

# Day Ahead Market Generator LBMP

Generator Data		07/07/2023																								
Name	PTID	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
59TH STREET_GT_1 24138	EDT	43.44	39.43	35.59	34.89	33.19	34.44	36.57	40.96	42.58	46.54	47.00	50.97	55.92	60.68	60.35	73.56	81.28	85.42	67.20	56.52	48.57	46.84	43.98	38.02	
		1.59	1.70	2.06	1.94	1.97	2.10	2.26	2.29	2.53	2.74	3.06	2.67	2.90	3.10	3.15	3.61	3.96	4.86	3.47	3.41	2.37	1.92	2.30	2.34	
		-12.30	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.90	-4.41	-5.80	-1.54	-6.62	-8.41	-12.61	-10.96	-23.72	-28.41	-22.71	-19.77	-2.17	-10.27	-15.43	-10.21	-3.59	
74TH STREET_GT_1 24260	EDT	43.44	39.44	35.59	34.89	33.21	34.41	36.54	40.90	42.51	46.47	46.92	50.89	55.79	60.51	60.21	73.38	81.23	85.25	67.07	56.52	48.57	46.84	43.92	38.15	
		1.60	1.70	2.06	1.94	2.00	2.06	2.23	2.23	2.46	2.66	2.97	2.58	2.77	2.92	3.01	3.42	3.91	4.69	3.34	3.41	2.37	1.92	2.23	2.47	
		-12.30	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.91	-4.41	-5.80	-1.54	-6.62	-8.41	-12.61	-10.96	-23.72	-28.41	-22.71	-19.77	-2.17	-10.27	-15.43	-10.21	-3.59	
74TH STREET_GT_2 24261	EDT	43.44	39.44	35.59	34.89	33.21	34.41	36.54	40.90	42.51	46.47	46.92	50.89	55.79	60.51	60.21	73.38	81.23	85.25	67.07	56.52	48.57	46.84	43.92	38.15	
		1.60	1.70	2.06	1.94	2.00	2.06	2.23	2.23	2.46	2.66	2.97	2.58	2.77	2.92	3.01	3.42	3.91	4.69	3.34	3.41	2.37	1.92	2.23	2.47	
		-12.30	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.91	-4.41	-5.80	-1.54	-6.62	-8.41	-12.61	-10.96	-23.72	-28.41	-22.71	-19.77	-2.17	-10.27	-15.43	-10.21	-3.59	
ADK HUDSON___FALLS 24011	EDT	71.60	58.84	43.27	46.04	40.35	38.37	48.34	65.35	53.24	60.46	60.06	83.68	89.57	111.42	107.88	167.43	186.94	178.60	145.72	81.18	80.01	96.73	80.62	47.61	
		2.78	2.70	2.67	2.42	2.39	2.65	2.52	2.56	2.99	3.23	3.65	3.79	4.06	4.23	4.30	4.12	4.16	4.63	3.74	4.23	3.16	2.77	2.80	2.82	
		-39.28	-26.79	-10.29	-15.53	-9.81	-4.91	-16.48	-33.03	-14.61	-19.23	-14.00	-38.21	-40.89	-62.22	-57.34	-117.08	-133.87	-116.12	-98.02	-26.01	-40.91	-64.46	-46.34	-12.69	
ADK RESOURCE___RCVRY 23798	EDT	72.07	59.26	43.61	46.35	40.64	38.69	48.65	65.56	61.11	72.77	60.07	83.44	89.54	111.06	107.49	166.14	185.64	177.32	144.69	80.77	80.13	96.51	80.36	47.92	
		3.10	3.02	2.97	2.67	2.64	2.96	2.79	2.89	3.35	3.61	4.11	4.33	4.60	4.81	4.90	4.62	4.70	5.26	4.22	4.79	3.56	3.12	3.12	3.15	
		-39.42	-26.89	-10.33	-15.58	-9.85	-4.93	-16.52	-32.92	-22.12	-31.16	-13.55	-37.42	-40.33	-61.27	-56.34	-115.28	-132.04	-114.20	-96.51	-25.04	-40.64	-63.89	-45.78	-12.68	
ADK S GLENS___FALLS 24028	EDT	71.60	58.84	43.27	46.04	40.35	38.37	48.34	65.35	53.24	60.46	60.06	83.68	89.57	111.42	107.88	167.43	186.94	178.60	145.72	81.18	80.01	96.73	80.62	47.61	
		2.78	2.70	2.67	2.42	2.39	2.65	2.52	2.56	2.99	3.23	3.65	3.79	4.06	4.23	4.30	4.12	4.16	4.63	3.74	4.23	3.16	2.77	2.80	2.82	
		-39.28	-26.79	-10.29	-15.53	-9.81	-4.91	-16.48	-33.03	-14.61	-19.23	-14.00	-38.21	-40.89	-62.22	-57.34	-117.08	-133.87	-116.12	-98.02	-26.01	-40.91	-64.46	-46.34	-12.69	
ADK_NYS___DAM 23527	EDT	62.97	52.73	40.63	42.47	37.96	36.87	44.99	62.85	65.13	80.37	66.50	93.53	95.55	121.37	119.32	187.52	205.53	201.81	163.00	96.23	79.54	99.01	85.42	45.77	
		1.89	1.88	2.06	1.91	1.94	2.12	2.11	2.11	2.42	2.62	2.89	2.71	2.90	2.92	3.00	3.05	3.33	3.94	2.99	3.41	2.48	2.03	2.23	2.37	
		-31.53	-21.51	-8.26	-12.46	-7.88	-3.94	-13.54	-30.97	-27.06	-39.75	-21.21	-49.14	-48.03	-73.48	-70.07	-138.23	-153.30	-140.03	-116.05	-41.88	-41.13	-67.48	-51.71	-11.31	
AIR_PRODUCTS___DRP 24190	EDT	56.79	48.18	38.15	39.42	35.62	35.07	40.73	45.32	45.91	51.29	36.33	36.57	40.16	45.59	44.06	48.63	63.14	56.37	46.33	34.73	50.52	47.28	39.27	39.67	
		0.80	0.79	0.91	0.87	0.87	0.96	0.85	0.83	0.93	0.99	1.10	0.96	1.03	0.99	1.02	1.02	1.12	1.39	1.06	1.27	0.93	0.74	0.85	0.93	
		-26.44	-18.04	-6.93	-10.45	-6.61	-3.30	-10.54	-14.73	-9.34	-12.30	7.18	6.07	5.48	0.37	3.20	-1.38	-13.11	2.87	-1.32	17.48	-13.65	-17.05	-6.95	-6.65	
AKWESSNE_115KV_BK 355683	EDT	29.10	28.90	29.79	27.64	27.69	30.25	28.81	29.20	35.18	37.51	41.77	41.05	43.94	44.25	45.64	45.68	48.13	56.87	43.26	50.33	35.14	28.87	30.90	31.41	
		-0.44	-0.44	-0.52	-0.45	-0.45	-0.55	-0.53	-0.57	-0.46	-0.49	-0.64	-0.63	-0.67	-0.72	-0.60	-0.55	-0.78	-0.98	-0.70	-0.61	-0.79	-0.62	-0.57	-0.67	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ALBANY___1 23571	EDT	56.79	48.18	38.15	39.42	35.62	35.07	40.73	45.32	45.91	51.29	36.33	36.57	40.16	45.59	44.06	48.63	63.14	56.37	46.33	34.73	50.52	47.28	39.27	39.67	
		0.80	0.79	0.91	0.87	0.87	0.96	0.85	0.83	0.93	0.99	1.10	0.96	1.03	0.99	1.02	1.02	1.12	1.39	1.06	1.27	0.93	0.74	0.85	0.93	
		-26.44	-18.04	-6.93	-10.45	-6.61	-3.30	-10.54	-14.73	-9.34	-12.30	7.18	6.07	5.48	0.37	3.20	-1.38	-13.11	2.87	-1.32	17.48	-13.65	-17.05	-6.95	-6.65	
ALBANY___2 23572	EDT	56.79	48.18	38.15	39.42	35.62	35.07	40.73	45.32	45.91	51.29	36.33	36.57	40.16	45.59	44.06	48.63	63.14	56.37	46.33	34.73	50.52	47.28	39.27	39.67	
		0.80	0.79	0.91	0.87	0.87	0.96	0.85	0.83	0.93	0.99	1.10	0.96	1.03	0.99	1.02	1.02	1.12	1.39	1.06	1.27	0.93	0.74	0.85	0.93	
		-26.44	-18.04	-6.93	-10.45	-6.61	-3.30	-10.54	-14.73	-9.34	-12.30	7.18	6.07	5.48	0.37	3.20	-1.38	-13.11	2.87	-1.32	17.48	-13.65	-17.05	-6.95	-6.65	
ALBANY___3 23573	EDT	56.79	48.18	38.15	39.42	35.62	35.07	40.73	45.32	45.91	51.29	36.33	36.57	40.16	45.59	44.06	48.63	63.14	56.37	46.33	34.73	50.52	47.28	39.27	39.67	
		0.80	0.79	0.91	0.87	0.87	0.96	0.85	0.83	0.93	0.99	1.10	0.96	1.03	0.99	1.02	1.02	1.12	1.39	1.06	1.27	0.93	0.74	0.85	0.93	
		-26.44	-18.04	-6.93	-10.45	-6.61	-3.30	-10.54	-14.73	-9.34	-12.30	7.18	6.07	5.48	0.37	3.20	-1.38	-13.11	2.87	-1.32	17.48	-13.65	-17.05	-6.95	-6.65	



ALBANY___4 23574	56.79 0.80 -26.44	48.18 0.79 -18.04	38.15 0.91 -6.93	39.42 0.87 -10.45	35.62 0.87 -6.61	35.07 0.96 -3.30	40.73 0.85 -10.54	45.32 0.83 -14.73	45.91 0.93 -9.34	51.29 0.99 -12.30	36.33 1.10 7.18	36.57 0.96 6.07	40.16 1.03 5.48	45.59 0.99 0.37	44.06 1.02 3.20	48.63 1.02 -1.38	63.14 1.12 -13.11	56.37 1.39 2.87	46.33 1.06 -1.32	34.73 1.27 17.48	50.52 0.93 -13.65	47.28 0.74 -17.05	39.27 0.85 -6.95	39.67 0.93 -6.65
