1.54	59.74 1.56 -0.55	50.07 0.97 -0.44	47.13 1.13 -0.61	46.48 1.06 -1.09	43.53 1.08 -0.90
PLSNTVLE_13_KV_13.8KVDIST 80602	44.81 1.77 -0.91	38.94 1.55 -0.54	35.06 1.27 -0.29	33.11 1.11 -0.18	34.40 1.03 -0.24	36.95 1.24 -0.40	46.19 1.46 -0.62	49.75 1.58 -0.32	51.84 1.67 -1.18	48.93 1.75 -1.25	46.47 2.04 -1.01	45.68 2.13 -0.97	44.91 2.25 -0.95	47.60 2.30 -1.09	49.00 2.45 -1.17	50.89 2.68 -1.25	57.89 2.94 -1.43	68.63 3.17 -0.81	69.83 3.13 -1.41	60.67 2.54 -0.50	50.76 1.70 -0.41	47.81 1.86 -0.55	47.09 1.77 -0.99	44.07 1.70 -0.82
PLSNTVLE_13_KV_13KVDISA_REV_LBMP_I 345020	44.81 1.77 -0.91	38.94 1.55 -0.54	35.06 1.27 -0.29	33.11 1.11 -0.18	34.40 1.03 -0.24	36.95 1.24 -0.40	46.19 1.46 -0.62	49.75 1.58 -0.32	51.84 1.67 -1.18	48.93 1.75 -1.25	46.47 2.04 -1.01	45.68 2.13 -0.97	44.91 2.25 -0.95	47.60 2.30 -1.09	49.00 2.45 -1.17	50.89 2.68 -1.25	57.89 2.94 -1.43	68.63 3.17 -0.81	69.83 3.13 -1.41	60.67 2.54 -0.50	50.76 1.70 -0.41	47.81 1.86 -0.55	47.09 1.77 -0.99	44.07 1.70 -0.82
PLSTVYCH_69_KV_RQ-3_RG2_REV_LBMP_G 345023	43.23 1.39 0.30	37.89 1.22 0.18	34.37 0.97 0.10	32.63 0.86 0.06	33.88 0.83 0.08	36.13 0.95 0.13	45.11 1.19 0.20	48.99 1.24 0.11	49.87 1.27 0.39	46.77 1.24 0.41	44.56 1.48 0.33	43.71 1.45 0.32	42.98 1.58 0.31	45.49 1.64 0.36	46.81 1.82 0.39	48.66 2.11 0.41	55.28 2.25 0.47	67.04 2.65 0.27	67.44 2.61 0.47	59.54 2.07 0.17	49.98 1.46 0.13	46.80 1.59 0.18	45.51 1.51 0.33	42.73 1.45 0.27
POLETTI_____ 23519	26.26 1.69 17.57	26.26 1.51 12.11	26.26 1.27 8.50	26.29 1.15 6.68	26.26 1.03 7.90	26.26 0.99 10.03	27.01 0.93 18.03	28.81 1.44 20.48	29.14 1.47 21.32	28.08 1.75 19.61	28.53 1.87 16.75	28.16 2.09 16.51	27.63 2.34 16.42	29.51 2.25 16.96	30.31 2.27 17.35	31.08 2.54 18.42	37.46 2.84 18.88	47.72 2.97 19.91	48.81 2.81 19.30	40.35 2.25 19.53	33.08 1.17 16.73	30.44 1.77 16.72	29.94 1.86 16.25	27.97 1.83 15.40
POMONA___ESR 323819	44.55 1.56 -0.85	38.73 1.36 -0.51	34.87 1.10 -0.28	32.94 0.95 -0.17	34.26 0.89 -0.23	36.75 1.06 -0.38	45.94 1.23 -0.58	49.55 1.39 -0.31	51.57 1.47 -1.12	48.68 1.56 -1.18	46.15 1.78 -0.95	45.32 1.83 -0.91	44.52 1.92 -0.89	47.36 2.12 -1.03	48.80 2.31 -1.10	50.63 2.49 -1.18	57.48 2.62 -1.35	68.39 2.98 -0.76	69.49 2.87 -1.33	60.47 2.36 -0.47	50.63 1.60 -0.38	47.64 1.72 -0.52	46.86 1.59 -0.94	43.57 1.25 -0.77
PORT_JEFF_3 23555	44.26 1.22 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.38 0.67 -0.40	45.04 0.31 -0.60	46.38 0.19 1.66	46.64 0.25 2.60	46.56 0.92 0.29	43.98 0.87 0.30	44.68 1.15 -0.95	44.02 1.37 -0.93	46.65 1.37 -1.07	48.08 1.54 -1.15	49.89 1.69 -1.23	56.98 2.03 -1.43	67.47 2.01 -0.81	68.59 1.89 -1.40	59.93 1.79 -0.51	49.82 0.78 -0.39	46.00 0.77 0.16	43.84 0.67 1.16	43.01 0.66 -0.80
PORT_JEFF_4 23616	44.26 1.22 -0.90	38.24 0.85 -0.54	34.24 0.47 -0.28	32.25 0.25 -0.17	33.53 0.17 -0.23	36.38 0.67 -0.40	45.04 0.31 -0.60	46.38 0.19 1.66	46.64 0.25 2.60	46.56 0.92 0.29	43.98 0.87 0.30	44.68 1.15 -0.95	44.02 1.37 -0.93	46.65 1.37 -1.07	48.08 1.54 -1.15	49.89 1.69 -1.23	56.98 2.03 -1.43	67.47 2.01 -0.81	68.59 1.89 -1.40	59.93 1.79 -0.51	49.82 0.78 -0.39	46.00 0.77 0.16	43.84 0.67 1.16	43.01 0.66 -0.80



PORT_JEFF_IC 23713	44.30 1.26 -0.90	38.31 0.92 -0.54	34.31 0.54 -0.28	32.31 0.32 -0.17	33.60 0.23 -0.23	36.45 0.74 -0.40	45.12 0.40 -0.60	46.39 0.19 1.65	46.65 0.24 2.58	46.07 0.41 0.28	44.08 0.96 0.29	44.72 1.19 -0.95	44.18 1.54 -0.93	46.65 1.37 -1.07	48.12 1.59 -1.15	50.03 1.83 -1.23	57.19 2.25 -1.43	67.41 1.94 -0.81	68.59 1.89 -1.40	60.10 1.96 -0.51	49.73 0.68 -0.39	46.05 0.82 0.16	43.89 0.71 1.15	43.35 1.00 -0.80
PPL PILGRIM_ST_GT1 24216	44.77 1.73 -0.90	38.72 1.32 -0.54	34.71 0.94 -0.28	32.69 0.70 -0.17	34.00 0.63 -0.23	36.84 1.13 -0.40	45.61 0.88 -0.60	47.00 0.76 1.62	47.30 0.83 2.52	47.15 1.47 0.26	44.49 1.35 0.27	45.14 1.62 -0.95	44.47 1.83 -0.93	47.18 1.90 -1.07	48.71 2.18 -1.15	50.68 2.49 -1.23	57.78 2.83 -1.43	68.64 3.17 -0.81	69.77 3.07 -1.41	60.74 2.60 -0.51	50.50 1.46 -0.39	46.51 1.27 0.15	44.32 1.11 1.12	43.47 1.12 -0.80
PPL PILGRIM_ST_GT2 24217	44.77 1.73 -0.90	38.72 1.32 -0.54	34.71 0.94 -0.28	32.69 0.70 -0.17	34.00 0.63 -0.23	36.84 1.13 -0.40	45.61 0.88 -0.60	47.00 0.76 1.62	47.30 0.83 2.52	47.15 1.47 0.26	44.49 1.35 0.27	45.14 1.62 -0.95	44.47 1.83 -0.93	47.18 1.90 -1.07	48.71 2.18 -1.15	50.68 2.49 -1.23	57.78 2.83 -1.43	68.64 3.17 -0.81	69.77 3.07 -1.41	60.74 2.60 -0.51	50.50 1.46 -0.39	46.51 1.27 0.15	44.32 1.11 1.12	43.47 1.12 -0.80
PPL_SHRM_GT3 24213	43.80 0.76 -0.90	37.80 0.41 -0.54	33.84 0.07 -0.28	31.83 -0.16 -0.17	33.10 -0.27 -0.23	35.99 0.28 -0.40	44.51 -0.22 -0.60	45.81 -0.38 1.65	46.06 -0.34 2.59	46.02 0.37 0.29	43.55 0.43 0.30	44.25 0.72 -0.95	43.64 1.00 -0.93	46.30 1.02 -1.07	47.76 1.23 -1.15	49.74 1.55 -1.23	56.87 1.92 -1.43	67.60 2.13 -0.81	68.79 2.09 -1.40	59.93 1.79 -0.51	49.67 0.63 -0.39	45.73 0.50 0.16	43.44 0.27 1.15	42.64 0.29 -0.80
PPL_SHRM_GT4 24214	43.80 0.76 -0.90	37.80 0.41 -0.54	33.84 0.07 -0.28	31.83 -0.16 -0.17	33.10 -0.27 -0.23	35.99 0.28 -0.40	44.51 -0.22 -0.60	45.81 -0.38 1.65	46.06 -0.34 2.59	46.02 0.37 0.29	43.55 0.43 0.30	44.25 0.72 -0.95	43.64 1.00 -0.93	46.30 1.02 -1.07	47.76 1.23 -1.15	49.74 1.55 -1.23	56.87 1.92 -1.43	67.60 2.13 -0.81	68.79 2.09 -1.40	59.93 1.79 -0.51	49.67 0.63 -0.39	45.73 0.50 0.16	43.44 0.27 1.15	42.64 0.29 -0.80
PROJECT___ORANGE 1 24174	44.12 -0.17 -2.15	38.47 -0.15 -1.76	34.93 -0.07 -1.51	33.11 -0.10 -1.38	34.44 -0.07 -1.37	37.61 -0.07 -2.37	48.67 0.00 -4.55	52.83 0.05 -4.94	52.75 0.00 -3.76	48.67 0.05 -2.69	45.74 0.00 -2.32	44.89 0.00 -2.31	43.99 0.04 -2.24	47.21 0.04 -2.95	48.46 0.05 -3.03	50.00 -0.09 -3.13	57.64 -0.11 -4.23	68.40 -0.13 -3.87	70.51 -0.07 -5.28	62.40 -0.06 -4.83	51.83 -0.05 -3.23	48.14 -0.09 -2.84	46.77 -0.04 -2.48	43.53 -0.17 -2.14
PROJECT___ORANGE 2 24166	44.12 -0.17 -2.15	38.47 -0.15 -1.76	34.93 -0.07 -1.51	33.11 -0.10 -1.38	34.44 -0.07 -1.37	37.61 -0.07 -2.37	48.67 0.00 -4.55	52.83 0.05 -4.94	52.75 0.00 -3.76	48.67 0.05 -2.69	45.74 0.00 -2.32	44.89 0.00 -2.31	43.99 0.04 -2.24	47.21 0.04 -2.95	48.46 0.05 -3.03	50.00 -0.09 -3.13	57.64 -0.11 -4.23	68.40 -0.13 -3.87	70.51 -0.07 -5.28	62.40 -0.06 -4.83	51.83 -0.05 -3.23	48.14 -0.09 -2.84	46.77 -0.04 -2.48	43.53 -0.17 -2.14
PUCKETT___SOLAR 323809	44.81 1.18 -1.50	38.92 1.03 -1.04	35.24 1.00 -0.75	33.38 0.95 -0.60	34.95 0.99 -0.82	37.42 1.10 -1.01	48.13 1.50 -2.51	52.44 1.67 -2.91	52.63 1.52 -2.12	49.04 1.24 -1.86	46.11 1.04 -1.65	45.16 0.98 -1.60	44.22 0.92 -1.60	46.94 0.97 -1.75	48.25 1.04 -1.83	49.86 0.94 -1.96	57.05 1.07 -2.47	68.78 1.42 -2.70	70.59 1.76 -3.53	62.18 1.67 -2.88	52.21 1.46 -2.10	48.48 1.27 -1.82	47.39 1.33 -1.73	44.25 1.21 -1.50
PYRITES___HYD 24023	46.02 1.47 -2.40	49.36 1.29 -11.21	51.35 1.14 -16.72	52.35 1.05 -19.47	42.03 1.06 -7.84	70.89 1.20 -34.38	83.00 1.50 -37.38	80.77 1.58 -31.34	79.30 1.52 -28.80	50.38 1.24 -3.20	44.94 1.00 -0.52	46.12 0.94 -2.60	43.01 0.79 -0.51	63.27 0.84 -18.21	63.53 0.77 -17.38	61.83 0.80 -14.07	80.17 1.12 -25.54	67.02 1.49 -0.87	76.66 1.83 -9.54	85.76 1.79 -26.34	59.18 1.61 -8.93	55.88 1.50 -8.99	46.35 1.46 -0.56	43.41 1.37 -0.48
QUAKERRD_115KV_BK1 80622	42.66 -0.63 -1.15	37.14 -0.52 -0.80	33.70 -0.37 -0.58	31.94 -0.35 -0.46	33.47 -0.30 -0.64	35.74 -0.35 -0.78	45.62 -0.44 -1.94	49.62 -0.48 -2.25	49.99 -0.64 -1.63	46.91 -0.46 -1.44	44.34 -0.35 -1.28	43.52 -0.30 -1.24	42.65 -0.29 -1.23	45.30 -0.27 -1.35	46.52 -0.27 -1.41	47.87 -0.61 -1.51	54.44 -1.02 -1.95	65.50 -1.29 -2.13	66.70 -1.37 -2.78	58.86 -1.04 -2.27	49.48 -0.83 -1.65	46.01 -0.82 -1.44	45.07 -0.62 -1.37	41.94 -0.79 -1.18
QUENSBRY_115KV_TB8 356137	42.45 1.05 0.74	37.37 0.96 0.44	34.19 0.94 0.24	32.54 0.86 0.14	33.93 0.99 0.20	35.93 0.95 0.33	44.89 1.28 0.51	49.12 1.53 0.27	49.24 1.22 0.97	45.83 0.92 1.02	43.24 0.65 0.83	42.30 0.51 0.79	41.22 0.29 0.78	43.72 0.40 0.89	44.88 0.45 0.96	46.55 0.61 1.03	53.46 1.12 1.17	67.69 1.75 -1.29	73.26 2.15 -5.81	62.98 1.73 -3.62	49.97 1.65 0.33	46.57 1.63 0.45	44.76 1.24 0.81	41.92 1.04 0.67
RAMAPO___LBMP 323565	44.37 1.39 -0.84	38.57 1.22 -0.50	34.74 0.97 -0.27	32.85 0.86 -0.16	34.16 0.80 -0.23	36.60 0.92 -0.38	45.80 1.10 -0.57	49.30 1.15 -0.30	51.31 1.22 -1.10	48.38 1.29 -1.16	45.92 1.56 -0.94	45.14 1.66 -0.90	44.38 1.79 -0.88	47.08 1.86 -1.01	48.51 2.04 -1.09	50.38 2.25 -1.16	57.20 2.35 -1.33	68.06 2.65 -0.75	69.15 2.55 -1.31	60.12 2.02 -0.47	50.34 1.31 -0.38	47.36 1.45 -0.51	46.67 1.42 -0.92	43.68 1.37 -0.76
RANKINE____ 23646	44.22 0.84 -1.24	38.52 0.81 -0.86	35.08 0.97 -0.62	33.34 1.02 -0.50	34.94 1.13 -0.68	37.27 1.13 -0.84	47.17 0.97 -2.08	51.03 0.77 -2.41	51.04 0.29 -1.75	48.21 0.74 -1.54	45.74 0.96 -1.37	44.97 1.06 -1.33	44.03 1.00 -1.32	46.81 1.15 -1.45	48.21 1.32 -1.51	49.01 0.42 -1.62	54.87 -0.75 -2.11	65.54 -1.42 -2.31	66.80 -1.50 -3.01	58.93 -1.15 -2.45	49.86 -0.58 -1.79	46.40 -0.54 -1.55	46.07 0.27 -1.48	42.95 0.12 -1.28
RAVENSWOOD_GT2_1 24244	44.98 1.94 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.80 1.63 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.80 1.75 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT2_2 24245	44.98 1.94 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.80 1.63 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.80 1.75 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81