ALBANY___LFGE 323615	61.04 1.21 -30.28	51.20 1.20 -20.65	39.54 1.30 -7.93	41.27 1.21 -11.97	36.92 1.21 -7.57	35.92 1.32 -3.78	42.69 1.20 -12.15	48.82 1.22 -17.84	39.13 1.43 -2.06	39.85 1.52 -0.33	38.07 1.74 6.08	42.10 1.62 1.21	57.10 1.74 -10.75	56.73 1.75 -10.00	52.58 1.80 -4.53	65.51 1.76 -17.52	76.53 1.91 -25.72	72.16 2.25 -12.05	59.34 1.67 -13.71	37.37 1.94 15.51	54.77 1.40 -17.43	53.58 1.15 -22.94	43.83 1.26 -11.10	41.27 1.32 -7.87
ALCOA_PA_115KV_PL-6C 55860	29.25 -0.30 0.00	29.08 -0.26 0.00	29.92 -0.39 0.00	27.78 -0.31 0.00	27.81 -0.34 0.00	30.35 -0.46 0.00	28.87 -0.47 0.00	29.26 -0.51 0.00	35.21 -0.43 0.00	37.58 -0.42 0.00	41.86 -0.55 0.00	41.18 -0.50 0.00	44.03 -0.58 0.00	44.34 -0.63 0.00	45.78 -0.46 0.00	45.77 -0.46 0.00	48.22 -0.68 0.00	56.87 -0.98 0.00	43.30 -0.66 0.00	50.43 -0.51 0.00	35.22 -0.72 0.00	28.93 -0.56 0.00	31.03 -0.44 0.00	31.51 -0.58 0.00
ALCOA_RYNLDS___DRP 24188	29.25 -0.30 0.00	29.08 -0.26 0.00	29.92 -0.39 0.00	27.78 -0.31 0.00	27.81 -0.34 0.00	30.35 -0.46 0.00	28.87 -0.47 0.00	29.26 -0.51 0.00	35.21 -0.43 0.00	37.58 -0.42 0.00	41.86 -0.55 0.00	41.18 -0.50 0.00	44.03 -0.58 0.00	44.34 -0.63 0.00	45.78 -0.46 0.00	45.77 -0.46 0.00	48.22 -0.68 0.00	56.87 -0.98 0.00	43.30 -0.66 0.00	50.43 -0.51 0.00	35.22 -0.72 0.00	28.93 -0.56 0.00	31.03 -0.44 0.00	31.51 -0.58 0.00
ALCOA___DSASP 323711	29.25 -0.30 0.00	29.08 -0.26 0.00	29.91 -0.39 0.00	27.78 -0.31 0.00	27.86 -0.28 0.00	30.35 -0.46 0.00	28.87 -0.47 0.00	29.26 -0.51 0.00	35.21 -0.43 0.00	37.59 -0.42 0.00	41.86 -0.55 0.00	41.18 -0.50 0.00	44.08 -0.53 0.00	44.34 -0.63 0.00	45.78 -0.46 0.00	45.82 -0.42 0.00	48.22 -0.68 0.00	56.87 -0.98 0.00	43.30 -0.66 0.00	50.43 -0.51 0.00	35.22 -0.72 0.00	28.93 -0.56 0.00	31.03 -0.44 0.00	31.51 -0.58 0.00
ALLEGHENY___COGEN 23514	32.67 1.12 -2.00	31.71 1.00 -1.37	31.53 0.70 -0.52	29.33 0.45 -0.79	28.95 0.31 -0.50	31.64 0.58 -0.25	30.77 0.62 -0.81	31.33 0.12 -1.45	35.65 -0.71 -0.72	37.66 -1.29 -0.95	41.30 -1.36 -0.25	41.54 -1.21 -1.07	41.38 -4.50 -1.27	42.59 -4.41 -2.02	43.57 -4.44 -1.77	45.25 -4.81 -3.82	48.70 -4.84 -4.63	57.82 -3.70 -3.67	44.87 -2.29 -3.19	49.46 -1.83 -0.35	39.41 1.80 -1.68	33.49 1.47 -2.52	34.27 1.13 -1.67	33.80 1.12 -0.59
ALTAMONT_115KV_TB 2 55880	54.42 1.12 -23.75	46.66 1.12 -16.20	37.77 1.24 -6.22	38.66 1.18 -9.39	35.26 1.18 -5.93	35.07 1.29 -2.97	40.11 1.20 -9.57	46.14 1.22 -15.16	45.48 1.35 -8.49	50.61 1.44 -11.17	41.93 1.53 2.01	46.10 1.42 -3.01	49.91 1.52 -3.78	57.36 1.53 -10.86	55.99 1.53 -8.22	69.57 1.57 -21.76	82.83 1.76 -32.16	78.86 2.08 -18.92	63.87 1.58 -18.33	46.38 1.78 6.34	53.23 1.40 -15.89	52.89 1.15 -22.24	45.38 1.26 -12.66	39.89 1.35 -6.45
ALTONA_WT_PWR 323606	29.43 -0.12 0.00	29.20 -0.15 0.00	30.04 -0.27 0.00	27.87 -0.23 0.00	27.98 -0.17 0.00	30.53 -0.28 0.00	29.10 -0.24 0.00	29.64 -0.12 0.00	35.75 0.11 0.00	38.12 0.11 0.00	42.45 0.04 0.00	41.72 0.04 0.00	44.66 0.04 0.00	44.93 -0.04 0.00	46.29 0.05 0.00	46.33 0.09 0.00	48.71 -0.19 0.00	57.68 -0.17 0.00	44.01 0.04 0.00	51.25 0.31 0.00	35.79 -0.14 0.00	29.35 -0.15 0.00	31.38 -0.09 0.00	31.87 -0.22 0.00
AMERICAN_REF_FUEL 24010	31.02 -0.30 -1.77	30.03 -0.53 -1.21	30.02 -0.76 -0.46	27.73 -1.07 -0.70	27.43 -1.16 -0.44	30.01 -1.02 -0.22	29.32 -0.73 -0.72	30.04 -1.01 -1.29	34.42 -1.85 -0.64	36.71 -2.13 -0.84	40.43 -2.21 -0.22	40.87 -1.75 -0.94	43.86 -1.87 -1.12	45.14 -1.62 -1.79	46.00 -1.80 -1.56	47.26 -2.36 -3.38	50.61 -2.40 -4.10	58.15 -2.95 -3.25	44.59 -2.20 -2.83	48.81 -2.44 -0.31	37.17 -0.25 -1.48	31.52 -0.21 -2.23	32.32 -0.63 -1.48	32.29 -0.32 -0.52
ARKWRIGHT___SUMMIT_WT_PWR 323751	32.85 1.27 -2.04	31.73 1.00 -1.39	31.60 0.76 -0.53	29.26 0.36 -0.81	28.99 0.34 -0.51	31.65 0.58 -0.25	30.96 0.79 -0.83	32.01 0.77 -1.48	36.66 0.28 -0.73	39.23 0.27 -0.96	43.13 0.47 -0.26	43.60 0.83 -1.09	46.84 0.94 -1.29	48.28 1.26 -2.05	49.11 1.06 -1.80	50.54 0.42 -3.89	54.01 0.39 -4.71	61.93 0.35 -3.73	47.52 0.31 -3.25	51.66 0.36 -0.36	39.36 1.72 -1.70	33.53 1.47 -2.56	34.17 1.01 -1.70	33.90 1.22 -0.60
ARTHUR_KILL_GT_1 23520	34.98 1.15 -4.28	34.98 1.32 -4.31	34.98 1.76 -2.91	34.57 1.63 -4.85	32.91 1.69 -3.07	34.00 1.66 -1.53	34.98 1.88 -3.76	34.98 1.88 -3.34	35.00 1.89 2.53	35.10 2.01 4.91	36.75 2.29 7.95	36.67 1.92 6.93	39.46 2.19 7.34	39.99 2.38 7.37	39.77 2.45 8.92	48.66 2.96 0.54	59.21 3.52 -6.78	53.93 4.28 8.21	41.90 2.95 5.01	38.24 3.11 15.81	37.00 1.98 0.91	36.70 1.56 -5.64	36.95 1.98 -3.49	35.66 2.12 -1.46
ARTHUR_KILL_2 23512	34.89 1.06 -4.28	34.89 1.23 -4.31	34.89 1.67 -2.91	34.49 1.54 -4.85	32.82 1.60 -3.07	33.88 1.54 -1.53	34.89 1.79 -3.76	34.89 1.79 -3.34	34.89 1.78 2.53	34.99 1.90 4.91	36.58 2.12 7.95	36.50 1.75 6.93	39.28 2.01 7.34	39.76 2.16 7.37	39.59 2.27 8.92	48.47 2.77 0.54	58.97 3.28 -6.78	53.58 3.94 8.21	41.68 2.73 5.01	37.98 2.85 15.81	36.82 1.80 0.91	36.58 1.44 -5.64	36.82 1.86 -3.49	35.57 2.02 -1.46
ARTHUR_KILL_3 23513	34.99 1.15 -4.29	34.93 1.26 -4.32	34.87 1.64 -2.92	34.50 1.54 -4.86	32.82 1.60 -3.07	34.01 1.66 -1.54	34.90 1.79 -3.77	34.90 1.79 -3.35	35.04 1.92 2.52	35.19 2.09 4.90	36.80 2.33 7.94	36.72 1.96 6.92	39.42 2.14 7.33	39.86 2.25 7.36	39.64 2.31 8.92	48.48 2.77 0.53	58.83 3.13 -6.79	53.47 3.82 8.20	41.64 2.68 5.00	37.78 2.65 15.80	36.86 1.83 0.90	36.62 1.47 -5.65	36.80 1.82 -3.50	35.45 1.89 -1.47
ARTHUR_KILL_COGEN 323718	34.98 1.15 -4.28	34.98 1.32 -4.31	34.98 1.76 -2.91	34.57 1.63 -4.85	32.91 1.69 -3.07	34.00 1.66 -1.53	34.98 1.88 -3.76	34.98 1.88 -3.34	35.00 1.89 2.53	35.10 2.01 4.91	36.75 2.29 7.95	36.67 1.92 6.93	39.46 2.19 7.34	39.99 2.38 7.37	39.77 2.45 8.92	48.66 2.96 0.54	59.21 3.52 -6.78	53.93 4.28 8.21	41.90 2.95 5.01	38.24 3.11 15.81	37.00 1.98 0.91	36.70 1.56 -5.64	36.95 1.98 -3.49	35.66 2.12 -1.46