RAVENSWOOD_GT2_3 24246	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.24 1.24 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.11 1.93 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.23 2.59 -0.94	47.86 2.56 -1.08	49.22 2.68 -1.16	51.16 2.96 -1.24	58.14 3.21 -1.42	68.95 3.49 -0.80	70.08 3.40 -1.40	60.90 2.77 -0.50	50.85 1.80 -0.40	47.94 2.00 -0.55	47.31 1.99 -0.99	44.27 1.91 -0.81
RAVENSWOOD_GT2_4 24247	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.24 1.24 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.11 1.93 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.23 2.59 -0.94	47.86 2.56 -1.08	49.22 2.68 -1.16	51.16 2.96 -1.24	58.14 3.21 -1.42	68.95 3.49 -0.80	70.08 3.40 -1.40	60.90 2.77 -0.50	50.85 1.80 -0.40	47.94 2.00 -0.55	47.31 1.99 -0.99	44.27 1.91 -0.81
RAVENSWOOD_GT3_1 24248	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.80 1.75 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT3_2 24249	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.80 1.75 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT3_3 24250	45.06 2.02 -0.90	39.16 1.77 -0.54	35.29 1.51 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.05 1.34 -0.40	46.32 1.59 -0.61	49.90 1.72 -0.32	52.03 1.86 -1.17	49.15 1.98 -1.24	46.76 2.34 -1.00	46.01 2.47 -0.96	45.28 2.63 -0.94	47.90 2.61 -1.08	49.31 2.77 -1.16	51.21 3.01 -1.24	58.20 3.26 -1.42	69.08 3.62 -0.80	70.15 3.46 -1.40	60.96 2.82 -0.50	50.90 1.85 -0.40	47.98 2.04 -0.55	47.35 2.04 -0.99	44.32 1.95 -0.81
RAVENSWOOD_GT3_4 24251	45.06 2.02 -0.90	39.16 1.77 -0.54	35.29 1.51 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.05 1.34 -0.40	46.32 1.59 -0.61	49.90 1.72 -0.32	52.03 1.86 -1.17	49.15 1.98 -1.24	46.76 2.34 -1.00	46.01 2.47 -0.96	45.28 2.63 -0.94	47.90 2.61 -1.08	49.31 2.77 -1.16	51.21 3.01 -1.24	58.20 3.26 -1.42	69.08 3.62 -0.80	70.15 3.46 -1.40	60.96 2.82 -0.50	50.90 1.85 -0.40	47.98 2.04 -0.55	47.35 2.04 -0.99	44.32 1.95 -0.81
RAVENSWOOD_GT_1 23729	44.98 1.94 -0.90	39.12 1.73 -0.54	35.26 1.47 -0.29	33.30 1.30 -0.18	34.60 1.23 -0.24	37.01 1.31 -0.40	46.10 1.37 -0.61	49.80 1.63 -0.32	51.88 1.71 -1.17	49.11 1.93 -1.24	46.72 2.30 -1.00	46.57 2.47 -1.52	46.60 2.63 -2.26	47.90 2.61 -1.08	50.36 2.63 -2.35	52.23 2.91 -2.35	58.75 3.10 -2.13	69.13 3.36 -1.11	70.16 3.20 -1.67	61.34 2.59 -1.11	50.66 1.61 -0.40	47.94 2.00 -0.55	47.31 1.99 -0.99	44.32 1.95 -0.81
RAVENSWOOD_GT_10 24258	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.85 1.80 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT_11 24259	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.85 1.80 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT_4 24252	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.01 1.31 -0.40	46.28 1.54 -0.61	49.85 1.67 -0.32	51.98 1.81 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.37 2.38 -0.40	43.87 2.54 0.38	47.81 2.52 -1.08	48.07 2.72 0.03	50.05 2.96 -0.13	57.43 3.21 -0.71	68.70 3.56 -0.49	69.81 3.40 -1.13	60.28 2.77 0.12	50.90 1.85 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT_5 24254	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.01 1.31 -0.40	46.28 1.54 -0.61	49.85 1.67 -0.32	51.98 1.81 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.37 2.38 -0.40	43.87 2.54 0.38	47.81 2.52 -1.08	48.07 2.72 0.03	50.05 2.96 -0.13	57.43 3.21 -0.71	68.70 3.56 -0.49	69.81 3.40 -1.13	60.28 2.77 0.12	50.90 1.85 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT_6 24253	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.01 1.31 -0.40	46.28 1.54 -0.61	49.85 1.67 -0.32	51.98 1.81 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.37 2.38 -0.40	43.87 2.54 0.38	47.81 2.52 -1.08	48.07 2.72 0.03	50.05 2.96 -0.13	57.43 3.21 -0.71	68.70 3.56 -0.49	69.81 3.40 -1.13	60.28 2.77 0.12	50.90 1.85 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT_7 24255	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.01 1.31 -0.40	46.28 1.54 -0.61	49.85 1.67 -0.32	51.98 1.81 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.37 2.38 -0.40	43.87 2.54 0.38	47.81 2.52 -1.08	48.07 2.72 0.03	50.05 2.96 -0.13	57.43 3.21 -0.71	68.70 3.56 -0.49	69.81 3.40 -1.13	60.28 2.77 0.12	50.90 1.85 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT_8 TEMP GRP(8-11) 24256	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.85 1.80 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
RAVENSWOOD_GT_9 24257	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.21 1.21 -0.18	34.54 1.16 -0.24	37.01 1.31 -0.40	46.23 1.50 -0.61	49.85 1.67 -0.32	51.93 1.76 -1.17	49.06 1.88 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.19 2.54 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.09 3.16 -1.42	68.95 3.49 -0.80	70.02 3.33 -1.40	60.84 2.71 -0.50	50.85 1.80 -0.40	47.94 2.00 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81



RAVENSWOOD___1 23533	44.93 1.90 -0.90	39.09 1.70 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.02 1.31 -0.40	46.05 1.32 -0.61	49.89 1.72 -0.32	51.88 1.71 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	46.71 2.47 -1.66	46.76 2.46 -2.59	47.90 2.61 -1.08	50.75 2.72 -2.65	52.46 2.87 -2.63	58.87 3.05 -2.31	69.21 3.36 -1.19	70.23 3.20 -1.73	61.43 2.53 -1.27	50.71 1.66 -0.40	47.94 1.99 -0.55	47.31 2.00 -0.99	43.82 1.45 -0.81
RAVENSWOOD___2 23534	44.85 1.81 -0.90	38.97 1.58 -0.54	35.16 1.37 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	36.91 1.20 -0.40	45.97 1.23 -0.61	49.75 1.58 -0.32	51.53 1.37 -1.17	49.06 1.88 -1.24	46.59 2.17 -1.00	46.58 2.34 -1.66	46.69 2.38 -2.60	47.81 2.52 -1.08	50.58 2.54 -2.66	52.14 2.53 -2.64	58.45 2.62 -2.32	68.63 2.78 -1.19	69.64 2.61 -1.74	60.98 2.07 -1.27	50.37 1.31 -0.40	47.80 1.86 -0.55	47.17 1.86 -0.99	43.69 1.33 -0.81
RAVENSWOOD___3 23535	45.02 1.98 -0.90	39.12 1.73 -0.54	35.22 1.44 -0.29	33.24 1.24 -0.18	34.53 1.16 -0.24	37.02 1.31 -0.40	46.23 1.50 -0.61	49.89 1.72 -0.32	51.98 1.81 -1.17	49.15 1.97 -1.24	46.67 2.26 -1.00	45.92 2.38 -0.96	45.07 2.42 -0.94	47.90 2.61 -1.08	49.31 2.77 -1.16	51.17 2.96 -1.24	58.09 3.16 -1.42	69.01 3.55 -0.80	70.08 3.39 -1.40	60.84 2.71 -0.50	50.95 1.90 -0.40	47.99 2.04 -0.55	47.31 2.00 -0.99	43.86 1.49 -0.81
RAVENSWOOD___4 23820	44.89 1.85 -0.90	39.05 1.66 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.01 1.28 -0.61	49.85 1.67 -0.32	51.83 1.67 -1.17	49.10 1.93 -1.24	46.63 2.21 -1.00	46.81 2.43 -1.80	47.06 2.42 -2.93	47.90 2.61 -1.08	51.01 2.68 -2.95	52.75 2.87 -2.92	59.00 2.99 -2.50	69.23 3.30 -1.27	70.23 3.13 -1.80	61.54 2.48 -1.43	50.71 1.66 -0.40	47.89 1.95 -0.55	47.26 1.95 -0.99	43.78 1.41 -0.81
RCPL_TRUST___DRP 24196	45.06 2.02 -0.90	39.20 1.81 -0.54	35.29 1.51 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.08 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.07 1.91 -1.17	49.20 2.02 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.32 2.67 -0.94	47.99 2.70 -1.08	49.40 2.86 -1.16	51.30 3.10 -1.24	58.30 3.37 -1.42	69.14 3.69 -0.80	70.22 3.53 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.03 2.09 -0.55	47.35 2.04 -0.99	44.32 1.95 -0.81
RED___ROCHESTER 323720	43.94 0.67 -1.13	38.27 0.63 -0.79	34.73 0.67 -0.57	32.95 0.67 -0.45	34.52 0.76 -0.62	36.85 0.78 -0.77	46.95 0.93 -1.90	51.16 1.10 -2.21	51.57 0.98 -1.60	48.36 1.01 -1.41	45.71 1.04 -1.25	44.90 1.11 -1.22	44.00 1.08 -1.21	46.74 1.19 -1.33	47.99 1.23 -1.38	49.34 0.89 -1.48	56.07 0.54 -2.03	67.20 0.32 -2.22	68.51 0.33 -2.89	60.57 0.58 -2.36	50.91 0.54 -1.72	47.34 0.45 -1.49	46.42 0.67 -1.42	43.82 1.04 -1.23
REGAN___SOLAR 323812	43.89 2.23 0.48	38.56 1.99 0.29	35.11 1.77 0.16	33.42 1.69 0.09	34.86 1.85 0.13	37.14 2.05 0.22	46.57 2.78 0.33	50.79 3.11 0.17	50.66 2.30 0.63	46.65 1.38 0.66	43.48 0.61 0.54	42.24 0.17 0.51	41.04 -0.17 0.50	43.59 -0.04 0.58	44.76 0.00 0.62	46.82 0.52 0.66	54.14 1.39 0.76	67.14 2.91 0.43	68.60 4.05 0.75	60.94 3.57 0.27	51.64 3.21 0.22	48.09 3.00 0.29	46.46 2.66 0.53	43.27 2.16 0.44
RENSSELAER___COGEN 23796	41.16 -0.38 0.60	36.20 -0.30 0.36	32.99 -0.30 0.19	31.42 -0.29 0.12	32.71 -0.27 0.16	34.79 -0.25 0.27	43.36 -0.35 0.41	47.11 -0.53 0.22	47.66 -0.54 0.79	44.51 -0.60 0.83	42.13 -0.61 0.67	41.34 -0.60 0.64	40.45 -0.62 0.63	42.83 -0.66 0.72	43.97 -0.64 0.78	45.66 -0.47 0.83	52.08 -0.48 0.95	61.11 -0.58 2.96	55.11 -0.59 9.60	51.65 -0.63 5.35	47.85 -0.53 0.27	44.61 -0.41 0.37	43.09 -0.58 0.66	40.55 -0.46 0.54
REPUBLIC_115KV_BARTNBRK 55605	44.17 2.78 0.75	38.95 2.54 0.45	35.59 2.34 0.24	33.87 2.20 0.15	35.38 2.45 0.20	37.48 2.51 0.34	47.00 3.40 0.51	51.46 3.88 0.27	51.33 3.33 0.99	47.61 2.71 1.04	44.79 2.21 0.84	43.69 1.92 0.81	42.42 1.50 0.79	45.03 1.72 0.90	46.18 1.77 0.97	47.94 2.02 1.04	55.32 3.00 1.19	70.41 4.40 -1.36	76.60 5.22 -6.08	65.85 4.44 -3.78	52.45 4.14 0.34	48.74 3.81 0.46	46.69 3.19 0.83	43.57 2.70 0.68