ASHOKAN____ 23654	48.90 0.86 -18.49	42.72 0.76 -12.61	35.97 0.82 -4.84	36.13 0.73 -7.31	33.38 0.62 -4.62	33.89 0.77 -2.31	37.51 0.76 -7.41	41.80 0.60 -11.45	38.80 0.64 -2.52	41.08 0.87 -2.20	43.01 2.89 2.29	45.06 2.71 -0.67	46.55 2.59 0.65	53.32 2.61 -5.74	53.20 2.87 -4.09	61.65 2.91 -12.50	73.71 3.33 -21.48	71.93 3.76 -10.32	57.53 2.82 -10.75	47.59 3.11 6.46	48.24 0.57 -11.73	47.09 1.47 -16.12	42.19 1.95 -8.77	37.59 0.58 -4.93



ASTORIA_EAST_ENERGY_CC1 323581	43.09 1.24 -12.31	39.21 1.47 -8.40	35.42 1.88 -3.23	34.70 1.74 -4.87	33.03 1.80 -3.08	34.07 1.72 -1.54	36.25 1.94 -4.98	40.45 1.79 -8.90	41.79 1.75 -4.40	45.89 2.09 -5.80	46.19 2.25 -1.53	50.29 2.00 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.77 2.82 -23.71	80.60 3.28 -28.42	84.56 3.99 -22.72	66.46 2.73 -19.78	56.00 2.90 -2.16	48.13 1.94 -10.26	46.51 1.59 -15.43	43.60 1.92 -10.21	37.90 2.21 -3.60
ASTORIA_EAST_ENERGY_CC2 323582	43.09 1.24 -12.31	39.21 1.47 -8.40	35.42 1.88 -3.23	34.70 1.74 -4.87	33.03 1.80 -3.08	34.07 1.72 -1.54	36.25 1.94 -4.98	40.45 1.79 -8.90	41.79 1.75 -4.40	45.89 2.09 -5.80	46.19 2.25 -1.53	50.29 2.00 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.77 2.82 -23.71	80.60 3.28 -28.42	84.56 3.99 -22.72	66.46 2.73 -19.78	56.00 2.90 -2.16	48.13 1.94 -10.26	46.51 1.59 -15.43	43.60 1.92 -10.21	37.90 2.21 -3.60
ASTORIA_GT2_1 24094	43.12 1.27 -12.31	39.24 1.50 -8.40	35.45 1.91 -3.23	34.73 1.77 -4.87	33.05 1.83 -3.08	34.10 1.76 -1.54	36.25 1.94 -4.98	40.45 1.79 -8.91	41.80 1.75 -4.41	45.93 2.13 -5.80	46.27 2.33 -1.53	50.34 2.04 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.60 3.28 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.77	56.05 2.95 -2.16	48.17 1.98 -10.26	46.51 1.59 -15.42	43.60 1.92 -10.21	37.99 2.31 -3.60
ASTORIA_GT2_2 24095	43.12 1.27 -12.31	39.24 1.50 -8.40	35.45 1.91 -3.23	34.73 1.77 -4.87	33.05 1.83 -3.08	34.10 1.76 -1.54	36.25 1.94 -4.98	40.45 1.79 -8.91	41.80 1.75 -4.41	45.93 2.13 -5.80	46.27 2.33 -1.53	50.34 2.04 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.60 3.28 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.77	56.05 2.95 -2.16	48.17 1.98 -10.26	46.51 1.59 -15.42	43.60 1.92 -10.21	37.99 2.31 -3.60
ASTORIA_GT2_3 24096	43.12 1.27 -12.31	39.24 1.50 -8.40	35.45 1.91 -3.23	34.73 1.77 -4.87	33.05 1.83 -3.08	34.10 1.76 -1.54	36.25 1.94 -4.98	40.45 1.79 -8.91	41.80 1.75 -4.41	45.93 2.13 -5.80	46.27 2.33 -1.53	50.34 2.04 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.60 3.28 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.77	56.05 2.95 -2.16	48.17 1.98 -10.26	46.51 1.59 -15.42	43.60 1.92 -10.21	37.99 2.31 -3.60
ASTORIA_GT2_4 24097	43.12 1.27 -12.31	39.24 1.50 -8.40	35.45 1.91 -3.23	34.73 1.77 -4.87	33.05 1.83 -3.08	34.10 1.76 -1.54	36.25 1.94 -4.98	40.45 1.79 -8.91	41.80 1.75 -4.41	45.93 2.13 -5.80	46.27 2.33 -1.53	50.34 2.04 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.60 3.28 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.77	56.05 2.95 -2.16	48.17 1.98 -10.26	46.51 1.59 -15.42	43.60 1.92 -10.21	37.99 2.31 -3.60
ASTORIA_GT3_1 24098	43.12 1.27 -12.31	39.24 1.50 -8.40	35.45 1.91 -3.23	34.73 1.77 -4.87	33.05 1.83 -3.08	34.10 1.76 -1.54	36.25 1.94 -4.98	40.45 1.79 -8.91	41.80 1.75 -4.41	45.93 2.13 -5.80	46.27 2.33 -1.53	50.34 2.04 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.60 3.28 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.77	56.05 2.95 -2.16	48.17 1.98 -10.26	46.51 1.59 -15.42	43.60 1.92 -10.21	37.99 2.31 -3.60



ASTORIA_GT_10 24110	43.05	39.20	35.38	34.70	33.02	34.13	36.31	40.60	42.01	45.89	46.32	50.21	55.11	56.10	53.50	62.53	78.75	69.82	55.16	49.56	48.06	46.42	43.54	37.95
	1.21	1.47	1.85	1.74	1.80	1.79	1.99	1.93	1.96	2.09	2.37	1.92	2.10	2.20	2.27	2.73	3.13	3.88	2.68	2.80	1.87	1.50	1.86	2.28
	-12.29	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.91	-4.41	-5.80	-1.53	-6.61	-8.40	-8.93	-4.99	-13.57	-26.71	-8.09	-8.52	4.19	-10.26	-15.42	-10.21	-3.59
ASTORIA_GT_11 24225	43.05	39.20	35.38	34.70	33.02	34.13	36.31	40.60	42.01	45.89	46.32	50.21	55.11	56.10	53.50	62.53	78.75	69.82	55.16	49.56	48.06	46.42	43.54	37.95
	1.21	1.47	1.85	1.74	1.80	1.79	1.99	1.93	1.96	2.09	2.37	1.92	2.10	2.20	2.27	2.73	3.13	3.88	2.68	2.80	1.87	1.50	1.86	2.28
	-12.29	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.91	-4.41	-5.80	-1.53	-6.61	-8.40	-8.93	-4.99	-13.57	-26.71	-8.09	-8.52	4.19	-10.26	-15.42	-10.21	-3.59
ASTORIA_GT_12 24226	43.05	39.20	35.38	34.70	32.99	34.13	36.31	40.60	42.01	45.93	46.27	50.21	55.11	56.10	53.50	62.53	78.80	69.82	55.16	49.56	48.06	46.42	43.57	37.83
	1.21	1.47	1.85	1.74	1.77	1.79	2.00	1.93	1.96	2.13	2.33	1.92	2.10	2.20	2.27	2.73	3.18	3.88	2.68	2.80	1.87	1.50	1.89	2.15
	-12.29	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.90	-4.41	-5.80	-1.53	-6.61	-8.40	-8.93	-4.99	-13.57	-26.72	-8.09	-8.52	4.19	-10.26	-15.43	-10.21	-3.59
ASTORIA_GT_13 24227	43.05	39.20	35.38	34.70	32.99	34.13	36.31	40.60	42.01	45.93	46.27	50.21	55.11	56.10	53.50	62.53	78.80	69.82	55.16	49.56	48.06	46.42	43.57	37.83
	1.21	1.47	1.85	1.74	1.77	1.79	2.00	1.93	1.96	2.13	2.33	1.92	2.10	2.20	2.27	2.73	3.18	3.88	2.68	2.80	1.87	1.50	1.89	2.15
	-12.29	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.90	-4.41	-5.80	-1.53	-6.61	-8.40	-8.93	-4.99	-13.57	-26.72	-8.09	-8.52	4.19	-10.26	-15.43	-10.21	-3.59
ASTORIA_GT_5 24106	43.18	39.30	35.51	34.79	33.08	34.16	36.31	40.54	41.86	46.00	46.31	50.42	55.38	60.05	59.74	72.95	80.80	84.79	66.59	56.16	48.24	46.57	43.70	37.96
	1.33	1.55	1.97	1.82	1.86	1.82	2.00	1.88	1.82	2.20	2.37	2.12	2.36	2.47	2.54	3.00	3.47	4.22	2.86	3.06	2.05	1.65	2.02	2.28
	-12.31	-8.40	-3.23	-4.87	-3.08	-1.54	-4.98	-8.90	-4.40	-5.80	-1.53	-6.61	-8.40	-12.60	-10.95	-23.71	-28.42	-22.72	-19.78	-2.16	-10.26	-15.43	-10.21	-3.60
ASTORIA_GT_7 24107	43.18	39.30	35.51	34.79	33.08	34.16	36.31	40.54	41.86	46.00	46.31	50.42	55.38	60.05	59.74	72.95	80.80	84.79	66.59	56.16	48.24	46.57	43.70	37.96
	1.33	1.55	1.97	1.82	1.86	1.82	2.00	1.88	1.82	2.20	2.37	2.12	2.36	2.47	2.54	3.00	3.47	4.22	2.86	3.06	2.05	1.65	2.02	2.28
	-12.31	-8.40	-3.23	-4.87	-3.08	-1.54	-4.98	-8.90	-4.40	-5.80	-1.53	-6.61	-8.40	-12.60	-10.95	-23.71	-28.42	-22.72	-19.78	-2.16	-10.26	-15.43	-10.21	-3.60
ASTORIA_GT_8 24108	43.18	39.30	35.51	34.79	33.11	34.16	36.31	40.54	41.87	46.04	46.36	50.42	55.33	60.05	59.74	72.95	80.75	84.80	66.59	56.16	48.24	46.60	43.66	38.06
	1.33	1.56	1.97	1.83	1.89	1.82	1.99	1.88	1.82	2.24	2.42	2.13	2.32	2.47	2.54	3.01	3.42	4.22	2.86	3.06	2.05	1.68	1.98	2.37
	-12.31	-8.40	-3.23	-4.87	-3.08	-1.54	-4.98	-8.91	-4.41	-5.80	-1.53	-6.61	-8.40	-12.60	-10.95	-23.71	-28.42	-22.72	-19.77	-2.16	-10.26	-15.42	-10.21	-3.60
ASTORIA___2 24149	43.12	39.24	35.45	34.73	33.05	34.10	36.25	40.45	41.79	45.93	46.23	50.34	55.24	59.91	59.60	72.81	80.65	84.62	66.51	56.05	48.17	46.51	43.63	37.90
	1.27	1.50	1.91	1.77	1.83	1.76	1.94	1.79	1.75	2.13	2.29	2.04	2.23	2.34	2.40	2.87	3.33	4.05	2.77	2.95	1.98	1.59	1.95	2.21
	-12.31	-8.40	-3.23	-4.87	-3.08	-1.54	-4.98	-8.90	-4.40	-5.80	-1.53	-6.61	-8.40	-12.60	-10.95	-23.71	-28.42	-22.72	-19.78	-2.16	-10.26	-15.43	-10.21	-3.60
ASTORIA___3 23516	43.05	39.20	35.38	34.70	32.99	34.13	36.31	40.60	42.01	45.93	46.27	50.21	55.11	56.10	53.50	62.53	78.80	69.82	55.16	49.56	48.06	46.42	43.57	37.83
	1.21	1.47	1.85	1.74	1.77	1.79	2.00	1.93	1.96	2.13	2.33	1.92	2.10	2.20	2.27	2.73	3.18	3.88	2.68	2.80	1.87	1.50	1.89	2.15
	-12.29	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.90	-4.41	-5.80	-1.53	-6.61	-8.40	-8.93	-4.99	-13.57	-26.72	-8.09	-8.52	4.19	-10.26	-15.43	-10.21	-3.59
ASTORIA___4 23517	43.05	39.20	35.38	34.70	33.02	34.13	36.31	40.60	42.01	45.89	46.32	50.21	55.11	56.10	53.50	62.53	78.75	69.82	55.16	49.56	48.06	46.42	43.54	37.95
	1.21	1.47	1.85	1.74	1.80	1.79	1.99	1.93	1.96	2.09	2.37	1.92	2.10	2.20	2.27	2.73	3.13	3.88	2.68	2.80	1.87	1.50	1.86	2.28
	-12.29	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.91	-4.41	-5.80	-1.53	-6.61	-8.40	-8.93	-4.99	-13.57	-26.71	-8.09	-8.52	4.19	-10.26	-15.42	-10.21	-3.59
ASTORIA___5 23518	43.05	39.20	35.38	34.70	32.99	34.13	36.31	40.60	42.01	45.93	46.27	50.21	55.11	56.10	53.50	62.53	78.80	69.82	55.16	49.56	48.06	46.42	43.57	37.83
	1.21	1.47	1.85	1.74	1.77	1.79	2.00	1.93	1.96	2.13	2.33	1.92	2.10	2.20	2.27	2.73	3.18	3.88	2.68	2.80	1.87	1.50	1.89	2.15
	-12.29	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.90	-4.41	-5.80	-1.53	-6.61	-8.40	-8.93	-4.99	-13.57	-26.72	-8.09	-8.52	4.19	-10.26	-15.43	-10.21	-3.59
AST_ENERGY_2_CC3 323677	43.18	39.17	35.32	34.64	32.96	34.16	36.28	40.63	42.15	46.09	46.49	50.47	55.38	60.06	59.74	72.91	80.69	84.67	66.63	56.01	48.21	46.55	43.67	37.76
	1.33	1.44	1.79	1.69	1.75	1.82	1.97	1.96	2.10	2.28	2.54	2.17	2.36	2.47	2.54	2.96	3.37	4.11	2.90	2.90	2.01	1.62	1.98	2.08
	-12.30	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.90	-4.41	-5.80	-1.54	-6.62	-8.41	-12.61	-10.96	-23.72	-28.41	-22.71	-19.77	-2.17	-10.27	-15.43	-10.21	-3.59
AST_ENERGY_2_CC4 323678	43.18	39.17	35.32	34.64	32.96	34.16	36.28	40.63	42.15	46.09	46.49	50.47	55.38	60.06	59.74	72.91	80.69	84.67	66.63	56.01	48.21	46.55	43.67	37.76
	1.33	1.44	1.79	1.69	1.75	1.82	1.97	1.96	2.10	2.28	2.54	2.17	2.36	2.47	2.54	2.96	3.37	4.11	2.90	2.90	2.01	1.62	1.98	2.08
	-12.30	-8.39	-3.22	-4.86	-3.07	-1.54	-4.98	-8.90	-4.41	-5.80	-1.54	-6.62	-8.41	-12.61	-10.96	-23.72	-28.41	-22.71	-19.77	-2.17	-10.27	-15.43	-10.21	-3.59
ATHENS_STG_1 23668	43.66	39.34	35.00	34.49	32.64	33.79	35.90	40.48	41.74	45.68	45.69	50.03	54.41	59.61	59.24	72.72	80.84	83.92	66.42	55.07	48.18	46.97	43.62	37.37
	1.06	1.09	1.27	1.23	1.24	1.35	1.29	1.28	1.43	1.52	1.65	1.42	1.56	1.53	1.52	1.66	1.86	2.25	1.71	1.83	1.37	1.12	1.32	1.48
	-13.05	-8.90	-3.42	-5.16	-3.26	-1.63	-5.27	-9.44	-4.68	-6.15	-1.63	-6.93	-8.23	-13.10	-11.47	-24.82	-30.08	-23.82	-20.75	-2.30	-10.88	-16.36	-10.82	-3.80
ATHENS_STG_2 23670	43.66	39.34	35.00	34.49	32.64	33.79	35.90	40.48	41.74	45.68	45.69	50.03	54.41	59.61	59.24	72.72	80.84	83.92	66.42	55.07	48.18	46.97	43.62	37.37
	1.06	1.09	1.27	1.23	1.24	1.35	1.29	1.28	1.43	1.52	1.65	1.42	1.56	1.53	1.52	1.66	1.86	2.25	1.71	1.83	1.37	1.12	1.32	1.48
	-13.05	-8.90	-3.42	-5.16	-3.26	-1.63	-5.27	-9.44	-4.68	-6.15	-1.63	-6.93	-8.23	-13.10	-11.47	-24.82	-30.08	-23.82	-20.75	-2.30	-10.88	-16.36	-10.82	-3.80



ATHENS_STG_3 23677	43.66 1.06 -13.05	39.34 1.09 -8.90	35.00 1.27 -3.42	34.49 1.23 -5.16	32.64 1.24 -3.26	33.79 1.35 -1.63	35.90 1.29 -5.27	40.48 1.28 -9.44	41.74 1.43 -4.68	45.68 1.52 -6.15	45.69 1.65 -1.63	50.03 1.42 -6.93	54.41 1.56 -8.23	59.61 1.53 -13.10	59.24 1.52 -11.47	72.72 1.66 -24.82	80.84 1.86 -30.08	83.92 2.25 -23.82	66.42 1.71 -20.75	55.07 1.83 -2.30	48.18 1.37 -10.88	46.97 1.12 -16.36	43.62 1.32 -10.82	37.37 1.48 -3.80
AUBURN____LFGE 323710	31.71 0.74 -1.42	31.08 0.76 -0.97	31.32 0.64 -0.37	29.13 0.48 -0.56	28.98 0.48 -0.36	31.63 0.65 -0.18	30.53 0.62 -0.58	31.48 0.68 -1.03	36.83 0.68 -0.51	39.32 0.65 -0.67	43.31 0.72 -0.18	43.40 0.96 -0.76	46.50 0.98 -0.90	47.53 1.12 -1.43	48.47 0.97 -1.26	49.93 0.97 -2.72	53.08 0.88 -3.29	61.73 1.27 -2.61	47.15 0.92 -2.27	52.21 1.02 -0.25	38.20 1.08 -1.19	32.17 0.88 -1.79	33.41 0.76 -1.18	33.21 0.71 -0.42
BABYLON_RES_REC 323704	66.97 2.63 -34.79	54.01 2.73 -21.93	51.39 3.09 -17.99	43.51 2.87 -12.55	41.90 2.90 -10.86	43.64 3.11 -9.72	41.77 3.20 -9.23	43.11 3.22 -10.14	61.41 3.64 -22.13	63.32 3.84 -21.48	70.93 4.03 -24.49	74.00 3.21 -29.11	75.85 3.44 -27.81	80.92 3.51 -32.44	88.65 3.56 -38.84	98.73 3.74 -48.75	120.71 4.15 -67.64	123.75 5.15 -60.75	99.01 3.82 -51.22	87.00 4.33 -31.74	76.11 3.16 -37.01	69.67 2.83 -37.35	50.79 3.30 -16.02	65.31 3.44 -29.79
BABYLON__69_KV_BK2 356345	67.47 3.13 -34.79	54.51 3.23 -21.93	51.90 3.61 -17.99	43.96 3.31 -12.55	42.38 3.38 -10.86	44.16 3.64 -9.72	42.24 3.67 -9.23	43.65 3.72 -10.16	62.01 4.24 -22.13	64.05 4.56 -21.49	71.77 4.83 -24.53	77.35 4.33 -31.33	79.37 4.68 -30.08	88.92 4.68 -39.27	102.06 4.90 -50.92	110.42 5.09 -59.09	136.81 5.62 -82.28	142.90 6.65 -78.39	108.94 4.92 -60.06	100.69 5.55 -44.19	82.92 4.06 -42.92	75.83 3.36 -42.98	53.18 3.84 -17.87	67.61 4.04 -31.48