REVERE_CPPR_DRP 24186	44.83 1.52 -1.18	39.79 1.33 -1.61	36.54 1.17 -1.87	34.85 1.02 -2.01	35.38 1.06 -1.19	40.05 1.24 -3.51	50.71 1.85 -4.74	54.41 2.06 -4.50	54.77 2.01 -3.77	49.03 1.61 -1.48	45.75 1.22 -1.12	45.03 1.19 -1.26	43.83 1.04 -1.08	47.88 1.02 -2.65	49.01 1.00 -2.63	50.44 1.03 -2.45	58.77 1.50 -3.76	68.34 1.81 -1.87	70.85 2.42 -3.14	64.04 2.31 -4.10	52.68 1.90 -2.14	49.03 1.68 -1.96	47.04 1.51 -1.20	43.71 1.12 -1.04
REYNLDPA_13_KV_LD 356490	42.33 0.46 0.28	35.66 0.37 1.57	31.49 0.37 2.37	29.40 0.35 2.78	32.41 0.37 1.09	30.79 0.39 4.90	39.20 0.35 5.27	43.81 0.34 4.38	45.43 0.49 4.05	46.07 0.51 0.38	43.89 0.48 0.00	42.75 0.47 0.30	42.13 0.42 0.00	42.02 0.35 2.54	43.28 0.32 2.42	45.36 0.33 1.94	50.38 0.43 3.56	65.24 0.58 0.00	64.74 0.65 1.21	54.61 0.64 3.66	48.00 0.54 1.19	44.64 0.45 1.21	44.82 0.49 0.00	42.09 0.54 0.00
REYNOLDS_115KV_TB3 80639	41.40 0.00 0.74	36.45 0.04 0.44	33.25 0.00 0.24	31.68 0.00 0.14	32.94 0.00 0.20	35.01 0.04 0.33	43.66 0.04 0.50	47.68 0.10 0.26	48.12 0.10 0.96	44.92 0.00 1.01	42.51 -0.09 0.82	41.71 -0.09 0.79	40.85 -0.08 0.77	43.24 -0.09 0.88	44.43 0.00 0.95	46.09 0.14 1.02	52.56 0.21 1.16	61.08 0.19 3.77	53.15 0.13 12.28	50.84 0.06 6.85	48.32 0.00 0.33	45.03 0.09 0.45	43.52 0.00 0.81	41.01 0.12 0.67
RIVERBAY____ 323610	45.62 2.57 -0.91	39.68 2.28 -0.54	35.79 2.01 -0.29	33.78 1.78 -0.18	35.10 1.72 -0.24	37.44 1.73 -0.40	46.59 1.85 -0.61	50.48 2.30 -0.33	52.51 2.35 -1.17	49.71 2.53 -1.25	47.15 2.74 -1.00	46.44 2.90 -0.96	45.74 3.09 -0.94	48.39 3.10 -1.08	49.67 3.13 -1.16	51.63 3.43 -1.24	58.73 3.80 -1.42	69.61 4.14 -0.81	70.68 3.98 -1.40	61.42 3.29 -0.50	51.09 2.04 -0.40	48.53 2.59 -0.55	47.89 2.57 -0.99	44.86 2.49 -0.82
RIVERSDE_115KV_TB3 55908	41.34 -0.13 0.67	36.38 -0.07 0.40	33.17 -0.10 0.22	31.60 -0.10 0.13	32.89 -0.07 0.18	34.94 -0.07 0.30	43.53 -0.13 0.46	47.56 -0.05 0.24	48.06 -0.05 0.88	44.87 -0.14 0.93	42.40 -0.26 0.75	41.61 -0.26 0.72	40.75 -0.25 0.70	43.14 -0.27 0.81	44.33 -0.18 0.87	45.99 -0.05 0.93	52.45 0.00 1.07	61.39 0.00 3.27	54.64 -0.07 10.59	51.56 -0.17 5.90	48.20 -0.15 0.30	44.93 -0.05 0.41	43.41 -0.18 0.74	40.94 0.00 0.61
ROARING___BROOK_WT_PWR 323790	41.88 -0.21 0.05	36.41 -0.18 0.26	32.93 -0.17 0.40	31.20 -0.16 0.46	32.79 -0.16 0.18	34.35 -0.14 0.82	43.02 -0.22 0.88	46.88 -0.24 0.73	48.12 -0.20 0.68	45.74 -0.14 0.06	43.28 -0.13 0.00	42.36 -0.17 0.05	41.46 -0.25 0.00	43.44 -0.36 0.42	44.57 -0.41 0.40	46.22 -0.42 0.32	52.49 -0.43 0.59	64.27 -0.39 0.00	64.77 -0.32 0.20	56.74 -0.29 0.61	48.16 -0.29 0.20	44.92 -0.27 0.20	44.15 -0.18 0.00	41.47 -0.08 0.00



ROCHESRG_115KV_T4 355643	43.54 0.29 -1.11	37.88 0.26 -0.77	34.41 0.37 -0.55	32.65 0.38 -0.44	34.21 0.46 -0.61	36.48 0.42 -0.75	46.42 0.44 -1.86	50.44 0.43 -2.16	50.80 0.24 -1.57	47.77 0.46 -1.38	45.16 0.52 -1.23	44.36 0.60 -1.19	43.43 0.54 -1.18	46.17 0.66 -1.30	47.42 0.68 -1.35	48.70 0.28 -1.45	55.22 -0.16 -1.87	66.32 -0.39 -2.05	67.57 -0.39 -2.67	59.64 -0.17 -2.18	50.19 -0.05 -1.59	46.68 -0.09 -1.38	45.86 0.22 -1.31	42.64 -0.04 -1.13
ROCHESTER_9_IC 23652	43.78 0.51 -1.13	38.08 0.44 -0.79	34.59 0.54 -0.57	32.82 0.54 -0.45	34.39 0.63 -0.62	36.71 0.64 -0.77	46.73 0.71 -1.90	50.82 0.77 -2.21	51.18 0.59 -1.60	48.08 0.74 -1.41	45.45 0.78 -1.25	44.65 0.85 -1.22	43.71 0.79 -1.21	46.47 0.93 -1.33	47.72 0.95 -1.38	49.01 0.56 -1.48	55.59 0.16 -1.92	66.75 0.00 -2.09	68.03 0.00 -2.73	60.03 0.17 -2.23	50.52 0.24 -1.62	47.03 0.23 -1.41	46.11 0.44 -1.34	42.88 0.17 -1.16
ROCKVIEW_13_KV_LD 356306	44.98 1.94 -0.90	39.09 1.70 -0.54	35.19 1.41 -0.29	33.21 1.21 -0.18	34.50 1.13 -0.24	37.05 1.34 -0.40	46.32 1.59 -0.61	49.90 1.72 -0.32	51.98 1.81 -1.17	49.11 1.93 -1.24	46.67 2.26 -1.00	45.88 2.34 -0.96	45.11 2.46 -0.94	47.81 2.52 -1.08	49.22 2.68 -1.16	51.12 2.91 -1.24	58.14 3.21 -1.42	68.95 3.49 -0.80	70.15 3.46 -1.40	60.96 2.82 -0.50	50.95 1.90 -0.40	47.98 2.04 -0.55	47.26 1.95 -0.99	44.23 1.87 -0.81
ROME____115KV_TB2 80656	44.83 1.52 -1.18	39.79 1.33 -1.61	36.54 1.17 -1.87	34.85 1.02 -2.01	35.38 1.06 -1.19	40.05 1.24 -3.51	50.71 1.85 -4.74	54.41 2.06 -4.50	54.77 2.01 -3.77	49.03 1.61 -1.48	45.75 1.22 -1.12	45.03 1.19 -1.26	43.83 1.04 -1.08	47.88 1.02 -2.65	49.01 1.00 -2.63	50.44 1.03 -2.45	58.77 1.50 -3.76	68.34 1.81 -1.87	70.85 2.42 -3.14	64.04 2.31 -4.10	52.68 1.90 -2.14	49.03 1.68 -1.96	47.04 1.51 -1.20	43.71 1.12 -1.04
ROSETON___1 23587	44.07 1.09 -0.84	38.28 0.92 -0.50	34.50 0.74 -0.27	32.62 0.64 -0.16	33.96 0.60 -0.23	36.35 0.67 -0.37	45.49 0.79 -0.57	49.01 0.86 -0.30	50.97 0.88 -1.09	48.10 1.01 -1.15	45.52 1.17 -0.93	44.75 1.28 -0.89	43.88 1.29 -0.88	46.68 1.46 -1.01	48.05 1.59 -1.08	49.86 1.74 -1.16	56.66 1.82 -1.32	67.41 2.01 -0.75	68.49 1.89 -1.30	59.54 1.44 -0.46	50.05 1.02 -0.37	47.04 1.14 -0.51	46.31 1.06 -0.92	43.10 0.79 -0.76
ROSETON___2 23588	44.07 1.09 -0.84	38.28 0.92 -0.50	34.50 0.74 -0.27	32.62 0.64 -0.16	33.96 0.60 -0.23	36.35 0.67 -0.37	45.49 0.79 -0.57	49.01 0.86 -0.30	50.97 0.88 -1.09	48.10 1.01 -1.15	45.52 1.17 -0.93	44.75 1.28 -0.89	43.88 1.29 -0.88	46.68 1.46 -1.01	48.05 1.59 -1.08	49.86 1.74 -1.16	56.66 1.82 -1.32	67.41 2.01 -0.75	68.49 1.89 -1.30	59.54 1.44 -0.46	50.05 1.02 -0.37	47.04 1.14 -0.51	46.31 1.06 -0.92	43.10 0.79 -0.76
ROTRDAM_115KV_TB3 80664	42.25 0.67 0.56	37.11 0.59 0.34	33.85 0.54 0.18	32.22 0.51 0.11	33.51 0.53 0.15	35.59 0.53 0.25	44.44 0.71 0.38	48.46 0.81 0.20	48.94 0.69 0.73	45.72 0.55 0.77	43.27 0.48 0.63	42.41 0.43 0.60	41.54 0.42 0.59	43.98 0.44 0.67	45.16 0.50 0.72	46.85 0.66 0.78	53.48 0.86 0.89	65.91 1.16 -0.09	67.71 1.18 -1.24	59.52 0.98 -0.91	49.27 0.88 0.25	45.91 0.86 0.34	44.47 0.75 0.62	41.75 0.71 0.51
RUSSELL___1 23602	43.95 0.67 -1.13	38.27 0.63 -0.79	34.73 0.67 -0.57	32.95 0.67 -0.45	34.52 0.76 -0.62	36.85 0.78 -0.77	46.95 0.93 -1.90	51.06 1.00 -2.21	51.43 0.83 -1.60	48.36 1.01 -1.41	45.71 1.04 -1.25	44.90 1.11 -1.22	43.96 1.04 -1.21	46.73 1.19 -1.33	47.99 1.23 -1.38	49.29 0.85 -1.48	55.85 0.43 -1.92	67.08 0.32 -2.09	68.35 0.33 -2.73	60.38 0.52 -2.23	50.81 0.54 -1.62	47.26 0.45 -1.41	46.34 0.66 -1.34	43.04 0.33 -1.16
RUSSELL___2 23532	43.95 0.67 -1.13	38.27 0.63 -0.79	34.73 0.67 -0.57	32.95 0.67 -0.45	34.52 0.76 -0.62	36.85 0.78 -0.77	46.95 0.93 -1.90	51.06 1.00 -2.21	51.43 0.83 -1.60	48.36 1.01 -1.41	45.71 1.04 -1.25	44.90 1.11 -1.22	43.96 1.04 -1.21	46.73 1.19 -1.33	47.99 1.23 -1.38	49.29 0.85 -1.48	55.85 0.43 -1.92	67.08 0.32 -2.09	68.35 0.33 -2.73	60.38 0.52 -2.23	50.81 0.54 -1.62	47.26 0.45 -1.41	46.34 0.66 -1.34	43.04 0.33 -1.16
RUSSELL___3 23549	43.95 0.67 -1.13	38.27 0.63 -0.79	34.73 0.67 -0.57	32.95 0.67 -0.45	34.52 0.76 -0.62	36.85 0.78 -0.77	46.95 0.93 -1.90	51.06 1.00 -2.21	51.43 0.83 -1.60	48.36 1.01 -1.41	45.71 1.04 -1.25	44.90 1.11 -1.22	43.96 1.04 -1.21	46.73 1.19 -1.33	47.99 1.23 -1.38	49.29 0.85 -1.48	55.85 0.43 -1.92	67.08 0.32 -2.09	68.35 0.33 -2.73	60.38 0.52 -2.23	50.81 0.54 -1.62	47.26 0.45 -1.41	46.34 0.66 -1.34	43.04 0.33 -1.16
RUSSELL___4 23556	43.95 0.67 -1.13	38.27 0.63 -0.79	34.73 0.67 -0.57	32.95 0.67 -0.45	34.52 0.76 -0.62	36.85 0.78 -0.77	46.95 0.93 -1.90	51.06 1.00 -2.21	51.43 0.83 -1.60	48.36 1.01 -1.41	45.71 1.04 -1.25	44.90 1.11 -1.22	43.96 1.04 -1.21	46.73 1.19 -1.33	47.99 1.23 -1.38	49.29 0.85 -1.48	55.85 0.43 -1.92	67.08 0.32 -2.09	68.35 0.33 -2.73	60.38 0.52 -2.23	50.81 0.54 -1.62	47.26 0.45 -1.41	46.34 0.66 -1.34	43.04 0.33 -1.16
RUSSELL___STATION 23914	43.95 0.67 -1.13	38.27 0.63 -0.79	34.73 0.67 -0.57	32.95 0.67 -0.45	34.52 0.76 -0.62	36.85 0.78 -0.77	46.95 0.93 -1.90	51.06 1.00 -2.21	51.43 0.83 -1.60	48.36 1.01 -1.41	45.71 1.04 -1.25	44.90 1.11 -1.22	43.96 1.04 -1.21	46.73 1.19 -1.33	47.99 1.23 -1.38	49.29 0.85 -1.48	55.85 0.43 -1.92	67.08 0.32 -2.09	68.35 0.33 -2.73	60.38 0.52 -2.23	50.81 0.54 -1.62	47.26 0.45 -1.41	46.34 0.66 -1.34	43.04 0.33 -1.16
S SALMON___HYD 24043	45.96 0.30 -3.52	40.41 0.22 -3.34	36.91 0.20 -3.21	35.13 0.16 -3.15	35.85 0.17 -2.55	41.01 0.25 -5.45	53.69 0.53 -9.03	57.82 0.62 -9.35	56.89 0.54 -7.37	50.66 0.32 -4.40	47.20 0.09 -3.70	46.40 0.04 -3.78	45.27 0.00 -3.56	49.78 0.00 -5.56	50.99 -0.05 -5.65	52.51 -0.09 -5.64	61.45 0.00 -7.94	70.74 -0.06 -6.15	74.36 0.26 -8.81	66.96 0.41 -8.92	54.53 0.34 -5.54	50.72 0.41 -4.92	48.62 0.35 -3.94	45.16 0.21 -3.40
S.PERRY__115KV_TB1 80734	45.56 2.02 -1.40	39.59 1.77 -0.97	36.00 1.81 -0.70	34.14 1.75 -0.56	35.86 1.95 -0.77	38.30 2.05 -0.95	49.07 2.60 -2.35	53.35 2.78 -2.72	53.22 2.25 -1.98	49.61 1.93 -1.74	46.66 1.69 -1.55	45.61 1.53 -1.50	44.74 1.54 -1.49	47.62 1.77 -1.64	48.95 1.86 -1.71	50.35 1.55 -1.83	57.29 1.44 -2.34	69.28 2.07 -2.56	71.24 2.61 -3.33	63.06 2.71 -2.72	52.97 2.34 -1.98	49.11 2.00 -1.72	48.23 2.26 -1.64	44.67 1.70 -1.41
SAWYER_23_KV_LOAD_REV_LBMP_A 345024	43.94 0.59 -1.21	38.28 0.59 -0.84	34.90 0.80 -0.60	33.17 0.86 -0.48	34.73 0.93 -0.67	37.01 0.88 -0.82	46.68 0.53 -2.03	50.49 0.29 -2.35	50.51 -0.20 -1.71	47.72 0.28 -1.50	45.27 0.52 -1.34	44.56 0.68 -1.30	43.62 0.63 -1.29	46.38 0.75 -1.42	47.77 0.91 -1.48	48.50 -0.05 -1.58	54.28 -1.28 -2.06	64.77 -2.13 -2.25	66.01 -2.22 -2.93	58.24 -1.79 -2.39	49.32 -1.07 -1.74	45.95 -0.95 -1.51	45.68 -0.09 -1.44	42.67 -0.12 -1.24



SAWYER___23_KV_LOAD 55526	43.94	38.28	34.90	33.17	34.73	37.01	46.68	50.49	50.51	47.72	45.27	44.56	43.62	46.38	47.77	48.50	54.28	64.77	66.01	58.24	49.32	45.95	45.68	42.67