BARON_WINDS____WT_PWR 323822	32.88 0.71 -2.63	31.69 0.56 -1.79	31.36 0.37 -0.69	29.24 0.11 -1.04	28.88 0.08 -0.66	31.45 0.31 -0.33	30.81 0.41 -1.06	31.96 0.30 -1.91	36.41 -0.18 -0.94	39.06 -0.19 -1.24	42.65 -0.08 -0.33	43.33 0.25 -1.40	46.45 0.18 -1.66	48.02 0.40 -2.64	48.89 0.33 -2.31	51.16 -0.09 -5.01	54.98 0.00 -6.07	62.60 -0.06 -4.81	48.15 0.00 -4.19	51.40 0.00 -0.46	39.17 1.04 -2.20	33.71 0.92 -3.30	34.22 0.57 -2.18	33.59 0.74 -0.77
BARRETT_IC_1 23704	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_10 23701	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_11 23702	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_12 23703	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_2 23705	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_3 23706	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_4 23707	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_5 23708	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_6 23709	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_7 23710	66.38 2.04 -34.79	53.39 2.11 -21.93	50.71 2.42 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.17 2.70 -21.47	69.65 2.76 -24.48	72.18 2.42 -28.08	74.00 2.63 -26.76	76.96 2.70 -29.29	82.34 2.82 -33.27	93.36 3.14 -43.98	113.37 3.57 -60.89	117.23 4.34 -55.03	92.22 3.17 -45.10	80.24 3.31 -25.99	72.52 2.30 -34.28	66.13 1.89 -34.75	47.73 2.36 -13.90	63.31 2.57 -28.66



BARRETT_IC_8 23711	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT_IC_9 23700	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT___1 23545	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BARRETT___2 23546	66.37 2.04 -34.79	53.39 2.11 -21.93	50.71 2.43 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	40.99 2.43 -9.22	41.32 2.44 -9.12	60.39 2.64 -22.11	62.21 2.74 -21.47	69.64 2.76 -24.47	72.17 2.42 -28.07	73.99 2.63 -26.75	76.96 2.70 -29.28	82.33 2.82 -33.26	93.35 3.15 -43.97	113.36 3.57 -60.88	117.22 4.34 -55.03	92.22 3.17 -45.09	80.23 3.31 -25.98	72.51 2.30 -34.28	66.13 1.89 -34.74	47.76 2.39 -13.90	63.25 2.50 -28.66
BATAVIA___115KV_TB1 55881	31.87 0.71 -1.61	30.97 0.53 -1.10	30.98 0.24 -0.42	28.67 -0.06 -0.64	28.38 -0.17 -0.40	31.04 0.03 -0.20	30.31 0.32 -0.65	31.11 0.18 -1.17	35.79 -0.43 -0.58	38.35 -0.42 -0.76	42.27 -0.34 -0.20	42.62 0.08 -0.86	45.77 0.13 -1.02	46.91 0.31 -1.63	47.81 0.14 -1.42	48.99 -0.32 -3.08	52.06 -0.59 -3.74	60.12 -0.69 -2.96	46.10 -0.44 -2.58	50.87 -0.36 -0.29	38.47 1.19 -1.35	32.53 1.00 -2.03	33.51 0.69 -1.34	33.43 0.87 -0.47
BAYONEEC___CTG1 323682	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG10 323750	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG2 323683	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG3 323684	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG4 323685	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG5 323686	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG6 323687	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG7 323688	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG8 323689	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47
BAYONEEC___CTG9 323749	35.87 1.33 -4.99	37.00 1.44 -6.21	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.15 2.10 -4.41	46.09 2.28 -5.80	37.29 2.54 7.66	36.93 2.17 6.92	39.64 2.36 7.33	40.08 2.47 7.36	39.87 2.54 8.92	48.66 2.96 0.53	59.07 3.37 -6.79	53.76 4.11 8.20	41.86 2.90 5.00	38.04 2.90 15.80	37.04 2.01 0.90	36.77 1.62 -5.65	36.96 1.98 -3.50	35.64 2.08 -1.47



BEACON___LESR 323632	57.56 1.33 -26.69	48.87 1.32 -18.20	38.70 1.40 -6.99	39.93 1.29 -10.55	36.11 1.30 -6.67	35.59 1.45 -3.34	41.26 1.32 -10.61	45.45 1.34 -14.35	36.27 1.57 0.93	35.61 1.67 4.07	35.92 1.91 8.40	34.04 1.83 9.47	29.86 1.96 16.72	40.18 1.98 6.77	40.21 2.03 8.07	40.16 2.03 8.11	58.44 2.15 -7.38	48.49 2.54 11.90	40.03 1.89 5.82	33.05 2.19 20.08	50.37 1.62 -12.82	46.19 1.30 -15.40	38.23 1.42 -5.35	40.15 1.48 -6.59
BEAVER RIVER___HYD 24048	29.90 0.36 0.00	29.67 0.32 0.00	30.40 0.09 0.00	28.21 0.11 0.00	28.14 0.00 0.00	30.69 -0.12 0.00	28.99 -0.35 0.00	29.44 -0.33 0.00	35.18 -0.46 0.00	37.62 -0.38 0.00	42.03 -0.38 0.00	41.43 -0.25 0.00	44.21 -0.40 0.00	44.48 -0.49 0.00	45.74 -0.51 0.00	45.77 -0.46 0.00	48.37 -0.54 0.00	57.27 -0.58 0.00	43.52 -0.44 0.00	50.69 -0.25 0.00	35.79 -0.14 0.00	29.35 -0.15 0.00	31.38 -0.09 0.00	31.80 -0.29 0.00
BEEBEE_GT_13 23619	31.36 0.47 -1.34	30.61 0.35 -0.91	30.78 0.12 -0.35	28.54 -0.08 -0.53	28.28 -0.20 -0.33	30.91 -0.06 -0.17	30.03 0.15 -0.54	30.88 0.15 -0.97	35.87 -0.25 -0.48	38.41 -0.23 -0.63	42.41 -0.17 -0.17	42.56 0.17 -0.71	45.68 0.22 -0.85	46.68 0.36 -1.35	47.61 0.18 -1.18	48.70 -0.09 -2.55	51.71 -0.29 -3.09	59.96 -0.35 -2.45	45.83 -0.26 -2.13	51.02 -0.15 -0.24	37.88 0.83 -1.12	31.83 0.65 -1.68	32.99 0.41 -1.11	32.86 0.39 -0.39
BENSHRST_27_KV_BENSHRST_1 355998	43.29 1.45 -12.29	39.35 1.61 -8.39	35.62 2.09 -3.22	34.86 1.91 -4.86	33.21 2.00 -3.07	34.32 1.97 -1.54	36.51 2.20 -4.98	40.87 2.20 -8.91	42.37 2.32 -4.41	46.23 2.43 -5.80	46.70 2.76 -1.53	50.71 2.42 -6.61	55.74 2.72 -8.40	67.45 2.88 -19.60	71.56 3.01 -22.31	92.75 3.47 -43.04	84.46 3.91 -31.64	113.26 4.80 -50.61	88.51 3.38 -41.17	68.87 3.62 -14.32	48.53 2.34 -10.26	46.81 1.89 -15.42	43.98 2.30 -10.21	38.28 2.60 -3.59
BETHLEHEM___GRP 23843	56.79 0.80 -26.44	48.18 0.79 -18.04	38.15 0.91 -6.93	39.42 0.87 -10.45	35.62 0.87 -6.61	35.07 0.96 -3.30	40.73 0.85 -10.54	45.32 0.83 -14.73	45.91 0.93 -9.34	51.29 0.99 -12.30	36.33 1.10 7.18	36.57 0.96 6.07	40.16 1.03 5.48	45.59 0.99 0.37	44.06 1.02 3.20	48.63 1.02 -1.38	63.14 1.12 -13.11	56.37 1.39 2.87	46.33 1.06 -1.32	34.73 1.27 17.48	50.52 0.93 -13.65	47.28 0.74 -17.05	39.27 0.85 -6.95	39.67 0.93 -6.65
BETHLEHEM___GS1 323560	56.79 0.80 -26.44	48.18 0.79 -18.04	38.15 0.91 -6.93	39.42 0.87 -10.45	35.60 0.84 -6.61	35.07 0.96 -3.30	40.73 0.85 -10.54	45.32 0.83 -14.72	36.67 0.93 -0.10	36.59 0.99 2.40	36.33 1.10 7.18	36.57 0.96 6.07	40.16 1.03 5.48	45.58 0.99 0.38	44.06 1.02 3.20	48.62 1.02 -1.37	63.14 1.13 -13.10	56.36 1.39 2.87	46.33 1.05 -1.32	34.73 1.27 17.49	50.51 0.93 -13.65	47.28 0.74 -17.05	39.27 0.85 -6.95	39.67 0.93 -6.65