	0.59	0.59	0.80	0.86	0.93	0.88	0.53	0.29	-0.20	0.28	0.52	0.68	0.63	0.75	0.91	-0.05	-1.28	-2.13	-2.22	-1.79	-1.07	-0.95	-0.09	-0.12
	-1.21	-0.84	-0.60	-0.48	-0.67	-0.82	-2.03	-2.35	-1.71	-1.50	-1.34	-1.30	-1.29	-1.42	-1.48	-1.58	-2.06	-2.25	-2.93	-2.39	-1.74	-1.51	-1.44	-1.24
SELKIRK___I 23801	42.16	37.01	33.71	32.07	33.37	35.50	44.27	50.16	50.08	45.99	43.01	41.77	40.62	37.19	38.25	45.48	51.98	61.91	58.63	53.50	47.76	44.58	43.22	41.52
	0.38	0.37	0.33	0.32	0.33	0.35	0.40	2.44	1.57	0.55	0.00	-0.43	-0.71	-6.59	-6.67	-0.99	-0.96	-0.97	-0.91	-0.92	-0.73	-0.59	-0.71	0.29
	0.36	0.22	0.12	0.07	0.10	0.16	0.25	0.13	0.47	0.50	0.40	0.39	0.38	0.43	0.46	0.50	0.57	1.78	5.75	3.21	0.16	0.22	0.40	0.33
SELKIRK___II 23799	41.68	36.60	33.32	31.71	32.99	35.08	43.79	47.13	47.85	44.76	42.38	41.58	40.73	43.09	44.25	45.92	52.36	62.08	58.15	53.37	47.88	44.68	43.29	41.01
	-0.04	0.00	-0.03	-0.03	-0.03	-0.04	-0.04	-0.57	-0.59	-0.60	-0.57	-0.55	-0.54	-0.62	-0.59	-0.47	-0.48	-0.58	-0.72	-0.69	-0.58	-0.45	-0.58	-0.17
	0.42	0.25	0.14	0.08	0.11	0.19	0.29	0.15	0.55	0.58	0.47	0.45	0.44	0.50	0.54	0.58	0.66	1.99	6.43	3.58	0.19	0.26	0.46	0.38
SENECA OSWGO___HYD 24041	43.80	38.20	34.72	32.93	34.25	37.38	48.15	52.29	52.35	48.23	45.34	44.47	43.57	46.75	47.98	49.58	57.15	67.88	69.83	61.89	51.47	47.79	46.43	43.36
	-0.21	-0.22	-0.13	-0.16	-0.10	-0.11	-0.04	0.05	0.00	-0.05	-0.09	-0.13	-0.08	-0.09	-0.09	-0.14	-0.11	-0.13	-0.07	0.00	0.00	-0.09	-0.04	-0.04
	-1.88	-1.56	-1.37	-1.26	-1.21	-2.18	-4.07	-4.39	-3.36	-2.34	-2.02	-2.01	-1.94	-2.62	-2.69	-2.76	-3.75	-3.35	-4.60	-4.26	-2.83	-2.49	-2.15	-1.85
SENECA___115KV_TB3 355854	44.30	38.56	35.12	33.40	34.98	37.31	47.21	51.12	51.13	48.30	45.83	45.06	44.11	46.90	48.30	49.10	54.92	65.61	66.87	58.99	49.95	46.49	46.16	42.99
	0.93	0.85	1.00	1.08	1.16	1.17	1.01	0.86	0.39	0.83	1.04	1.15	1.08	1.24	1.41	0.52	-0.70	-1.36	-1.44	-1.10	-0.49	-0.45	0.35	0.17
	-1.24	-0.86	-0.62	-0.50	-0.68	-0.84	-2.08	-2.41	-1.75	-1.54	-1.37	-1.33	-1.32	-1.45	-1.51	-1.62	-2.11	-2.31	-3.01	-2.45	-1.79	-1.55	-1.48	-1.28
SENECA___ENERGY 23797	45.84	39.91	36.10	34.17	35.81	38.96	50.90	55.56	55.06	50.76	47.61	46.66	45.71	49.03	50.31	51.92	58.49	69.63	72.01	63.55	52.84	48.96	47.71	44.63
	0.93	0.96	0.94	0.89	1.03	1.16	1.50	1.82	1.67	1.38	1.17	1.11	1.08	1.28	1.27	1.13	0.32	0.39	0.59	0.58	0.49	0.32	0.44	0.54
	-2.77	-2.10	-1.68	-1.46	-1.65	-2.49	-5.28	-5.89	-4.40	-3.45	-3.03	-2.97	-2.92	-3.53	-3.65	-3.84	-4.66	-4.58	-6.13	-5.34	-3.71	-3.24	-2.94	-2.54
SHOEMAKER___GT 23640	44.06	38.31	34.55	32.68	34.01	36.40	45.58	49.14	50.99	48.02	45.46	44.60	43.73	46.52	47.93	49.78	56.56	67.48	68.59	59.74	50.21	47.19	46.38	43.13
	1.14	1.00	0.80	0.70	0.66	0.74	0.93	1.01	0.98	1.01	1.17	1.19	1.21	1.37	1.54	1.74	1.82	2.13	2.09	1.67	1.22	1.32	1.20	0.87
	-0.78	-0.46	-0.25	-0.15	-0.21	-0.35	-0.53	-0.28	-1.02	-1.07	-0.87	-0.83	-0.82	-0.94	-1.00	-1.08	-1.23	-0.69	-1.21	-0.43	-0.35	-0.48	-0.85	-0.70
SHOEMAKR_138KV_BK 111 55601	44.05	38.31	34.51	32.68	34.00	36.39	45.57	49.09	50.93	47.97	45.45	44.60	43.85	46.51	47.92	49.77	56.61	67.48	68.52	59.68	50.11	47.09	46.33	43.37
	1.14	1.00	0.77	0.70	0.66	0.74	0.93	0.96	0.93	0.96	1.17	1.19	1.33	1.37	1.54	1.74	1.87	2.13	2.02	1.61	1.12	1.23	1.15	1.12
	-0.77	-0.46	-0.25	-0.15	-0.21	-0.35	-0.53	-0.28	-1.01	-1.06	-0.86	-0.83	-0.81	-0.93	-1.00	-1.07	-1.22	-0.69	-1.20	-0.43	-0.35	-0.47	-0.85	-0.70
SHOREHAM_IC_1 23715	43.80	37.80	33.84	31.83	33.10	35.99	44.51	45.81	46.06	46.02	43.55	44.25	43.64	46.30	47.76	49.74	56.87	67.60	68.79	59.93	49.67	45.73	43.44	42.64
	0.76	0.41	0.07	-0.16	-0.27	0.28	-0.22	-0.38	-0.34	0.37	0.43	0.72	1.00	1.02	1.23	1.55	1.92	2.13	2.09	1.79	0.63	0.50	0.27	0.29
	-0.90	-0.54	-0.28	-0.17	-0.23	-0.40	-0.60	1.65	2.59	0.29	0.30	-0.95	-0.93	-1.07	-1.15	-1.23	-1.43	-0.81	-1.40	-0.51	-0.39	0.16	1.15	-0.80
SHOREHAM_IC_2 23716	43.80	37.80	33.84	31.83	33.10	35.99	44.50	45.77	46.06	45.47	43.55	44.21	43.73	46.21	47.71	49.70	56.87	67.54	68.79	59.87	49.48	45.68	43.44	42.94
	0.76	0.41	0.07	-0.16	-0.27	0.28	-0.22	-0.43	-0.34	-0.18	0.43	0.68	1.08	0.93	1.18	1.50	1.93	2.07	2.09	1.73	0.44	0.45	0.27	0.58
	-0.90	-0.54	-0.28	-0.17	-0.23	-0.40	-0.60	1.65	2.59	0.29	0.30	-0.95	-0.93	-1.07	-1.15	-1.23	-1.43	-0.81	-1.40	-0.51	-0.39	0.16	1.15	-0.80
SISSONVILLE____ 23735	45.40	48.29	50.00	50.86	41.23	68.58	80.39	78.46	77.23	49.91	44.67	45.74	42.80	62.05	62.31	60.75	78.25	66.18	75.10	83.30	57.90	54.77	45.82	42.94
	0.93	0.81	0.70	0.64	0.66	0.78	0.88	0.91	0.98	0.87	0.69	0.64	0.54	0.57	0.45	0.42	0.54	0.58	0.65	0.69	0.73	0.82	0.89	0.87
	-2.33	-10.62	-15.81	-18.40	-7.43	-32.49	-35.38	-29.70	-27.26	-3.10	-0.56	-2.52	-0.54	-17.26	-16.48	-13.36	-24.20	-0.94	-9.15	-24.98	-8.52	-8.56	-0.60	-0.52
SITHE_IND_GS1 24169	24.35	24.35	24.35	24.35	23.14	23.14	14.96	14.17	24.14	24.05	23.85	23.60	22.85	23.60	23.85	23.85	23.87	32.10	23.35	23.35	23.48	23.48	23.48	23.48
	-0.97	-0.85	-0.74	-0.73	-0.73	-0.78	-0.93	-0.96	-1.03	-0.97	-0.96	-0.94	-0.92	-0.93	-1.00	-1.08	-1.28	-1.55	-1.50	-1.32	-1.12	-1.04	-0.98	-0.91
	16.82	11.66	8.40	6.74	9.26	11.39	28.23	32.73	23.82	20.92	18.61	18.04	17.94	19.68	20.53	22.04	28.36	31.00	40.44	32.96	24.05	20.87	19.87	17.16
SITHE_IND_GS2 24170	24.35	24.35	24.35	24.35	23.14	23.14	14.96	14.17	24.14	24.05	23.85	23.60	22.85	23.60	23.85	23.85	23.87	32.10	23.35	23.35	23.48	23.48	23.48	23.48
	-0.97	-0.85	-0.74	-0.73	-0.73	-0.78	-0.93	-0.96	-1.03	-0.97	-0.96	-0.94	-0.92	-0.93	-1.00	-1.08	-1.28	-1.55	-1.50	-1.32	-1.12	-1.04	-0.98	-0.91
	16.82	11.66	8.40	6.74	9.26	11.39	28.23	32.73	23.82	20.92	18.61	18.04	17.94	19.68	20.53	22.04	28.36	31.00	40.44	32.96	24.05	20.87	19.87	17.16
SITHE_IND_GS3 24171	24.35	24.35	24.35	24.35	23.14	23.14	14.96	14.17	24.14	24.05	23.85	23.60	22.85	23.60	23.85	23.85	23.87	32.10	23.35	23.35	23.48	23.48	23.48	23.48
	-0.97	-0.85	-0.74	-0.73	-0.73	-0.78	-0.93	-0.96	-1.03	-0.97	-0.96	-0.94	-0.92	-0.93	-1.00	-1.08	-1.28	-1.55	-1.50	-1.32	-1.12	-1.04	-0.98	-0.91
	16.82	11.66	8.40	6.74	9.26	11.39	28.23	32.73	23.82	20.92	18.61	18.04	17.94	19.68	20.53	22.04	28.36	31.00	40.44	32.96	24.05	20.87	19.87	17.16
SITHE_IND_GS4 24172	24.35	24.35	24.35	24.35	23.14	23.14	14.96	14.17	24.14	24.05	23.85	23.60	22.85	23.60	23.85	23.85	23.87	32.10	23.35	23.35	23.48	23.48	23.48	23.48
	-0.97	-0.85	-0.74	-0.73	-0.73	-0.78	-0.93	-0.96	-1.03	-0.97	-0.96	-0.94	-0.92	-0.93	-1.00	-1.08	-1.28	-1.55	-1.50	-1.32	-1.12	-1.04	-0.98	-0.91
	16.82	11.66	8.40	6.74	9.26	11.39	28.23	32.73	23.82	20.92	18.61	18.04	17.94	19.68	20.53	22.04	28.36	31.00	40.44	32.96	24.05	20.87	19.87	17.16



SITHE___BATAVIA 24024	44.80 1.47 -1.19	39.04 1.36 -0.82	35.52 1.44 -0.59	33.73 1.43 -0.48	35.38 1.59 -0.65	37.70 1.59 -0.80	47.92 1.81 -1.99	52.21 2.06 -2.31	52.38 1.71 -1.68	49.16 1.75 -1.48	46.42 1.69 -1.31	45.60 1.75 -1.27	44.68 1.71 -1.26	47.42 1.81 -1.39	48.74 1.91 -1.45	49.88 1.36 -1.55	56.24 0.64 -2.09	67.33 0.39 -2.28	68.73 0.46 -2.98	60.93 0.87 -2.43	51.25 0.83 -1.77	47.65 0.72 -1.54	47.03 1.24 -1.46	44.77 1.95 -1.26
SITHE___INDEPEND 23800	24.35 -0.97 16.82	24.35 -0.85 11.66	24.35 -0.74 8.40	24.35 -0.73 6.74	23.14 -0.73 9.26	23.14 -0.78 11.39	14.96 -0.93 28.23	14.12 -1.00 32.73	24.09 -1.08 23.82	24.01 -1.01 20.92	23.85 -0.96 18.61	23.60 -0.94 18.04	22.85 -0.92 17.94	23.60 -0.93 19.68	23.85 -1.00 20.53	23.85 -1.08 22.04	23.87 -1.28 28.36	32.10 -1.55 31.01	23.34 -1.50 40.45	23.34 -1.33 32.97	23.47 -1.12 24.06	23.48 -1.04 20.87	23.48 -0.98 19.88	23.39 -1.00 17.16
SITHE___MASSENA 23902	45.41 0.63 -2.64	52.31 0.55 -14.90	56.55 0.50 -22.56	58.70 0.48 -26.40	44.00 0.50 -10.37	82.46 0.53 -46.63	94.73 0.53 -50.08	90.02 0.53 -41.64	88.17 0.69 -38.50	50.16 0.64 -3.58	44.02 0.61 0.00	46.04 0.60 -2.86	42.29 0.58 0.00	68.92 0.53 -24.17	68.87 0.50 -22.99	65.84 0.47 -18.41	87.96 0.59 -33.86	65.50 0.84 0.00	77.64 0.85 -11.50	93.22 0.81 -34.78	60.62 0.68 -11.29	57.52 0.64 -11.50	44.99 0.67 0.00	42.30 0.75 0.00
SITHE___OGDNSBRG 24021	46.03 1.35 -2.54	50.38 1.18 -12.35	53.00 1.04 -18.47	54.32 0.95 -21.55	42.72 0.96 -8.62	74.48 1.13 -38.04	86.73 1.37 -41.24	83.80 1.44 -34.52	82.12 1.37 -31.76	50.44 1.10 -3.40	44.77 0.91 -0.45	46.18 0.85 -2.75	42.85 0.71 -0.43	65.02 0.75 -20.05	65.23 0.73 -19.12	63.16 0.75 -15.44	82.74 1.12 -28.11	66.89 1.49 -0.75	77.41 1.83 -10.28	88.39 1.79 -28.97	59.98 1.61 -9.73	56.66 1.45 -9.81	46.18 1.37 -0.48	43.25 1.29 -0.41
SITHE___STERLING 23777	44.52 1.14 -1.24	39.25 1.00 -1.40	35.89 0.90 -1.50	34.20 0.83 -1.55	35.05 0.86 -1.05	38.99 0.99 -2.69	49.59 1.50 -3.97	53.45 1.67 -3.93	53.80 1.61 -3.20	48.78 1.28 -1.56	45.71 1.04 -1.25	44.89 0.98 -1.33	43.80 0.88 -1.21	47.47 0.93 -2.33	48.58 0.86 -2.33	50.10 0.89 -2.25	58.04 1.23 -3.30	68.23 1.49 -2.08	70.38 1.89 -3.19	63.13 1.84 -3.65	52.29 1.56 -2.08	48.58 1.32 -1.87	46.86 1.20 -1.33	43.70 1.00 -1.15
SLEIGHT__34_KV_TB1 80719	43.71 0.04 -1.53	37.95 0.04 -1.06	34.39 0.13 -0.77	32.57 0.13 -0.61	34.21 0.23 -0.84	36.56 0.21 -1.04	47.04 0.35 -2.57	51.26 0.43 -2.98	51.45 0.29 -2.17	48.26 0.41 -1.91	45.54 0.43 -1.70	44.65 0.43 -1.64	43.76 0.42 -1.63	46.49 0.49 -1.79	47.71 0.45 -1.87	49.16 0.19 -2.01	56.10 0.00 -2.59	67.42 -0.06 -2.83	68.98 0.00 -3.69	60.76 0.12 -3.01	50.99 0.15 -2.19	47.34 0.05 -1.90	46.32 0.18 -1.81	43.03 -0.08 -1.56