BETHLEHEM___GS2 323561	56.79 0.80 -26.44	48.18 0.79 -18.04	38.15 0.91 -6.93	39.42 0.87 -10.45	35.60 0.84 -6.61	35.07 0.96 -3.30	40.73 0.85 -10.54	45.32 0.83 -14.72	36.67 0.93 -0.10	36.59 0.99 2.40	36.33 1.10 7.18	36.57 0.96 6.07	40.16 1.03 5.48	45.58 0.99 0.38	44.06 1.02 3.20	48.62 1.02 -1.37	63.14 1.13 -13.10	56.36 1.39 2.87	46.33 1.05 -1.32	34.73 1.27 17.49	50.51 0.93 -13.65	47.28 0.74 -17.05	39.27 0.85 -6.95	39.67 0.93 -6.65
BETHLEHEM___GS3 323562	56.79 0.80 -26.44	48.18 0.79 -18.04	38.15 0.91 -6.93	39.42 0.87 -10.45	35.60 0.84 -6.61	35.07 0.96 -3.30	40.73 0.85 -10.54	45.32 0.83 -14.72	36.67 0.93 -0.10	36.59 0.99 2.40	36.33 1.10 7.18	36.57 0.96 6.07	40.16 1.03 5.48	45.58 0.99 0.38	44.06 1.02 3.20	48.62 1.02 -1.37	63.14 1.13 -13.10	56.36 1.39 2.87	46.33 1.05 -1.32	34.73 1.27 17.49	50.51 0.93 -13.65	47.28 0.74 -17.05	39.27 0.85 -6.95	39.67 0.93 -6.65
BETHLEHEM___STEEL 23779	32.16 0.68 -1.93	31.10 0.44 -1.32	31.00 0.18 -0.51	28.69 -0.17 -0.76	28.43 -0.20 -0.48	31.02 -0.03 -0.24	30.33 0.21 -0.78	31.22 0.06 -1.40	35.73 -0.61 -0.69	38.23 -0.68 -0.91	42.02 -0.64 -0.24	42.58 -0.13 -1.03	45.79 -0.04 -1.22	47.10 0.18 -1.94	47.99 0.05 -1.70	49.50 -0.42 -3.68	52.84 -0.54 -4.47	60.58 -0.81 -3.54	46.52 -0.53 -3.08	50.57 -0.71 -0.34	38.59 1.04 -1.62	32.78 0.86 -2.43	33.52 0.44 -1.61	33.30 0.64 -0.56
BETHLHEM_115KV_TB1 79974	56.19 0.86 -25.79	47.79 0.85 -17.59	38.04 0.97 -6.76	39.21 0.93 -10.19	35.52 0.93 -6.44	35.05 1.02 -3.22	40.56 0.94 -10.29	45.26 0.92 -14.58	45.80 1.03 -9.12	51.11 1.10 -12.00	37.09 1.19 6.50	37.74 1.04 4.98	41.29 1.12 4.44	46.91 1.08 -0.86	45.46 1.11 1.89	50.96 1.11 -3.61	65.19 1.22 -15.06	58.94 1.50 0.42	48.29 1.14 -3.18	36.32 1.38 16.00	50.65 1.01 -13.71	47.72 0.83 -17.40	39.91 0.94 -7.50	39.62 0.99 -6.54
BETHPAGE_CC_5 323564	66.52 2.19 -34.79	53.57 2.29 -21.93	50.90 2.61 -17.99	43.08 2.44 -12.55	41.50 2.50 -10.85	43.17 2.65 -9.72	41.36 2.79 -9.23	42.58 2.77 -10.05	60.87 3.10 -22.13	62.79 3.30 -21.48	70.37 3.48 -24.48	73.13 3.08 -28.36	75.00 3.35 -27.04	78.59 3.46 -30.15	84.60 3.56 -34.79	95.41 3.88 -45.28	115.95 4.30 -62.74	120.03 5.21 -56.97	94.93 3.82 -47.14	82.58 4.08 -27.56	73.87 2.91 -35.03	67.34 2.39 -35.46	48.78 2.83 -14.48	64.24 2.95 -29.20
BIGTREE_115_KV_TB2_REV_LBMP_A 345034	32.27 0.77 -1.96	31.18 0.50 -1.34	31.07 0.24 -0.51	28.75 -0.11 -0.77	28.52 -0.11 -0.49	31.08 0.03 -0.24	30.40 0.26 -0.79	31.33 0.15 -1.42	35.85 -0.50 -0.70	38.36 -0.57 -0.93	42.19 -0.47 -0.25	42.72 0.00 -1.04	45.99 0.13 -1.24	47.35 0.40 -1.97	48.25 0.28 -1.73	49.74 -0.23 -3.74	53.10 -0.34 -4.53	60.86 -0.58 -3.59	46.74 -0.35 -3.13	50.78 -0.51 -0.35	38.69 1.11 -1.64	32.87 0.91 -2.47	33.61 0.50 -1.63	33.37 0.71 -0.57
BINGHAMTON___COGEN 23790	34.26 0.62 -4.09	32.69 0.56 -2.79	31.87 0.48 -1.07	30.08 0.37 -1.62	29.53 0.37 -1.02	31.81 0.49 -0.51	31.47 0.47 -1.66	33.24 0.51 -2.97	37.47 0.36 -1.47	40.32 0.38 -1.94	43.43 0.51 -0.51	44.53 0.67 -2.18	47.92 0.71 -2.59	49.90 0.81 -4.12	50.59 0.74 -3.61	54.69 0.65 -7.81	59.05 0.68 -9.46	66.10 0.75 -7.49	51.06 0.57 -6.53	52.27 0.61 -0.72	40.22 0.86 -3.42	35.35 0.71 -5.15	35.47 0.60 -3.40	33.93 0.64 -1.20
BIXINCNT_115KV_LOAD 355685	32.53 0.89 -2.09	31.33 0.56 -1.43	31.13 0.27 -0.55	28.89 -0.03 -0.83	28.64 -0.03 -0.52	31.22 0.15 -0.26	30.57 0.38 -0.85	31.61 0.33 -1.52	36.04 -0.36 -0.75	38.61 -0.38 -0.99	42.38 -0.30 -0.26	42.96 0.17 -1.12	46.12 0.18 -1.32	47.62 0.54 -2.11	48.55 0.46 -1.84	50.14 -0.09 -3.99	53.51 -0.24 -4.84	61.17 -0.52 -3.84	47.04 -0.26 -3.34	50.85 -0.46 -0.37	38.87 1.19 -1.75	33.07 0.94 -2.63	33.69 0.47 -1.74	33.44 0.74 -0.61
BLACK RIVER___HYD 24047	30.20 0.65 0.00	29.93 0.59 0.00	30.61 0.30 0.00	28.37 0.28 0.00	28.31 0.17 0.00	30.96 0.15 0.00	29.16 -0.17 0.00	29.58 -0.18 0.00	35.28 -0.36 0.00	37.78 -0.23 0.00	42.20 -0.21 0.00	41.64 -0.04 0.00	44.48 -0.13 0.00	44.71 -0.27 0.00	45.92 -0.32 0.00	46.01 -0.23 0.00	48.66 -0.24 0.00	57.68 -0.17 0.00	43.79 -0.18 0.00	51.09 0.15 0.00	36.22 0.29 0.00	29.67 0.18 0.00	31.60 0.13 0.00	32.02 -0.06 0.00



BLACKRVR_115KV_TB2 79977	30.20 0.65 0.00	29.93 0.59 0.00	30.61 0.30 0.00	28.37 0.28 0.00	28.31 0.17 0.00	30.96 0.15 0.00	29.16 -0.18 0.00	29.58 -0.18 0.00	35.28 -0.36 0.00	37.81 -0.19 0.00	42.20 -0.21 0.00	41.64 -0.04 0.00	44.48 -0.13 0.00	44.70 -0.27 0.00	45.92 -0.32 0.00	46.01 -0.23 0.00	48.66 -0.24 0.00	57.68 -0.17 0.00	43.79 -0.18 0.00	51.09 0.15 0.00	36.22 0.29 0.00	29.67 0.18 0.00	31.60 0.13 0.00	32.02 -0.06 0.00
BLISS_WT_PWR 323608	32.53 0.89 -2.09	31.30 0.53 -1.43	31.13 0.27 -0.55	28.86 -0.06 -0.83	28.55 -0.11 -0.52	31.19 0.12 -0.26	30.54 0.35 -0.85	31.61 0.33 -1.52	36.07 -0.32 -0.75	38.58 -0.42 -0.99	42.33 -0.34 -0.26	42.92 0.13 -1.12	46.03 0.09 -1.32	47.62 0.54 -2.11	48.55 0.46 -1.84	50.00 -0.23 -3.99	53.50 -0.24 -4.84	61.28 -0.40 -3.83	47.04 -0.26 -3.34	50.85 -0.46 -0.37	38.83 1.15 -1.75	33.07 0.94 -2.63	33.62 0.41 -1.74	33.41 0.71 -0.61
BLUE_CIRC_CHEM_DRP 24182	53.62 1.36 -22.71	46.19 1.35 -15.49	37.72 1.45 -5.95	38.45 1.38 -8.98	35.17 1.35 -5.68	35.13 1.48 -2.84	39.78 1.35 -9.09	44.67 1.34 -13.57	45.20 1.50 -8.06	50.21 1.60 -10.61	39.99 1.61 4.03	41.68 1.50 1.50	42.92 1.56 3.26	50.54 1.57 -3.99	49.80 1.57 -1.99	57.58 1.57 -9.77	71.44 1.66 -20.87	66.69 2.02 -6.82	54.04 1.54 -8.54	42.27 1.83 10.50	50.93 1.55 -13.45	48.72 1.27 -17.95	41.90 1.38 -9.04	39.47 1.44 -5.94
BOC_GAS_DRP 24189	52.62 0.95 -22.13	45.38 0.94 -15.10	37.20 1.09 -5.80	37.88 1.04 -8.75	34.74 1.07 -5.53	34.71 1.14 -2.77	39.28 1.06 -8.89	44.54 1.04 -13.73	44.70 1.18 -7.88	49.62 1.25 -10.37	40.99 1.31 2.74	43.89 1.13 -1.08	47.15 1.20 -1.33	53.91 1.21 -7.72	52.82 1.20 -5.38	63.50 1.25 -16.01	76.24 1.42 -25.92	72.81 1.74 -13.22	58.84 1.32 -13.56	44.69 1.48 7.73	51.16 1.15 -14.08	49.78 0.94 -19.34	43.06 1.07 -10.52	39.19 1.19 -5.91
BOONVILLE_115KV_TB1 79983	30.32 0.77 0.00	30.08 0.73 0.00	30.92 0.61 0.00	28.65 0.56 0.00	28.68 0.53 0.00	31.36 0.55 0.00	29.75 0.41 0.00	30.24 0.48 0.00	36.28 0.64 0.00	38.88 0.87 0.00	43.47 1.06 0.00	42.93 1.25 0.00	45.82 1.20 0.00	46.14 1.17 0.00	47.40 1.16 0.00	47.30 1.06 0.00	50.03 1.12 0.00	59.01 1.16 0.00	44.75 0.79 0.00	51.91 0.97 0.00	36.73 0.79 0.00	30.08 0.59 0.00	32.04 0.57 0.00	32.57 0.48 0.00
BORALEX_4TH_BRANCH 23824	62.97 1.89 -31.53	52.73 1.88 -21.51	40.63 2.06 -8.26	42.47 1.91 -12.46	37.96 1.94 -7.88	36.87 2.12 -3.94	44.99 2.11 -13.54	62.85 2.11 -30.97	65.13 2.42 -27.06	80.37 2.62 -39.75	66.50 2.89 -21.21	93.53 2.71 -49.14	95.55 2.90 -48.03	121.37 2.92 -73.48	119.32 3.00 -70.07	187.52 3.05 -138.23	205.53 3.33 -153.30	201.81 3.94 -140.03	163.00 2.99 -116.05	96.23 3.41 -41.88	79.54 2.48 -41.13	99.01 2.03 -67.48	85.42 2.23 -51.71	45.77 2.37 -11.31
BOWLINE___1 23526	42.54 1.18 -11.81	38.66 1.26 -8.06	34.92 1.51 -3.09	34.17 1.40 -4.67	32.53 1.43 -2.95	33.83 1.54 -1.48	35.73 1.61 -4.78	39.95 1.64 -8.55	41.66 1.78 -4.24	45.48 1.90 -5.58	46.05 2.16 -1.48	49.91 1.88 -6.36	54.70 2.05 -8.04	59.19 2.11 -12.10	58.98 2.22 -10.52	71.50 2.50 -22.76	79.03 2.84 -27.29	83.07 3.41 -21.80	65.40 2.46 -18.98	55.52 2.50 -2.08	47.52 1.72 -9.86	45.73 1.42 -14.82	42.95 1.67 -9.81	37.30 1.76 -3.45
BOWLINE___2 23595	42.57 1.21 -11.81	38.69 1.29 -8.06	34.95 1.54 -3.10	34.19 1.43 -4.67	32.56 1.46 -2.95	33.86 1.57 -1.48	35.76 1.64 -4.78	39.98 1.67 -8.55	41.69 1.82 -4.24	45.52 1.94 -5.58	46.09 2.20 -1.48	49.95 1.92 -6.36	54.75 2.10 -8.04	59.23 2.16 -12.10	59.03 2.27 -10.52	71.54 2.54 -22.77	79.08 2.88 -27.29	83.13 3.47 -21.80	65.44 2.50 -18.98	55.57 2.55 -2.08	47.56 1.76 -9.86	45.76 1.44 -14.83	42.98 1.70 -9.81	37.33 1.80 -3.45
BRADY___115KV_TB2 356060	29.55 0.00 0.00	29.34 0.00 0.00	30.16 -0.15 0.00	28.01 -0.08 0.00	28.03 -0.11 0.00	30.53 -0.28 0.00	28.93 -0.41 0.00	29.35 -0.42 0.00	35.28 -0.36 0.00	37.70 -0.30 0.00	42.03 -0.38 0.00	41.39 -0.29 0.00	44.26 -0.36 0.00	44.48 -0.49 0.00	45.92 -0.32 0.00	45.91 -0.32 0.00	48.37 -0.54 0.00	57.04 -0.81 0.00	43.48 -0.48 0.00	50.69 -0.25 0.00	35.36 -0.57 0.00	29.02 -0.47 0.00	31.19 -0.28 0.00	31.64 -0.45 0.00
BRANSCOMB___SOLAR 323811	69.92 2.28 -38.10	57.56 2.23 -25.99	42.57 2.27 -9.98	45.23 2.08 -15.06	39.75 2.08 -9.52	37.85 2.28 -4.76	47.61 2.14 -16.14	65.86 2.14 -33.96	63.77 2.49 -25.64	77.51 2.66 -36.85	63.22 3.01 -17.79	89.54 3.04 -44.82	93.46 3.26 -45.59	118.47 3.37 -70.13	115.41 3.47 -65.69	181.70 3.37 -132.09	201.71 3.52 -149.28	194.24 4.11 -132.28	157.94 3.21 -110.77	88.75 3.72 -34.10	81.89 2.73 -43.23	101.06 2.33 -69.23	84.98 2.39 -51.12	47.36 2.47 -12.80
BRENTWOD_69_KV_W. BRTWOOD 56703	67.38 3.04 -34.79	54.45 3.17 -21.93	51.84 3.55 -17.99	43.93 3.29 -12.55	42.32 3.32 -10.86	44.10 3.57 -9.72	42.15 3.58 -9.23	43.64 3.63 -10.24	61.87 4.10 -22.13	63.82 4.33 -21.49	71.43 4.50 -24.53	77.11 4.04 -31.39	79.08 4.33 -30.14	88.56 4.14 -39.44	101.78 4.30 -51.23	109.99 4.39 -59.36	136.46 4.89 -82.66	137.04 5.79 -73.41	101.27 4.31 -53.00	100.45 4.99 -44.52	82.78 3.77 -43.08	75.71 3.10 -43.12	52.48 3.62 -17.39	67.45 3.82 -31.54
BRISTLHL_115KV_TB1 79998	29.19 -0.35 0.00	28.96 -0.38 0.00	29.82 -0.48 0.00	27.59 -0.51 0.00	27.64 -0.51 0.00	30.32 -0.49 0.00	28.87 -0.47 0.00	29.32 -0.45 0.00	34.93 -0.71 0.00	37.32 -0.68 0.00	41.69 -0.72 0.00	41.05 -0.63 0.00	43.99 -0.62 0.00	44.43 -0.54 0.00	45.55 -0.69 0.00	45.54 -0.69 0.00	48.13 -0.78 0.00	56.87 -0.98 0.00	43.17 -0.79 0.00	50.02 -0.92 0.00	35.54 -0.40 0.00	29.20 -0.29 0.00	31.06 -0.41 0.00	31.64 -0.45 0.00
BROOKHAVEN___DRP 24191	67.11 2.78 -34.79	54.27 2.99 -21.93	51.79 3.49 -18.00	43.94 3.29 -12.56	42.36 3.35 -10.87	44.04 3.51 -9.72	42.22 3.64 -9.24	43.67 3.63 -10.27	61.81 4.03 -22.14	63.64 4.14 -21.49	71.57 4.45 -24.71	89.69 4.13 -43.89	91.93 4.42 -42.90	127.11 4.32 -77.82	169.78 4.44 -119.10	168.40 4.67 -117.49	218.91 5.09 -164.92	234.45 6.02 -170.58	169.50 4.48 -121.06	170.63 5.15 -114.55	116.04 3.81 -76.30	107.38 3.13 -74.76	68.62 3.59 -33.56	77.07 3.85 -41.13
BROOKLYN_NAVY_YARD 23515	43.18 1.33 -12.30	39.17 1.44 -8.39	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.75 -3.07	34.16 1.82 -1.54	36.31 2.00 -4.98	40.66 1.99 -8.90	42.26 2.21 -4.41	46.16 2.36 -5.80	46.49 2.54 -1.54	50.47 2.17 -6.62	55.43 2.41 -8.41	60.10 2.52 -12.61	59.79 2.59 -10.96	73.00 3.05 -23.72	80.84 3.52 -28.41	84.85 4.28 -22.71	66.76 3.03 -19.77	56.11 3.00 -2.17	48.25 2.05 -10.27	46.58 1.65 -15.43	43.73 2.04 -10.21	37.79 2.12 -3.59
BROOKLYN___ARMY_DRP 323595	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59



BROOKVLE_69_KV_TB1 55790	66.38 2.04 -34.79	53.39 2.11 -21.93	50.72 2.42 -17.98	42.88 2.25 -12.54	41.27 2.28 -10.85	42.95 2.43 -9.71	41.08 2.52 -9.22	41.95 2.59 -9.60	60.68 2.92 -22.12	62.63 3.15 -21.48	70.41 3.52 -24.48	73.01 3.25 -28.08	74.89 3.52 -26.76	77.91 3.64 -29.29	83.31 3.79 -33.27	94.38 4.16 -43.98	114.39 4.60 -60.89	118.33 5.44 -55.03	93.02 3.96 -45.10	81.05 4.13 -25.99	73.09 2.87 -34.28	66.60 2.36 -34.75	48.04 2.67 -13.90	63.75 2.86 -28.81
BROOME_2_LFGE 323671	34.26 0.62 -4.09	32.69 0.56 -2.79	31.87 0.48 -1.07	30.07 0.36 -1.62	29.53 0.36 -1.02	31.81 0.49 -0.51	31.46 0.47 -1.66	33.24 0.51 -2.97	37.47 0.36 -1.47	40.32 0.38 -1.94	43.43 0.51 -0.51	44.52 0.66 -2.18	47.91 0.71 -2.59	49.91 0.81 -4.12	50.59 0.74 -3.61	54.65 0.60 -7.81	59.05 0.68 -9.46	66.09 0.75 -7.49	51.06 0.57 -6.53	52.28 0.61 -0.72	40.22 0.86 -3.42	35.35 0.71 -5.15	35.44 0.57 -3.40	33.93 0.64 -1.20
BROOME___LFGE 323600	34.26 0.62 -4.09	32.69 0.56 -2.79	31.87 0.48 -1.07	30.07 0.36 -1.62	29.53 0.36 -1.02	31.81 0.49 -0.51	31.46 0.47 -1.66	33.24 0.51 -2.97	37.47 0.36 -1.47	40.32 0.38 -1.94	43.43 0.51 -0.51	44.52 0.66 -2.18	47.91 0.71 -2.59	49.91 0.81 -4.12	50.59 0.74 -3.61	54.65 0.60 -7.81	59.05 0.68 -9.46	66.09 0.75 -7.49	51.06 0.57 -6.53	52.28 0.61 -0.72	40.22 0.86 -3.42	35.35 0.71 -5.15	35.44 0.57 -3.40	33.93 0.64 -1.20