SMITHTWN_69_KV_BK 1 55830	44.43 1.39 -0.90	38.42 1.03 -0.54	34.38 0.60 -0.28	32.37 0.38 -0.17	33.67 0.30 -0.23	36.52 0.81 -0.40	45.21 0.49 -0.60	46.49 0.29 1.64	46.76 0.34 2.57	46.16 0.51 0.28	44.17 1.04 0.29	44.80 1.28 -0.95	44.31 1.67 -0.93	46.83 1.55 -1.07	48.35 1.82 -1.15	50.31 2.11 -1.23	57.51 2.57 -1.43	68.05 2.59 -0.81	69.18 2.48 -1.40	60.45 2.31 -0.51	50.02 0.97 -0.39	46.23 1.00 0.16	43.98 0.80 1.14	43.44 1.08 -0.80
SOUTH CAIRO___GT 23612	43.23 1.35 0.26	37.88 1.18 0.15	34.41 1.00 0.08	32.73 0.95 0.05	34.16 1.09 0.07	36.39 1.20 0.12	45.66 1.72 0.18	50.01 2.25 0.09	50.46 1.81 0.34	46.59 1.01 0.36	43.52 0.39 0.29	42.30 0.00 0.28	41.39 -0.04 0.27	43.99 0.09 0.31	45.23 0.18 0.33	47.40 0.80 0.36	54.28 1.18 0.41	65.03 2.07 1.69	62.15 2.48 5.62	56.54 2.07 3.17	50.33 1.80 0.12	47.00 1.77 0.16	45.55 1.51 0.28	43.06 1.75 0.23
SOUTH HAMPTN___IC 23720	44.18 1.14 -0.90	38.09 0.70 -0.54	34.08 0.30 -0.28	32.09 0.10 -0.17	33.37 0.00 -0.23	36.27 0.56 -0.40	44.77 0.04 -0.60	46.15 -0.05 1.66	46.49 0.10 2.59	46.52 0.87 0.29	44.16 1.04 0.30	44.98 1.45 -0.95	44.35 1.71 -0.93	47.09 1.81 -1.07	48.62 2.09 -1.15	50.59 2.39 -1.23	57.88 2.94 -1.43	68.76 3.30 -0.81	70.09 3.39 -1.40	60.96 2.82 -0.51	50.50 1.46 -0.39	46.41 1.18 0.16	44.06 0.89 1.16	43.26 0.91 -0.80
SOUTHDOW_115KV_TB1 355954	45.46 2.06 -1.26	39.61 1.88 -0.87	35.93 1.81 -0.63	34.21 1.88 -0.50	35.85 2.02 -0.69	38.38 2.22 -0.85	49.50 3.26 -2.11	53.70 3.40 -2.45	53.71 2.94 -1.78	50.72 3.22 -1.57	48.15 3.34 -1.39	47.34 3.41 -1.35	46.30 3.25 -1.34	49.14 3.45 -1.47	50.64 3.72 -1.54	51.48 2.86 -1.65	57.63 1.93 -2.19	68.09 1.03 -2.40	69.40 0.98 -3.12	61.22 1.04 -2.55	51.72 1.22 -1.86	47.91 0.91 -1.61	47.55 1.68 -1.54	44.16 1.29 -1.33
SOUTHOLD_69_KV_BK 2 55809	44.17 1.14 -0.90	38.05 0.66 -0.54	34.04 0.27 -0.28	32.02 0.03 -0.17	33.30 -0.07 -0.23	36.27 0.56 -0.40	44.64 -0.09 -0.60	45.96 -0.24 1.66	46.49 0.10 2.59	46.06 0.41 0.29	44.46 1.35 0.30	45.31 1.79 -0.95	44.94 2.29 -0.93	47.49 2.21 -1.07	49.03 2.50 -1.15	51.06 2.86 -1.23	58.47 3.53 -1.43	69.61 4.14 -0.81	70.94 4.24 -1.40	61.71 3.57 -0.51	50.84 1.80 -0.39	46.82 1.59 0.16	44.32 1.15 1.16	43.98 1.62 -0.80
SOUTHOLD___IC 23719	44.18 1.14 -0.90	38.05 0.66 -0.54	34.04 0.27 -0.28	32.02 0.03 -0.17	33.30 -0.07 -0.23	36.27 0.56 -0.40	44.64 -0.09 -0.60	46.05 -0.14 1.66	46.54 0.15 2.59	46.66 1.01 0.29	44.46 1.35 0.30	45.36 1.83 -0.95	44.81 2.17 -0.93	47.58 2.30 -1.07	49.07 2.54 -1.15	51.11 2.91 -1.23	58.47 3.53 -1.43	69.61 4.14 -0.81	70.94 4.24 -1.40	61.72 3.57 -0.51	51.04 2.00 -0.39	46.86 1.63 0.16	44.37 1.20 1.16	43.68 1.33 -0.80
SOUTH_FORK_WT_PWR 323839	43.71 0.67 -0.90	37.68 0.29 -0.54	33.67 -0.10 -0.28	31.67 -0.32 -0.17	32.94 -0.43 -0.23	35.92 0.21 -0.40	44.02 -0.71 -0.60	45.38 -0.81 1.66	45.95 -0.44 2.59	46.20 0.55 0.29	44.12 1.00 0.30	45.06 1.53 -0.95	44.56 1.92 -0.93	47.27 1.99 -1.07	48.71 2.18 -1.15	50.68 2.49 -1.23	58.05 3.10 -1.43	69.15 3.68 -0.81	70.48 3.79 -1.40	61.37 3.23 -0.51	50.70 1.66 -0.39	46.55 1.32 0.16	44.06 0.89 1.16	43.51 1.16 -0.80
SPIERFLS_115KV_TB 1 80737	42.21 0.80 0.73	37.19 0.77 0.44	33.99 0.74 0.24	32.38 0.70 0.14	33.73 0.80 0.20	35.72 0.74 0.33	44.59 0.97 0.50	48.78 1.20 0.26	48.91 0.88 0.96	45.52 0.60 1.01	42.99 0.39 0.82	42.05 0.26 0.78	41.02 0.08 0.77	43.51 0.18 0.88	44.66 0.23 0.95	46.33 0.38 1.01	53.21 0.86 1.16	67.25 1.36 -1.23	72.57 1.70 -5.58	62.50 1.38 -3.49	49.63 1.31 0.33	46.31 1.36 0.45	44.54 1.02 0.80	41.72 0.83 0.66
ST LAWRENCE____ 23600	42.00 0.08 0.23	35.72 0.04 1.17	31.75 0.03 1.77	29.86 0.03 1.99	32.28 0.03 0.88	31.86 0.07 3.52	40.29 -0.04 3.78	44.61 -0.10 3.15	46.08 0.00 2.91	45.68 0.05 0.31	43.46 0.04 0.00	42.34 0.00 0.24	41.75 0.04 0.00	42.30 -0.09 1.83	43.53 -0.09 1.76	45.38 -0.14 1.45	50.85 -0.11 2.56	64.66 0.00 0.00	64.36 0.00 0.94	55.06 0.06 2.63	47.81 0.05 0.89	44.49 0.05 0.95	44.42 0.09 0.00	41.72 0.17 0.00



STATE_CA_115KV_115_LB 55624	41.42 -0.08 0.63	36.44 -0.04 0.38	33.22 -0.07 0.20	31.64 -0.06 0.12	32.93 -0.03 0.17	35.03 0.00 0.28	43.65 -0.04 0.43	47.67 0.05 0.23	48.16 0.00 0.82	44.98 -0.09 0.87	42.49 -0.22 0.70	41.65 -0.26 0.67	40.80 -0.25 0.66	43.19 -0.27 0.76	44.39 -0.18 0.81	46.05 -0.05 0.87	52.51 0.00 1.00	62.08 0.00 2.58	57.11 0.00 8.19	53.00 -0.12 4.52	48.27 -0.10 0.28	45.01 0.00 0.39	43.50 -0.13 0.69	41.02 0.04 0.57
STATE_ST_34_KV_LOAD 55959	45.38 0.42 -2.82	39.40 0.41 -2.14	35.63 0.44 -1.71	33.69 0.38 -1.49	35.28 0.46 -1.68	38.38 0.53 -2.54	50.29 0.79 -5.38	54.81 0.96 -6.00	54.31 0.83 -4.48	50.19 0.74 -3.52	47.15 0.65 -3.08	46.21 0.60 -3.03	45.31 0.63 -2.97	48.52 0.71 -3.60	49.79 0.68 -3.72	51.44 0.56 -3.91	59.16 0.48 -5.17	70.50 0.71 -5.13	73.00 0.85 -6.86	64.38 0.81 -5.94	53.47 0.68 -4.14	49.51 0.50 -3.62	48.20 0.58 -3.29	44.72 0.33 -2.84
STATION_5_MISC_HYD 23604	43.78 0.51 -1.13	38.08 0.44 -0.79	34.59 0.53 -0.57	32.82 0.54 -0.45	34.39 0.63 -0.62	36.71 0.64 -0.77	46.73 0.70 -1.90	50.92 0.86 -2.21	51.28 0.69 -1.60	48.13 0.78 -1.41	45.45 0.78 -1.25	44.65 0.85 -1.22	43.75 0.83 -1.21	46.47 0.93 -1.33	47.72 0.95 -1.38	49.06 0.61 -1.48	55.75 0.21 -2.03	66.88 0.00 -2.22	68.19 0.00 -2.89	60.22 0.23 -2.36	50.61 0.24 -1.72	47.11 0.23 -1.49	46.19 0.44 -1.42	43.61 0.83 -1.23
STA_168_34_KV_BK1_2_REV_LBMP_B 345032	47.14 2.61 -2.39	41.02 2.51 -1.66	37.13 2.44 -1.19	35.11 2.32 -0.96	37.04 2.58 -1.32	39.79 2.86 -1.62	51.80 3.66 -4.01	56.62 4.12 -4.65	56.29 3.92 -3.39	52.36 3.45 -2.97	49.14 3.08 -2.65	48.04 2.90 -2.57	47.14 2.88 -2.55	50.20 3.18 -2.80	51.52 3.22 -2.92	53.20 3.10 -3.13	57.64 0.11 -4.02	69.18 0.13 -4.39	71.22 0.20 -5.73	62.59 0.29 -4.67	52.30 0.24 -3.41	48.49 0.14 -2.96	47.46 0.31 -2.82	44.02 0.04 -2.43
STA_56_34_KV_BUS2_REV_LBMP_B 345033	43.49 0.21 -1.14	37.83 0.18 -0.79	34.36 0.30 -0.57	32.57 0.29 -0.46	34.13 0.36 -0.63	36.43 0.35 -0.77	46.44 0.40 -1.92	50.51 0.43 -2.22	50.85 0.24 -1.62	47.82 0.46 -1.42	45.20 0.52 -1.26	44.36 0.55 -1.23	43.47 0.54 -1.22	46.22 0.66 -1.34	47.46 0.68 -1.40	48.74 0.28 -1.50	55.33 -0.11 -1.93	66.51 -0.26 -2.11	67.79 -0.26 -2.76	59.82 -0.06 -2.25	50.29 0.00 -1.64	46.77 -0.05 -1.42	45.86 0.18 -1.35	42.64 -0.08 -1.17
STA_56___34_KV_BUS2 355983	43.49 0.21 -1.14	37.83 0.18 -0.79	34.36 0.30 -0.57	32.57 0.29 -0.46	34.13 0.36 -0.63	36.43 0.35 -0.77	46.44 0.40 -1.92	50.51 0.43 -2.22	50.85 0.24 -1.62	47.82 0.46 -1.42	45.20 0.52 -1.26	44.36 0.55 -1.23	43.47 0.54 -1.22	46.22 0.66 -1.34	47.46 0.68 -1.40	48.74 0.28 -1.50	55.33 -0.11 -1.93	66.51 -0.26 -2.11	67.79 -0.26 -2.76	59.82 -0.06 -2.25	50.29 0.00 -1.64	46.77 -0.05 -1.42	45.86 0.18 -1.35	42.64 -0.08 -1.17
STA_67___115KV_BK2 355882	43.69 0.42 -1.13	38.01 0.37 -0.78	34.52 0.47 -0.56	32.75 0.48 -0.45	34.32 0.56 -0.62	36.64 0.56 -0.77	46.63 0.62 -1.90	50.67 0.62 -2.20	51.03 0.44 -1.60	47.99 0.64 -1.41	45.36 0.69 -1.25	44.56 0.77 -1.21	43.62 0.71 -1.20	46.38 0.84 -1.32	47.62 0.86 -1.38	48.87 0.42 -1.48	55.47 0.05 -1.91	66.62 -0.13 -2.09	67.89 -0.13 -2.72	59.91 0.06 -2.22	50.42 0.15 -1.62	46.89 0.09 -1.41	46.02 0.35 -1.34	42.79 0.08 -1.16
STA_7___115KV_9TRANS 80674	43.95 0.67 -1.13	38.27 0.63 -0.79	34.73 0.67 -0.57	32.95 0.67 -0.45	34.52 0.76 -0.62	36.85 0.78 -0.77	46.95 0.93 -1.90	51.06 1.00 -2.21	51.43 0.83 -1.60	48.36 1.01 -1.41	45.71 1.04 -1.25	44.90 1.11 -1.22	43.96 1.04 -1.21	46.73 1.19 -1.33	47.99 1.23 -1.38	49.29 0.85 -1.48	55.85 0.43 -1.92	67.08 0.32 -2.09	68.35 0.33 -2.73	60.38 0.52 -2.23	50.81 0.54 -1.62	47.26 0.45 -1.41	46.34 0.66 -1.34	43.04 0.33 -1.16
STA_82___115KV_TB1 80780	43.71 0.42 -1.15	38.06 0.41 -0.80	34.57 0.50 -0.57	32.76 0.48 -0.46	34.33 0.56 -0.63	36.65 0.56 -0.78	46.67 0.62 -1.93	50.76 0.67 -2.24	51.11 0.49 -1.63	48.01 0.64 -1.43	45.38 0.69 -1.27	44.58 0.77 -1.23	43.64 0.71 -1.23	46.40 0.84 -1.35	47.65 0.86 -1.40	48.94 0.47 -1.51	55.51 0.05 -1.94	66.72 -0.06 -2.13	67.94 -0.13 -2.77	59.95 0.06 -2.26	50.44 0.15 -1.65	46.96 0.14 -1.43	46.05 0.35 -1.36	42.81 0.08 -1.18
STEEL___WIND 323596	44.26 0.89 -1.24	38.52 0.81 -0.86	35.08 0.97 -0.62	33.37 1.05 -0.50	34.94 1.13 -0.68	37.27 1.13 -0.84	47.17 0.97 -2.08	51.31 1.05 -2.41	51.33 0.59 -1.75	48.31 0.83 -1.54	45.74 0.95 -1.37	44.97 1.06 -1.33	44.16 1.13 -1.32	46.86 1.19 -1.45	48.21 1.32 -1.51	49.15 0.57 -1.62	55.12 -0.54 -2.14	65.52 -1.48 -2.34	66.85 -1.50 -3.05	59.09 -1.04 -2.49	49.93 -0.53 -1.82	46.47 -0.50 -1.58	46.14 0.31 -1.50	44.05 1.21 -1.30
STEPHTWN_115KV_BK_2 55603	41.58 0.04 0.60	36.53 0.04 0.36	33.33 0.03 0.19	31.71 0.00 0.12	33.04 0.07 0.16	35.14 0.11 0.27	43.84 0.13 0.41	47.92 0.29 0.22	48.45 0.24 0.79	45.15 0.05 0.83	42.61 -0.13 0.67	41.77 -0.17 0.64	40.87 -0.21 0.63	43.32 -0.18 0.72	44.47 -0.14 0.78	46.18 0.05 0.83	52.72 0.16 0.95	61.89 0.19 2.96	55.96 0.26 9.60	52.40 0.12 5.35	48.53 0.15 0.27	45.21 0.18 0.37	43.67 0.00 0.66	41.26 0.25 0.54
STEBUBEN_REC_LFGE 323667	45.39 1.56 -1.69	39.46 1.44 -1.17	35.88 1.54 -0.84	34.00 1.50 -0.68	35.75 1.69 -0.93	38.29 1.84 -1.14	49.12 2.16 -2.84	53.39 2.25 -3.29	53.20 1.81 -2.39	49.69 1.65 -2.10	46.76 1.48 -1.87	45.80 1.41 -1.81	44.93 1.42 -1.80	47.87 1.68 -1.98	49.22 1.77 -2.06	50.54 1.36 -2.21	56.99 0.70 -2.78	68.61 0.91 -3.04	70.57 1.31 -3.97	62.31 1.44 -3.23	52.42 1.41 -2.36	48.57 1.13 -2.05	47.92 1.64 -1.95	44.48 1.25 -1.68
STILLWATER___SOLAR 323814	42.41 1.09 0.82	37.40 1.03 0.49	34.13 0.90 0.27	32.52 0.86 0.16	33.84 0.93 0.22	35.89 0.95 0.37	44.84 1.28 0.56	49.04 1.49 0.29	49.19 1.27 1.07	45.82 1.01 1.13	43.32 0.82 0.92	42.43 0.72 0.88	41.39 0.54 0.86	43.98 0.75 0.98	45.10 0.77 1.06	46.77 0.94 1.13	53.55 1.34 1.30	68.33 1.88 -1.80	75.14 2.09 -7.76	64.20 1.79 -4.78	49.89 1.60 0.37	46.43 1.54 0.50	44.67 1.24 0.90	41.77 0.96 0.74
STONY___BROOK 24151	44.39 1.35 -0.90	38.39 1.00 -0.54	34.38 0.60 -0.28	32.38 0.38 -0.17	33.67 0.30 -0.23	36.52 0.81 -0.40	45.17 0.44 -0.60	46.54 0.34 1.65	46.80 0.39 2.58	46.71 1.06 0.28	44.16 1.04 0.29	44.85 1.32 -0.95	44.19 1.54 -0.93	46.87 1.59 -1.07	48.35 1.82 -1.15	50.26 2.06 -1.23	57.41 2.46 -1.43	67.79 2.32 -0.81	68.98 2.28 -1.40	60.33 2.19 -0.51	50.16 1.12 -0.39	46.23 1.00 0.16	44.02 0.84 1.15	43.14 0.79 -0.80
STURGEON_POOL_HYD 23609	44.12 1.52 -0.46	38.42 1.29 -0.27	34.68 1.04 -0.15	32.84 0.92 -0.09	34.15 0.89 -0.12	36.54 1.02 -0.21	45.71 1.28 -0.31	49.36 1.34 -0.16	50.91 1.32 -0.60	47.90 1.33 -0.63	45.58 1.65 -0.51	44.73 1.79 -0.49	43.98 1.86 -0.48	46.62 2.00 -0.55	47.97 2.35 -0.59	49.95 2.51 -0.63	56.75 2.91 -0.73	67.68 2.91 -0.12	67.77 2.81 0.34	59.59 2.31 0.35	50.46 1.61 -0.21	47.44 1.77 -0.28	46.52 1.68 -0.50	43.50 1.54 -0.42



ST_LAW_115_BK7_LBMP 345037	41.95 0.08 0.28	35.36 0.07 1.57	31.19 0.07 2.37	29.11 0.06 2.78	32.11 0.07 1.09	30.47 0.07 4.90	38.81 -0.04 5.27	43.42 -0.05 4.38	44.99 0.05 4.05	45.65 0.09 0.38	43.46 0.04 0.00	42.32 0.04 0.30	41.75 0.04 0.00	41.63 -0.04 2.54	42.87 -0.09 2.42	44.93 -0.09 1.94	49.90 -0.05 3.56	64.66 0.00 0.00	64.15 0.07 1.21	54.09 0.12 3.66	47.56 0.10 1.19	44.23 0.05 1.21	44.46 0.13 0.00	41.76 0.21 0.00
ST_LAW_115_BK8_LBMP 345038	41.95 0.08 0.28	35.36 0.07 1.57	31.19 0.07 2.37	29.11 0.06 2.78	32.11 0.07 1.09	30.47 0.07 4.90	38.81 -0.04 5.27	43.42 -0.05 4.38	44.99 0.05 4.05	45.65 0.09 0.38	43.46 0.04 0.00	42.32 0.04 0.30	41.75 0.04 0.00	41.63 -0.04 2.54	42.87 -0.09 2.42	44.93 -0.09 1.94	49.90 -0.05 3.56	64.66 0.00 0.00	64.15 0.07 1.21	54.09 0.12 3.66	47.56 0.10 1.19	44.23 0.05 1.21	44.46 0.13 0.00	41.76 0.21 0.00
ST_LAW_230_BK5_LBMP 345035	42.06 0.08 0.16	35.97 0.04 0.92	32.13 0.03 1.39	30.23 0.03 1.63	32.53 0.03 0.64	32.50 0.07 2.88	40.99 -0.04 3.09	45.19 -0.10 2.57	46.61 0.00 2.38	45.76 0.05 0.22	43.46 0.04 0.00	42.40 0.00 0.18	41.75 0.04 0.00	42.63 -0.09 1.49	43.87 -0.09 1.42	45.69 -0.14 1.14	51.31 -0.11 2.09	64.66 0.00 0.00	64.58 0.00 0.71	55.55 0.06 2.15	48.00 0.05 0.70	44.73 0.05 0.71	44.42 0.09 0.00	41.72 0.17 0.00
ST_LAW_230_BK6_LBMP 345036	42.06 0.08 0.16	35.97 0.04 0.92	32.13 0.03 1.39	30.23 0.03 1.63	32.53 0.03 0.64	32.50 0.07 2.88	40.99 -0.04 3.09	45.19 -0.10 2.57	46.61 0.00 2.38	45.76 0.05 0.22	43.46 0.04 0.00	42.40 0.00 0.18	41.75 0.04 0.00	42.63 -0.09 1.49	43.87 -0.09 1.42	45.69 -0.14 1.14	51.31 -0.11 2.09	64.66 0.00 0.00	64.58 0.00 0.71	55.55 0.06 2.15	48.00 0.05 0.70	44.73 0.05 0.71	44.42 0.09 0.00	41.72 0.17 0.00
SUGRLOAF_69_KV_LOAD_REV_LBMP_G 345026	44.20 1.26 -0.80	38.44 1.11 -0.48	34.66 0.90 -0.26	32.78 0.80 -0.16	34.08 0.73 -0.22	36.51 0.85 -0.36	45.68 1.01 -0.55	49.19 1.05 -0.29	51.11 1.08 -1.05	48.19 1.15 -1.10	45.70 1.39 -0.89	44.88 1.45 -0.86	44.13 1.58 -0.84	46.81 1.64 -0.96	48.23 1.82 -1.03	50.09 2.02 -1.11	56.92 2.14 -1.27	67.76 2.39 -0.71	68.89 2.35 -1.24	59.98 1.90 -0.44	50.27 1.26 -0.36	47.24 1.36 -0.49	46.54 1.33 -0.88	43.56 1.29 -0.72
SWANROAD_115KV_TB1 355699	43.22 -0.13 -1.20	37.65 -0.04 -0.83	34.36 0.27 -0.60	32.66 0.35 -0.48	34.23 0.43 -0.66	36.40 0.28 -0.81	45.92 -0.22 -2.02	49.52 -0.67 -2.34	49.52 -1.18 -1.70	46.88 -0.55 -1.50	44.49 -0.26 -1.33	43.79 -0.09 -1.29	42.83 -0.17 -1.28	45.58 0.05 -1.41	46.90 0.05 -1.47	47.51 -1.03 -1.58	53.09 -2.46 -2.04	63.34 -3.56 -2.23	64.55 -3.66 -2.92	56.96 -3.05 -2.38	48.24 -2.14 -1.73	45.04 -1.86 -1.50	44.87 -0.89 -1.43	41.87 -0.91 -1.24
SYNERGY___BIOGAS 323694	44.80 1.47 -1.19	39.04 1.36 -0.82	35.52 1.44 -0.59	33.73 1.43 -0.48	35.38 1.59 -0.65	37.70 1.59 -0.80	47.92 1.81 -1.99	52.02 1.87 -2.31	52.14 1.47 -1.68	49.11 1.70 -1.48	46.42 1.69 -1.31	45.60 1.75 -1.27	44.60 1.63 -1.26	47.46 1.86 -1.39	48.78 1.95 -1.45	49.74 1.22 -1.55	56.06 0.54 -2.01	67.31 0.45 -2.20	68.68 0.52 -2.87	60.72 0.75 -2.34	51.18 0.83 -1.70	47.60 0.73 -1.48	46.98 1.24 -1.41	43.64 0.87 -1.22
SYRACUSE___ENERGY_ST1 323597	45.31 0.08 -3.08	39.26 0.04 -2.36	35.50 0.10 -1.91	33.60 0.10 -1.68	35.12 0.13 -1.85	38.31 0.14 -2.87	50.35 0.26 -5.97	54.82 0.33 -6.63	54.25 0.29 -4.97	50.05 0.28 -3.84	46.99 0.22 -3.36	46.10 0.21 -3.31	45.20 0.25 -3.24	48.45 0.27 -3.97	49.72 0.23 -4.11	51.40 0.14 -4.30	59.38 0.16 -5.71	70.45 0.19 -5.60	73.12 0.33 -7.50	64.48 0.29 -6.55	53.43 0.24 -4.54	49.50 0.14 -3.97	48.14 0.22 -3.59	44.69 0.04 -3.10
SYRACUSE___ENERGY_ST2 323598	45.31 0.08 -3.08	39.26 0.04 -2.36	35.50 0.10 -1.91	33.60 0.10 -1.68	35.12 0.13 -1.85	38.31 0.14 -2.87	50.35 0.26 -5.97	54.82 0.33 -6.63	54.25 0.29 -4.97	50.05 0.28 -3.84	46.99 0.22 -3.36	46.10 0.21 -3.31	45.20 0.25 -3.24	48.45 0.27 -3.97	49.72 0.23 -4.11	51.40 0.14 -4.30	59.38 0.16 -5.71	70.45 0.19 -5.60	73.12 0.33 -7.50	64.48 0.29 -6.55	53.43 0.24 -4.54	49.50 0.14 -3.97	48.14 0.22 -3.59	44.69 0.04 -3.10
SYRACUSE___POWER 24017	44.52 0.00 -2.38	38.76 0.00 -1.90	35.13 0.03 -1.60	33.31 0.03 -1.45	34.68 0.07 -1.48	37.87 0.07 -2.49	49.23 0.22 -4.89	53.48 0.29 -5.34	53.28 0.24 -4.05	49.13 0.23 -2.96	46.16 0.17 -2.57	45.26 0.13 -2.55	44.35 0.17 -2.48	47.59 0.18 -3.20	48.85 0.18 -3.29	50.42 0.05 -3.41	58.20 0.11 -4.58	69.07 0.13 -4.29	71.37 0.26 -5.82	63.16 0.29 -5.24	52.44 0.24 -3.55	48.64 0.14 -3.11	47.25 0.18 -2.75	43.92 0.00 -2.37
TALLMAN_138KV_BK151 55660	44.50 1.52 -0.84	38.68 1.33 -0.50	34.84 1.07 -0.27	32.91 0.92 -0.16	34.22 0.86 -0.23	36.71 1.02 -0.38	45.93 1.24 -0.57	49.44 1.29 -0.30	51.46 1.37 -1.10	48.52 1.42 -1.16	46.09 1.74 -0.94	45.27 1.79 -0.90	44.55 1.96 -0.88	47.26 2.03 -1.01	48.69 2.22 -1.09	50.57 2.44 -1.16	57.41 2.57 -1.33	68.32 2.91 -0.75	69.41 2.81 -1.31	60.35 2.25 -0.47	50.49 1.46 -0.38	47.54 1.63 -0.51	46.80 1.55 -0.92	43.81 1.50 -0.76
TEALLAVE_115KV_TB7 355573	44.12 -0.17 -2.15	38.43 -0.18 -1.76	34.91 -0.10 -1.52	33.12 -0.10 -1.39	34.44 -0.07 -1.37	37.63 -0.07 -2.39	48.68 0.00 -4.56	52.84 0.05 -4.95	52.76 0.00 -3.77	48.62 0.00 -2.68	45.73 0.00 -2.32	44.84 -0.04 -2.31	43.94 0.00 -2.23	47.17 0.00 -2.96	48.42 0.00 -3.04	49.95 -0.14 -3.13	57.59 -0.16 -4.24	68.33 -0.19 -3.86	70.44 -0.13 -5.28	62.35 -0.12 -4.83	51.83 -0.05 -3.23	48.10 -0.14 -2.84	46.72 -0.09 -2.48	43.48 -0.21 -2.14
TELGRAPH_34_KV_EAST 80808	44.09 0.76 -1.19	38.38 0.70 -0.83	34.99 0.90 -0.60	33.23 0.92 -0.48	34.82 1.03 -0.66	37.10 0.99 -0.81	47.00 0.88 -2.00	50.89 0.72 -2.32	51.02 0.34 -1.69	48.15 0.74 -1.48	45.60 0.87 -1.32	44.84 0.98 -1.28	43.90 0.92 -1.27	46.67 1.06 -1.39	48.02 1.18 -1.45	48.85 0.33 -1.56	54.89 -0.64 -2.02	65.70 -1.16 -2.21	66.87 -1.31 -2.88	59.06 -0.92 -2.35	49.93 -0.44 -1.71	46.52 -0.36 -1.49	46.01 0.27 -1.42	42.86 0.08 -1.22
TEMPLE___115KV_TB 2 55572	44.12 -0.17 -2.15	38.47 -0.15 -1.76	34.93 -0.07 -1.51	33.11 -0.10 -1.38	34.44 -0.07 -1.37	37.61 -0.07 -2.37	48.67 0.00 -4.55	52.83 0.05 -4.94	52.75 0.00 -3.76	48.67 0.05 -2.69	45.74 0.00 -2.32	44.89 0.00 -2.31	43.99 0.04 -2.24	47.21 0.04 -2.95	48.46 0.05 -3.03	50.00 -0.09 -3.13	57.64 -0.11 -4.23	68.40 -0.13 -3.87	70.51 -0.07 -5.28	62.40 -0.06 -4.83	51.83 -0.05 -3.23	48.14 -0.09 -2.84	46.77 -0.04 -2.48	43.53 -0.17 -2.14
TIANA___69_KV_BK 1 55817	44.17 1.14 -0.90	38.13 0.74 -0.54	34.11 0.33 -0.28	32.09 0.10 -0.17	33.40 0.03 -0.23	36.31 0.60 -0.40	44.86 0.13 -0.60	46.15 -0.05 1.66	46.49 0.10 2.59	45.97 0.32 0.29	44.12 1.00 0.30	44.80 1.28 -0.95	44.35 1.71 -0.93	46.87 1.59 -1.07	48.44 1.91 -1.15	50.45 2.25 -1.23	57.78 2.84 -1.43	68.64 3.17 -0.81	69.90 3.20 -1.40	60.85 2.71 -0.51	50.21 1.17 -0.39	46.32 1.09 0.16	43.97 0.80 1.16	43.48 1.12 -0.80



TILDEN___115KV_TB1 80814	44.52 0.00 -2.38	38.76 0.00 -1.90	35.13 0.03 -1.60	33.31 0.03 -1.45	34.68 0.07 -1.48	37.87 0.07 -2.49	49.23 0.22 -4.89	53.48 0.29 -5.34	53.28 0.24 -4.05	49.13 0.23 -2.96	46.16 0.17 -2.57	45.26 0.13 -2.55	44.35 0.17 -2.48	47.59 0.18 -3.20	48.85 0.18 -3.29	50.42 0.05 -3.41	58.20 0.11 -4.58	69.07 0.13 -4.29	71.37 0.26 -5.82	63.16 0.29 -5.24	52.44 0.24 -3.55	48.64 0.14 -3.11	47.25 0.18 -2.75	43.92 0.00 -2.37
TRIGEN___CC 323695	44.47 1.43 -0.90	38.53 1.14 -0.54	34.61 0.84 -0.29	32.66 0.67 -0.17	33.93 0.56 -0.24	36.63 0.92 -0.40	45.52 0.79 -0.61	48.55 0.77 0.06	50.21 0.83 -0.39	47.90 1.01 -0.95	45.58 1.48 -0.69	45.19 1.66 -0.95	44.52 1.88 -0.93	47.19 1.90 -1.07	48.62 2.09 -1.15	50.55 2.35 -1.24	57.53 2.57 -1.45	68.32 2.84 -0.82	69.45 2.74 -1.41	60.45 2.31 -0.51	50.31 1.26 -0.40	47.18 1.32 -0.47	45.95 1.15 -0.47	43.52 1.16 -0.81
TRINITY__115KV__4 BK 55933	41.28 -0.25 0.61	36.31 -0.18 0.36	33.09 -0.20 0.20	31.52 -0.19 0.12	32.80 -0.17 0.16	34.89 -0.14 0.27	43.44 -0.26 0.41	47.49 -0.14 0.22	48.00 -0.20 0.79	44.83 -0.28 0.84	42.35 -0.39 0.68	41.55 -0.38 0.65	40.70 -0.38 0.64	43.09 -0.40 0.73	44.28 -0.32 0.78	45.94 -0.19 0.84	52.39 -0.16 0.96	61.48 -0.26 2.92	55.53 -0.33 9.44	52.03 -0.35 5.26	48.09 -0.29 0.27	44.84 -0.18 0.37	43.35 -0.31 0.67	40.88 -0.12 0.55
UNION___PROCESSING_DRP 323587	43.72 0.42 -1.16	38.06 0.41 -0.80	34.57 0.50 -0.58	32.80 0.51 -0.46	34.37 0.60 -0.64	36.66 0.56 -0.78	46.73 0.66 -1.94	50.77 0.67 -2.25	51.12 0.49 -1.64	48.02 0.64 -1.44	45.39 0.69 -1.28	44.59 0.77 -1.24	43.69 0.75 -1.24	46.41 0.84 -1.36	47.70 0.91 -1.41	48.95 0.47 -1.52	55.52 0.05 -1.96	66.73 -0.06 -2.14	68.02 -0.07 -2.79	60.02 0.12 -2.27	50.46 0.15 -1.66	46.97 0.14 -1.44	46.10 0.40 -1.37	42.86 0.12 -1.18
UPPER HUDSON___HYD 24058	42.20 0.80 0.73	37.19 0.78 0.44	33.99 0.74 0.24	32.38 0.70 0.14	33.73 0.79 0.20	35.72 0.74 0.33	44.59 0.97 0.50	48.83 1.24 0.26	48.91 0.88 0.96	45.57 0.64 1.01	42.99 0.39 0.82	42.05 0.26 0.78	40.98 0.04 0.77	43.65 0.31 0.88	44.66 0.23 0.95	46.32 0.37 1.01	53.15 0.80 1.16	67.25 1.36 -1.23	72.57 1.69 -5.58	62.50 1.38 -3.49	49.64 1.31 0.33	46.30 1.36 0.45	44.50 0.97 0.80	41.51 0.62 0.66
UPPER RAQUET___HYD 24056	45.40 0.93 -2.33	48.29 0.81 -10.62	50.00 0.70 -15.81	50.86 0.64 -18.40	41.23 0.66 -7.43	68.57 0.78 -32.49	80.38 0.88 -35.38	78.46 0.91 -29.70	77.23 0.98 -27.26	49.91 0.87 -3.10	44.67 0.69 -0.56	45.74 0.64 -2.52	42.88 0.63 -0.54	61.96 0.49 -17.26	62.31 0.45 -16.48	60.75 0.42 -13.36	78.25 0.54 -24.20	66.18 0.58 -0.94	75.10 0.65 -9.15	83.30 0.69 -24.98	57.85 0.68 -8.52	54.77 0.82 -8.56	45.90 0.97 -0.60	43.07 1.00 -0.52
VALLEY44_115KV_TB2 355964	43.92 0.51 -1.27	38.25 0.52 -0.88	34.76 0.64 -0.64	33.03 0.70 -0.51	34.63 0.80 -0.70	36.98 0.81 -0.86	47.18 0.93 -2.13	51.14 0.81 -2.47	51.13 0.34 -1.80	48.16 0.64 -1.58	45.65 0.82 -1.41	44.88 0.94 -1.36	43.94 0.88 -1.36	46.81 1.11 -1.49	48.39 1.45 -1.55	49.10 0.47 -1.67	55.07 -0.64 -2.21	65.78 -1.29 -2.41	67.13 -1.31 -3.15	59.22 -0.98 -2.56	49.99 -0.54 -1.87	46.38 -0.64 -1.62	45.92 0.04 -1.55	42.68 -0.21 -1.33
VALLEY___115KV_TB 1-4 80826	42.48 0.29 -0.04	37.32 0.22 -0.24	34.03 0.17 -0.37	32.38 0.13 -0.43	33.40 0.10 -0.17	36.21 0.14 -0.76	45.29 0.35 -0.82	48.82 0.29 -0.68	49.86 0.24 -0.63	46.18 0.18 -0.06	43.59 0.17 0.00	42.84 0.21 -0.05	41.79 0.08 0.00	44.52 -0.09 -0.39	45.62 -0.14 -0.38	47.08 -0.19 -0.30	54.06 0.00 -0.55	64.59 -0.06 0.00	65.68 0.20 -0.19	58.49 0.29 -0.57	49.08 0.24 -0.18	46.03 0.45 -0.19	44.77 0.44 0.00	41.88 0.33 0.00
VINEGAR_115_KV_917_CH_LD_REV_LBMP_E 345011	44.59 1.64 -0.81	38.85 1.44 -0.56	35.17 1.27 -0.40	33.33 1.18 -0.32	34.74 1.16 -0.45	37.13 1.27 -0.55	47.24 1.76 -1.36	51.39 1.96 -1.58	52.10 1.96 -1.15	48.74 1.79 -1.01	46.00 1.69 -0.90	45.15 1.70 -0.87	44.20 1.63 -0.86	46.75 1.59 -0.95	48.10 1.72 -0.99	49.81 1.78 -1.06	57.02 2.14 -1.36	68.67 2.52 -1.49	69.92 2.68 -1.95	61.70 2.48 -1.59	51.90 2.09 -1.16	48.35 1.95 -1.00	47.15 1.86 -0.96	43.91 1.54 -0.83
VISCHER___FERRY HYD 24020	41.79 0.67 1.02	36.87 0.63 0.61	33.70 0.53 0.33	32.13 0.51 0.20	33.39 0.53 0.27	35.41 0.56 0.46	44.22 0.79 0.69	48.39 0.91 0.37	48.49 0.83 1.33	45.22 0.69 1.40	42.88 0.61 1.14	42.04 0.55 1.09	41.14 0.50 1.07	43.61 0.62 1.22	44.75 0.68 1.31	46.40 0.85 1.41	53.02 1.13 1.61	69.80 1.42 -3.72	81.67 1.43 -14.95	67.79 1.15 -9.01	49.17 0.97 0.46	45.77 1.00 0.62	43.96 0.75 1.12	41.13 0.50 0.92
V_A_10_SYNC_DSASP 323832	43.57 0.29 -1.14	37.94 0.29 -0.79	34.56 0.50 -0.57	32.85 0.57 -0.46	34.39 0.63 -0.63	36.64 0.56 -0.77	46.21 0.18 -1.91	49.97 0.18 -2.22	50.11 -0.49 -1.61	47.31 -0.05 -1.42	44.80 0.13 -1.26	44.10 0.30 -1.22	43.17 0.25 -1.22	45.95 0.40 -1.33	47.27 0.50 -1.39	48.08 -0.38 -1.49	54.00 -1.44 -1.93	64.57 -2.20 -2.11	65.70 -2.35 -2.76	57.98 -1.90 -2.25	49.02 -1.26 -1.64	45.77 -1.04 -1.42	45.33 -0.35 -1.35	42.35 -0.37 -1.17
V_CMM_10_SYNC_DSASP 323787	42.16 0.29 0.28	35.51 0.22 1.57	31.32 0.20 2.37	29.24 0.19 2.78	32.24 0.20 1.09	30.65 0.25 4.90	39.03 0.18 5.27	43.61 0.14 4.38	45.18 0.24 4.05	45.84 0.28 0.38	43.67 0.26 0.00	42.53 0.26 0.30	41.88 0.17 0.00	41.85 0.18 2.54	43.10 0.14 2.42	45.12 0.09 1.94	50.11 0.16 3.56	64.98 0.32 0.00	64.41 0.33 1.21	54.32 0.35 3.66	47.80 0.34 1.19	44.45 0.27 1.21	44.55 0.22 0.00	41.84 0.29 0.00
V_CMP_10_SYNC_DSASP 323788	43.42 1.14 -0.14	38.52 0.88 -0.78	35.51 0.84 -1.18	34.00 0.80 -1.38	34.51 0.83 -0.54	38.74 0.99 -2.44	46.70 -0.04 -2.63	49.56 -0.48 -2.18	50.86 -0.15 -2.02	46.08 -0.05 -0.19	43.28 -0.13 0.00	42.43 -0.30 -0.15	41.83 0.13 0.00	44.64 -0.84 -1.27	45.41 -1.18 -1.21	46.66 -1.27 -0.97	54.16 -1.13 -1.78	64.01 -0.65 0.00	65.64 -0.26 -0.60	59.57 0.12 -1.82	49.44 0.20 -0.59	46.18 0.18 -0.60	45.35 1.02 0.00	43.59 2.04 0.00
V_D_10_SYNC_DSASP 323841	45.42 0.63 -2.65	52.37 0.55 -14.96	56.65 0.50 -22.66	58.82 0.48 -26.52	44.05 0.50 -10.41	82.67 0.53 -46.84	94.95 0.53 -50.30	90.20 0.53 -41.83	88.34 0.69 -38.67	50.17 0.64 -3.59	44.02 0.61 0.00	46.05 0.60 -2.87	42.29 0.58 0.00	69.03 0.53 -24.28	68.98 0.50 -23.10	65.93 0.47 -18.49	88.11 0.59 -34.01	65.50 0.84 0.00	77.69 0.85 -11.55	93.38 0.81 -34.94	60.68 0.68 -11.35	57.57 0.64 -11.55	44.99 0.67 0.00	42.30 0.75 0.00
V_E_10_SYNC_DSASP 323830	46.91 3.20 -1.57	40.71 2.77 -1.09	36.79 2.51 -0.78	34.75 2.29 -0.63	36.35 2.35 -0.86	39.05 2.68 -1.06	50.64 3.88 -2.63	55.30 4.40 -3.05	55.37 4.16 -2.22	51.34 3.45 -1.95	47.97 2.82 -1.74	46.95 2.68 -1.68	45.72 2.33 -1.67	48.35 2.30 -1.84	49.66 2.36 -1.92	51.41 2.39 -2.06	59.36 3.26 -2.58	71.68 4.20 -2.82	74.26 5.29 -3.68	65.76 5.13 -3.00	55.22 4.38 -2.19	51.11 3.81 -1.90	49.82 3.68 -1.81	46.27 3.16 -1.56



V_F_30_NSYNC___DSASP 323816	42.54 1.18 0.78	37.46 1.07 0.47	34.21 0.97 0.25	32.60 0.92 0.15	33.88 0.96 0.21	35.98 1.02 0.35	44.96 1.37 0.53	49.15 1.58 0.28	49.34 1.37 1.02	45.96 1.10 1.08	43.46 0.91 0.87	42.55 0.81 0.83	41.52 0.63 0.82	44.16 0.88 0.94	45.24 0.86 1.01	46.92 1.03 1.08	53.72 1.45 1.24	68.21 2.01 -1.54	74.30 2.22 -6.78	63.68 1.84 -4.20	49.96 1.66 0.35	46.50 1.59 0.48	44.80 1.33 0.86	41.84 1.00 0.71
V_F_30_SYNC_DSASP 323786	41.43 -0.08 0.63	36.44 -0.04 0.37	33.22 -0.07 0.20	31.64 -0.06 0.12	32.93 -0.03 0.17	34.99 -0.04 0.28	43.60 -0.09 0.43	47.67 0.05 0.23	48.17 0.00 0.82	44.98 -0.09 0.87	42.50 -0.22 0.70	41.65 -0.26 0.67	40.80 -0.25 0.66	43.20 -0.27 0.75	44.39 -0.18 0.81	46.05 -0.05 0.87	52.52 0.00 0.99	62.05 0.00 2.61	57.00 0.00 8.29	52.93 -0.12 4.58	48.27 -0.10 0.28	45.01 0.00 0.38	43.51 -0.13 0.69	41.02 0.04 0.57
V_XM_10_SYNC_DSASP 323789	43.42 1.14 -0.14	38.52 0.88 -0.78	35.51 0.84 -1.18	34.00 0.80 -1.38	34.51 0.83 -0.54	38.74 0.99 -2.44	46.70 -0.04 -2.63	49.56 -0.48 -2.18	50.86 -0.15 -2.02	46.08 -0.05 -0.19	43.28 -0.13 0.00	42.43 -0.30 -0.15	41.83 0.13 0.00	44.64 -0.84 -1.27	45.41 -1.18 -1.21	46.66 -1.27 -0.97	54.16 -1.13 -1.78	64.01 -0.65 0.00	65.64 -0.26 -0.60	59.57 0.12 -1.82	49.44 0.20 -0.59	46.18 0.18 -0.60	45.35 1.02 0.00	43.59 2.04 0.00
W.BABYLN_69_KV_BK1 56697	44.89 1.85 -0.90	38.83 1.44 -0.54	34.81 1.04 -0.28	32.79 0.80 -0.17	34.10 0.73 -0.24	36.94 1.24 -0.40	45.74 1.01 -0.61	47.36 0.91 1.40	47.89 1.03 2.13	46.95 1.10 0.09	44.92 1.65 0.15	45.36 1.83 -0.95	44.81 2.17 -0.93	47.36 2.08 -1.07	48.89 2.36 -1.15	50.92 2.72 -1.23	58.05 3.10 -1.44	68.96 3.49 -0.81	70.16 3.46 -1.41	61.08 2.94 -0.51	50.65 1.61 -0.39	46.87 1.54 0.06	44.79 1.37 0.91	43.89 1.54 -0.80
W.NYACK_69_KV_BK 521_REV_LBMP_G 345027	44.72 1.73 -0.85	38.84 1.47 -0.51	34.97 1.21 -0.28	33.04 1.05 -0.17	34.36 0.99 -0.23	36.85 1.17 -0.38	46.11 1.41 -0.58	49.69 1.53 -0.31	51.67 1.57 -1.12	48.72 1.61 -1.18	46.28 1.91 -0.95	45.45 1.96 -0.91	44.73 2.13 -0.89	47.45 2.21 -1.03	48.89 2.41 -1.10	50.77 2.63 -1.18	57.70 2.84 -1.35	68.65 3.23 -0.76	69.76 3.13 -1.33	60.64 2.54 -0.47	50.78 1.75 -0.38	47.78 1.86 -0.52	47.04 1.77 -0.94	44.03 1.70 -0.77
W49TH_ST_138_KV_38M43_REV_LBMP_J 345008	45.06 2.02 -0.90	39.20 1.81 -0.54	35.29 1.51 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	37.08 1.38 -0.40	46.36 1.63 -0.61	49.94 1.77 -0.32	52.07 1.91 -1.17	49.20 2.02 -1.24	46.80 2.39 -1.00	46.05 2.51 -0.96	45.32 2.67 -0.94	47.99 2.70 -1.08	49.40 2.86 -1.16	51.30 3.10 -1.24	58.30 3.37 -1.42	69.14 3.69 -0.80	70.22 3.53 -1.40	61.01 2.88 -0.50	50.95 1.90 -0.40	48.03 2.09 -0.55	47.35 2.04 -0.99	44.32 1.95 -0.81
W50THST__13_KV_LOAD 356117	45.31 2.28 -0.90	39.42 2.03 -0.54	35.49 1.71 -0.29	33.46 1.46 -0.18	34.77 1.39 -0.24	37.30 1.59 -0.40	46.67 1.94 -0.61	50.33 2.15 -0.32	52.47 2.30 -1.17	49.56 2.39 -1.24	47.15 2.74 -1.00	46.39 2.85 -0.96	45.69 3.04 -0.94	48.34 3.05 -1.08	49.76 3.22 -1.16	51.73 3.52 -1.24	58.73 3.80 -1.42	69.66 4.20 -0.80	70.74 4.05 -1.40	61.42 3.29 -0.50	51.29 2.24 -0.40	48.35 2.41 -0.55	47.66 2.35 -0.99	44.57 2.20 -0.81
WADING RIVER_IC_1 23522	43.84 0.80 -0.90	37.87 0.48 -0.54	33.91 0.13 -0.28	31.90 -0.10 -0.17	33.17 -0.20 -0.23	36.03 0.32 -0.40	44.59 -0.13 -0.60	45.91 -0.29 1.66	46.15 -0.24 2.60	46.11 0.46 0.29	43.59 0.48 0.30	44.33 0.81 -0.95	43.68 1.04 -0.93	46.34 1.06 -1.07	47.80 1.27 -1.15	49.79 1.60 -1.23	56.92 1.98 -1.43	67.54 2.07 -0.81	68.73 2.03 -1.40	59.87 1.73 -0.51	49.67 0.63 -0.39	45.73 0.50 0.16	43.48 0.31 1.16	42.68 0.33 -0.80
WADING RIVER_IC_2 23547	43.84 0.80 -0.90	37.87 0.48 -0.54	33.91 0.13 -0.28	31.90 -0.10 -0.17	33.17 -0.20 -0.23	36.03 0.32 -0.40	44.59 -0.13 -0.60	45.91 -0.29 1.66	46.15 -0.24 2.60	46.11 0.46 0.29	43.59 0.48 0.30	44.33 0.81 -0.95	43.68 1.04 -0.93	46.34 1.06 -1.07	47.80 1.27 -1.15	49.79 1.60 -1.23	56.92 1.98 -1.43	67.54 2.07 -0.81	68.73 2.03 -1.40	59.87 1.73 -0.51	49.67 0.63 -0.39	45.73 0.50 0.16	43.48 0.31 1.16	42.68 0.33 -0.80
WADING RIVER_IC_3 23601	43.84 0.80 -0.90	37.87 0.48 -0.54	33.91 0.13 -0.28	31.90 -0.10 -0.17	33.17 -0.20 -0.23	36.03 0.32 -0.40	44.59 -0.13 -0.60	45.91 -0.29 1.66	46.15 -0.24 2.60	46.11 0.46 0.29	43.59 0.48 0.30	44.33 0.81 -0.95	43.68 1.04 -0.93	46.34 1.06 -1.07	47.80 1.27 -1.15	49.79 1.60 -1.23	56.92 1.98 -1.43	67.54 2.07 -0.81	68.73 2.03 -1.40	59.87 1.73 -0.51	49.67 0.63 -0.39	45.73 0.50 0.16	43.48 0.31 1.16	42.68 0.33 -0.80
WALDENNY_12_KV_BK2 80841	44.26 0.88 -1.23	38.56 0.85 -0.86	35.08 0.97 -0.62	33.37 1.05 -0.49	34.97 1.16 -0.68	37.31 1.17 -0.84	47.21 1.01 -2.07	51.07 0.81 -2.40	51.08 0.34 -1.75	48.30 0.83 -1.54	45.82 1.04 -1.37	45.05 1.15 -1.32	44.11 1.08 -1.32	46.90 1.24 -1.44	48.30 1.41 -1.51	49.10 0.52 -1.62	54.92 -0.70 -2.10	65.53 -1.42 -2.30	66.79 -1.50 -3.00	58.92 -1.15 -2.44	49.90 -0.54 -1.78	46.39 -0.54 -1.55	46.11 0.31 -1.47	42.95 0.12 -1.27
WALDEN__HYDRO 24148	44.28 1.43 -0.71	38.53 1.25 -0.42	34.73 1.00 -0.23	32.85 0.89 -0.14	34.19 0.86 -0.19	36.61 0.99 -0.32	45.80 1.19 -0.48	49.35 1.24 -0.26	51.19 1.27 -0.93	48.20 1.29 -0.98	45.73 1.52 -0.79	44.87 1.53 -0.76	44.12 1.67 -0.74	46.79 1.72 -0.85	48.21 1.91 -0.92	50.11 2.16 -0.98	56.94 2.30 -1.13	67.94 2.65 -0.63	69.01 2.61 -1.11	60.16 2.13 -0.39	50.43 1.46 -0.32	47.46 1.63 -0.44	46.62 1.51 -0.78	43.65 1.45 -0.64
WARRENSBURG____ 23737	42.21 0.80 0.73	37.19 0.77 0.44	33.99 0.74 0.24	32.38 0.70 0.14	33.73 0.80 0.20	35.72 0.74 0.33	44.59 0.97 0.50	48.78 1.20 0.26	48.91 0.88 0.96	45.52 0.60 1.01	42.99 0.39 0.82	42.05 0.26 0.78	41.02 0.08 0.77	43.51 0.18 0.88	44.66 0.23 0.95	46.33 0.38 1.01	53.21 0.86 1.16	67.25 1.36 -1.23	72.57 1.70 -5.58	62.50 1.38 -3.49	49.63 1.31 0.33	46.31 1.36 0.45	44.54 1.02 0.80	41.72 0.83 0.66
WATERSIDE____6 8 9 23538	44.89 1.85 -0.90	39.05 1.66 -0.54	35.22 1.44 -0.29	33.27 1.27 -0.18	34.57 1.19 -0.24	36.98 1.27 -0.40	46.06 1.32 -0.61	49.70 1.53 -0.32	51.73 1.57 -1.17	49.01 1.84 -1.24	46.63 2.21 -1.00	46.77 2.38 -1.80	47.18 2.54 -2.93	47.81 2.52 -1.08	50.88 2.54 -2.95	52.70 2.82 -2.92	59.00 3.00 -2.50	69.16 3.23 -1.27	70.17 3.07 -1.80	61.54 2.48 -1.43	50.56 1.51 -0.40	47.85 1.91 -0.55	47.22 1.91 -0.99	44.27 1.91 -0.81
WATKINRD_115KV_LN8_ILLION 55919	42.35 0.17 -0.04	37.24 0.15 -0.24	33.96 0.10 -0.37	32.35 0.10 -0.43	33.40 0.10 -0.17	36.17 0.11 -0.76	45.16 0.22 -0.82	48.77 0.24 -0.68	49.81 0.20 -0.63	46.18 0.18 -0.06	43.54 0.13 0.00	42.80 0.17 -0.05	41.83 0.13 0.00	44.74 0.13 -0.39	45.89 0.14 -0.38	47.45 0.19 -0.30	54.33 0.27 -0.55	64.92 0.26 0.00	65.81 0.33 -0.19	58.49 0.29 -0.57	49.08 0.24 -0.18	45.81 0.23 -0.19	44.51 0.18 0.00	41.72 0.17 0.00



WDELAWARE___HYD 323627	44.25 1.51 -0.60	38.50 1.29 -0.36	34.73 1.04 -0.19	32.90 0.95 -0.12	34.22 0.93 -0.16	36.63 1.06 -0.27	45.94 1.41 -0.41	49.55 1.49 -0.22	51.24 1.47 -0.78	48.14 1.38 -0.83	45.56 1.48 -0.67	44.67 1.45 -0.64	43.79 1.46 -0.63	46.61 1.68 -0.72	48.02 1.86 -0.77	50.00 2.21 -0.83	56.87 2.41 -0.95	68.10 2.91 -0.53	69.23 3.01 -0.93	60.44 2.48 -0.33	50.77 1.85 -0.27	47.71 1.95 -0.37	46.76 1.77 -0.66	43.42 1.33 -0.54
WEST BABYLON___IC 23714	44.89 1.85 -0.90	38.83 1.44 -0.54	34.81 1.04 -0.28	32.79 0.80 -0.17	34.10 0.73 -0.24	36.94 1.24 -0.40	45.74 1.01 -0.61	47.36 0.91 1.40	47.89 1.03 2.13	46.95 1.10 0.09	44.92 1.65 0.15	45.36 1.83 -0.95	44.81 2.17 -0.93	47.36 2.08 -1.07	48.89 2.36 -1.15	50.92 2.72 -1.23	58.05 3.10 -1.44	68.96 3.49 -0.81	70.16 3.46 -1.41	61.08 2.94 -0.51	50.65 1.61 -0.39	46.87 1.54 0.06	44.79 1.37 0.91	43.89 1.54 -0.80
WEST CANADA___HYD 24049	42.27 0.08 -0.04	37.17 0.07 -0.24	33.89 0.03 -0.37	32.29 0.03 -0.43	33.34 0.03 -0.17	36.10 0.04 -0.76	45.03 0.09 -0.82	48.63 0.10 -0.68	49.71 0.10 -0.63	46.04 0.05 -0.06	43.46 0.04 0.00	42.67 0.04 -0.05	41.75 0.04 0.00	44.65 0.04 -0.39	45.80 0.05 -0.38	47.36 0.09 -0.30	54.17 0.11 -0.55	64.79 0.13 0.00	65.61 0.13 -0.19	58.32 0.12 -0.57	48.93 0.10 -0.18	45.67 0.09 -0.19	44.42 0.09 0.00	41.55 0.00 0.00
WESTERN_NY_WIND 24143	44.80 1.47 -1.19	39.01 1.33 -0.82	35.53 1.44 -0.59	33.73 1.43 -0.48	35.38 1.59 -0.65	37.70 1.59 -0.80	47.92 1.81 -1.99	51.98 1.82 -2.31	52.14 1.47 -1.68	49.07 1.65 -1.48	46.38 1.65 -1.31	45.60 1.75 -1.27	44.56 1.58 -1.27	47.42 1.81 -1.39	48.74 1.91 -1.45	49.74 1.22 -1.56	56.01 0.48 -2.01	67.25 0.39 -2.20	68.56 0.39 -2.87	60.67 0.69 -2.34	51.14 0.78 -1.71	47.56 0.68 -1.48	46.94 1.20 -1.41	43.60 0.83 -1.22
WESTOVER___LESR 323668	44.33 0.63 -1.56	38.53 0.59 -1.08	34.84 0.57 -0.78	33.02 0.57 -0.63	34.62 0.63 -0.86	37.00 0.64 -1.06	47.53 0.79 -2.62	51.70 0.81 -3.04	51.89 0.69 -2.21	48.57 0.69 -1.94	45.84 0.69 -1.73	44.94 0.68 -1.67	44.08 0.71 -1.67	46.84 0.80 -1.83	48.20 0.91 -1.91	49.71 0.70 -2.05	56.68 0.54 -2.63	68.12 0.58 -2.88	69.70 0.65 -3.75	61.32 0.63 -3.06	51.46 0.58 -2.23	47.83 0.50 -1.94	46.84 0.66 -1.84	43.64 0.50 -1.59
WETHRSFD_WT_PWR 323626	44.23 0.72 -1.38	38.51 0.70 -0.95	35.02 0.84 -0.69	33.30 0.92 -0.55	34.95 1.06 -0.76	37.30 1.06 -0.93	47.40 0.97 -2.31	51.53 1.01 -2.68	51.43 0.49 -1.95	48.15 0.51 -1.71	45.46 0.52 -1.52	44.57 0.51 -1.48	43.80 0.63 -1.47	46.53 0.71 -1.61	47.88 0.82 -1.68	48.95 0.19 -1.80	55.05 -0.75 -2.29	65.80 -1.36 -2.51	67.45 -1.11 -3.27	59.66 -0.63 -2.66	50.35 -0.24 -1.94	46.81 -0.27 -1.69	46.29 0.35 -1.61	44.06 1.12 -1.39
WHAVSTOR_138KV_BK127 55557	44.47 1.47 -0.86	38.66 1.29 -0.51	34.84 1.07 -0.28	32.88 0.89 -0.17	34.19 0.83 -0.23	36.68 0.99 -0.38	45.89 1.19 -0.58	49.40 1.24 -0.31	51.43 1.32 -1.12	48.50 1.38 -1.18	46.06 1.69 -0.96	45.28 1.79 -0.92	44.52 1.92 -0.90	47.19 1.95 -1.03	48.62 2.13 -1.10	50.50 2.35 -1.18	57.38 2.51 -1.36	68.20 2.78 -0.76	69.30 2.68 -1.33	60.30 2.19 -0.47	50.44 1.41 -0.38	47.46 1.54 -0.52	46.78 1.51 -0.94	43.78 1.45 -0.77
WHAVSTOR_138_KV_BK127_REV_LBMP_G 345015	44.47 1.47 -0.86	38.66 1.29 -0.51	34.84 1.07 -0.28	32.88 0.89 -0.17	34.19 0.83 -0.23	36.68 0.99 -0.38	45.89 1.19 -0.58	49.40 1.24 -0.31	51.43 1.32 -1.12	48.50 1.38 -1.18	46.06 1.69 -0.96	45.28 1.79 -0.92	44.52 1.92 -0.90	47.19 1.95 -1.03	48.62 2.13 -1.10	50.50 2.35 -1.18	57.38 2.51 -1.36	68.20 2.78 -0.76	69.30 2.68 -1.33	60.30 2.19 -0.47	50.44 1.41 -0.38	47.46 1.54 -0.52	46.78 1.51 -0.94	43.78 1.45 -0.77
WHITEHAL_115KV_TB1 80871	42.94 1.56 0.75	37.84 1.44 0.45	34.59 1.34 0.24	32.95 1.27 0.15	34.32 1.39 0.20	36.38 1.41 0.34	45.55 1.94 0.51	49.83 2.25 0.27	49.87 1.86 0.99	46.32 1.42 1.04	43.62 1.04 0.85	42.63 0.85 0.58	41.50 0.75 0.79	44.06 0.75 0.90	45.18 0.77 0.97	46.96 1.03 1.04	53.98 1.66 1.19	68.54 2.52 -1.36	74.44 3.07 -6.08	64.01 2.59 -3.78	50.70 2.38 0.34	47.20 2.27 0.46	45.32 1.82 0.83	42.41 1.54 0.68
WHITEPLN_13_KV_LOAD 356215	45.14 2.11 -0.90	39.23 1.84 -0.54	35.36 1.57 -0.29	33.40 1.40 -0.18	34.67 1.29 -0.24	37.26 1.55 -0.40	46.63 1.90 -0.61	50.23 2.06 -0.32	52.32 2.16 -1.17	49.47 2.30 -1.24	46.98 2.56 -1.00	46.14 2.60 -0.96	45.36 2.71 -0.94	48.12 2.83 -1.08	49.49 2.95 -1.16	51.44 3.24 -1.24	58.52 3.59 -1.42	69.34 3.88 -0.80	70.54 3.85 -1.39	61.30 3.17 -0.50	51.24 2.19 -0.40	48.21 2.27 -0.55	47.53 2.22 -0.98	44.44 2.08 -0.81
WM_FLOYD_69_KV_BK2 356380	44.17 1.14 -0.90	38.16 0.77 -0.54	34.18 0.40 -0.28	32.15 0.16 -0.17	33.43 0.07 -0.23	36.31 0.60 -0.40	44.99 0.26 -0.60	46.25 0.05 1.65	46.50 0.10 2.59	45.93 0.28 0.29	43.94 0.82 0.30	44.59 1.06 -0.95	44.10 1.46 -0.93	46.61 1.33 -1.07	48.12 1.59 -1.15	50.12 1.93 -1.23	57.30 2.35 -1.43	67.99 2.52 -0.81	69.25 2.55 -1.40	60.33 2.19 -0.51	49.87 0.83 -0.39	46.05 0.82 0.16	43.80 0.62 1.15	43.31 0.96 -0.80
WOODARD___115KV_TB2 355635	44.46 -0.21 -2.53	38.68 -0.18 -2.01	35.04 -0.13 -1.68	33.21 -0.13 -1.52	34.61 -0.10 -1.57	37.80 -0.11 -2.60	49.23 -0.04 -5.15	53.50 0.00 -5.65	53.21 -0.05 -4.27	49.05 -0.05 -3.16	46.11 -0.04 -2.74	45.21 -0.09 -2.72	44.31 -0.04 -2.65	47.55 -0.04 -3.38	48.82 -0.05 -3.48	50.39 -0.19 -3.61	58.15 -0.21 -4.85	68.97 -0.26 -4.57	71.29 -0.20 -6.19	63.06 -0.12 -5.55	52.32 -0.10 -3.77	48.51 -0.18 -3.30	47.17 -0.09 -2.93	43.87 -0.21 -2.53
WOODMERE_69_KV_BK1 55827	45.06 2.02 -0.90	39.09 1.70 -0.54	35.08 1.31 -0.29	33.08 1.08 -0.17	34.40 1.03 -0.24	37.16 1.45 -0.40	46.05 1.32 -0.61	49.68 1.29 -0.53	51.74 1.37 -1.38	48.91 1.52 -1.46	46.43 2.13 -0.89	45.92 2.38 -0.95	45.31 2.67 -0.94	48.07 2.79 -1.07	49.58 3.04 -1.15	51.58 3.38 -1.24	58.71 3.75 -1.45	69.68 4.20 -0.82	70.82 4.11 -1.41	61.72 3.57 -0.51	51.28 2.24 -0.40	48.20 2.09 -0.72	46.90 1.77 -0.80	44.10 1.75 -0.81
YORK___WARBASSE 23770	44.81 1.77 -0.90	38.94 1.55 -0.54	35.22 1.44 -0.29	33.50 1.50 -0.18	34.80 1.42 -0.24	37.19 1.48 -0.40	45.75 1.01 -0.61	49.42 1.24 -0.32	51.49 1.32 -1.17	48.92 1.75 -1.24	46.63 2.21 -1.00	49.33 2.55 -4.19	52.77 2.46 -8.60	47.77 2.48 -1.08	55.80 2.36 -8.06	57.28 2.63 -7.69	61.90 2.84 -5.55	70.37 3.10 -2.61	71.20 2.94 -2.96	64.00 2.31 -4.06	50.56 1.51 -0.40	47.85 1.91 -0.55	47.26 1.95 -0.99	44.52 2.16 -0.81