BROWNFLS_115KV_TB_3_5 80003	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.90 -0.20 0.00	27.83 -0.31 0.00	30.29 -0.52 0.00	28.63 -0.70 0.00	29.08 -0.68 0.00	34.82 -0.82 0.00	37.20 -0.80 0.00	41.48 -0.93 0.00	40.89 -0.79 0.00	43.63 -0.98 0.00	43.90 -1.08 0.00	45.18 -1.06 0.00	45.22 -1.02 0.00	47.73 -1.17 0.00	56.46 -1.39 0.00	42.95 -1.01 0.00	50.02 -0.92 0.00	35.11 -0.83 0.00	28.82 -0.68 0.00	30.94 -0.54 0.00	31.38 -0.71 0.00
BROWNSV1_27_KV_LOAD 356125	43.50 1.65 -12.30	39.49 1.76 -8.39	35.65 2.12 -3.22	34.92 1.97 -4.86	33.24 2.03 -3.07	34.47 2.13 -1.54	36.60 2.29 -4.98	40.96 2.29 -8.90	42.58 2.53 -4.41	46.54 2.74 -5.80	47.00 3.05 -1.54	51.01 2.71 -6.62	55.97 2.94 -8.41	60.69 3.10 -12.61	60.39 3.19 -10.96	73.61 3.65 -23.72	81.48 4.16 -28.41	85.54 4.98 -22.71	67.29 3.56 -19.77	56.72 3.62 -2.17	48.68 2.48 -10.27	46.93 2.01 -15.43	44.04 2.36 -10.21	38.21 2.53 -3.59
BURROWS___LYONSDAL 23803	30.20 0.65 0.00	29.96 0.62 0.00	30.76 0.45 0.00	28.51 0.42 0.00	28.51 0.37 0.00	31.18 0.37 0.00	29.54 0.21 0.00	30.03 0.27 0.00	36.00 0.36 0.00	38.53 0.53 0.00	43.09 0.68 0.00	42.55 0.88 0.00	45.42 0.80 0.00	45.69 0.72 0.00	46.98 0.74 0.00	46.88 0.65 0.00	49.64 0.73 0.00	58.55 0.69 0.00	44.44 0.48 0.00	51.60 0.66 0.00	36.47 0.54 0.00	29.88 0.38 0.00	31.85 0.38 0.00	32.38 0.29 0.00
CAITHNESS_CC_1 323624	67.09 2.75 -34.79	54.21 2.93 -21.93	51.73 3.42 -18.00	43.85 3.20 -12.56	42.27 3.26 -10.87	43.98 3.45 -9.72	42.13 3.55 -9.24	43.55 3.51 -10.27	61.70 3.92 -22.14	63.57 4.07 -21.49	71.40 4.28 -24.71	89.40 3.92 -43.81	91.63 4.19 -42.82	126.68 4.14 -77.57	169.15 4.25 -118.65	167.79 4.44 -117.11	218.18 4.89 -164.38	232.73 5.78 -169.10	213.79 4.35 -165.48	169.97 4.94 -114.09	115.64 3.63 -76.08	107.05 3.01 -74.55	81.38 3.49 -46.41	76.81 3.66 -41.07
CALPINE BETH_PAGE_GT4 24209	66.46 2.13 -34.79	53.48 2.20 -21.93	50.81 2.52 -17.98	43.00 2.36 -12.54	41.42 2.42 -10.85	43.08 2.56 -9.71	41.24 2.67 -9.23	42.43 2.71 -9.96	60.79 3.03 -22.12	62.71 3.23 -21.48	70.33 3.44 -24.48	73.01 3.04 -28.29	74.89 3.30 -26.97	78.33 3.42 -29.93	84.17 3.51 -34.41	95.03 3.84 -44.95	115.48 4.30 -62.27	119.48 5.15 -56.48	92.80 3.74 -45.10	82.12 4.02 -27.16	73.61 2.84 -34.84	67.13 2.36 -35.28	48.14 2.77 -13.90	64.18 2.95 -29.14
CALPINE_BETH_PAGE_GT_4 323586	66.47 2.13 -34.79	53.48 2.20 -21.93	50.81 2.51 -17.98	43.00 2.36 -12.54	41.42 2.42 -10.85	43.08 2.56 -9.71	41.24 2.67 -9.23	42.43 2.71 -9.96	60.79 3.03 -22.12	62.71 3.23 -21.48	70.32 3.43 -24.48	73.01 3.04 -28.29	74.88 3.30 -26.97	78.32 3.42 -29.93	84.16 3.51 -34.41	95.07 3.88 -44.95	115.48 4.30 -62.27	119.48 5.15 -56.48	94.37 3.78 -46.62	82.12 4.02 -27.16	73.61 2.84 -34.84	67.13 2.36 -35.28	48.57 2.77 -14.33	64.12 2.89 -29.14
CALPINE_BP_GT1 23823	66.47 2.13 -34.79	53.48 2.20 -21.93	50.81 2.51 -17.98	43.00 2.36 -12.54	41.42 2.42 -10.85	43.08 2.56 -9.71	41.24 2.67 -9.23	42.43 2.71 -9.96	60.79 3.03 -22.12	62.71 3.23 -21.48	70.32 3.43 -24.48	73.01 3.04 -28.29	74.88 3.30 -26.97	78.32 3.42 -29.93	84.16 3.51 -34.41	95.07 3.88 -44.95	115.48 4.30 -62.27	119.48 5.15 -56.48	94.37 3.78 -46.62	82.12 4.02 -27.16	73.61 2.84 -34.84	67.13 2.36 -35.28	48.57 2.77 -14.33	64.12 2.89 -29.14
CALSPAN___DRP 24200	32.16 0.68 -1.93	31.10 0.44 -1.32	31.00 0.18 -0.51	28.69 -0.17 -0.76	28.43 -0.20 -0.48	31.02 -0.03 -0.24	30.33 0.21 -0.78	31.22 0.06 -1.40	35.73 -0.61 -0.69	38.23 -0.68 -0.91	42.02 -0.64 -0.24	42.58 -0.13 -1.03	45.79 -0.04 -1.22	47.10 0.18 -1.94	47.99 0.05 -1.70	49.50 -0.42 -3.68	52.84 -0.54 -4.47	60.58 -0.81 -3.54	46.52 -0.53 -3.08	50.57 -0.71 -0.34	38.59 1.04 -1.62	32.78 0.86 -2.43	33.52 0.44 -1.61	33.30 0.64 -0.56
CALVERTON___SOLAR 323806	67.23 2.90 -34.79	54.39 3.11 -21.93	51.94 3.64 -18.00	44.07 3.43 -12.56	42.50 3.49 -10.87	44.19 3.66 -9.72	42.39 3.81 -9.24	43.81 3.78 -10.27	61.95 4.17 -22.14	63.83 4.33 -21.49	71.83 4.71 -24.71	90.02 4.42 -43.92	92.28 4.73 -42.94	127.58 4.68 -77.93	170.34 4.81 -119.29	168.89 5.00 -117.66	219.49 5.43 -165.15	235.45 6.42 -171.18	216.36 4.79 -167.61	171.19 5.50 -114.75	116.42 4.10 -76.39	107.70 3.36 -74.85	81.93 3.81 -46.65	77.23 3.98 -41.16
CANDIGU_WT_PWR 323617	32.88 0.71 -2.63	31.69 0.56 -1.79	31.36 0.37 -0.69	29.24 0.11 -1.04	28.88 0.08 -0.66	31.45 0.31 -0.33	30.81 0.41 -1.06	31.96 0.30 -1.91	36.41 -0.18 -0.94	39.06 -0.19 -1.24	42.65 -0.08 -0.33	43.33 0.25 -1.40	46.45 0.18 -1.66	48.02 0.40 -2.64	48.89 0.33 -2.31	51.16 -0.09 -5.01	54.98 0.00 -6.07	62.60 -0.06 -4.81	48.15 0.00 -4.19	51.40 0.00 -0.46	39.17 1.04 -2.20	33.71 0.92 -3.30	34.22 0.57 -2.18	33.59 0.74 -0.77
CARR STREET_E_SYR 24060	29.34 -0.21 0.00	29.14 -0.20 0.00	29.98 -0.33 0.00	27.73 -0.37 0.00	27.78 -0.37 0.00	30.47 -0.34 0.00	29.02 -0.32 0.00	29.49 -0.27 0.00	35.21 -0.43 0.00	37.59 -0.42 0.00	41.99 -0.42 0.00	41.39 -0.29 0.00	44.35 -0.27 0.00	44.80 -0.18 0.00	45.92 -0.32 0.00	45.87 -0.37 0.00	48.47 -0.44 0.00	57.27 -0.58 0.00	43.48 -0.48 0.00	50.33 -0.61 0.00	35.79 -0.14 0.00	29.35 -0.15 0.00	31.22 -0.25 0.00	31.80 -0.29 0.00
CARTHAGE___PAPER 23857	30.02 0.47 0.00	29.79 0.44 0.00	30.49 0.18 0.00	28.26 0.17 0.00	28.20 0.06 0.00	30.78 -0.03 0.00	29.04 -0.29 0.00	29.49 -0.27 0.00	35.18 -0.46 0.00	37.66 -0.34 0.00	41.99 -0.42 0.00	41.39 -0.29 0.00	44.21 -0.40 0.00	44.44 -0.54 0.00	45.69 -0.55 0.00	45.77 -0.46 0.00	48.42 -0.49 0.00	57.39 -0.46 0.00	43.61 -0.35 0.00	50.89 -0.05 0.00	35.97 0.04 0.00	29.46 -0.03 0.00	31.47 0.00 0.00	31.87 -0.22 0.00



CASSADAGA_WT_PWR 323784	33.05 1.45 -2.05	31.92 1.18 -1.40	31.79 0.94 -0.54	29.41 0.51 -0.81	29.13 0.48 -0.51	31.84 0.77 -0.26	31.17 1.00 -0.83	32.23 0.98 -1.49	36.91 0.54 -0.74	39.50 0.53 -0.97	43.47 0.80 -0.26	43.90 1.13 -1.09	47.12 1.21 -1.30	48.57 1.53 -2.07	49.39 1.34 -1.81	50.85 0.69 -3.91	54.28 0.63 -4.74	62.19 0.58 -3.75	47.76 0.53 -3.27	51.92 0.61 -0.36	39.59 1.94 -1.72	33.72 1.65 -2.58	34.34 1.17 -1.71	34.10 1.41 -0.60
CE_DUNWOOD___DRP 24194	43.23 1.42 -12.26	39.24 1.53 -8.37	35.31 1.79 -3.21	34.63 1.69 -4.85	32.93 1.72 -3.06	34.16 1.82 -1.53	36.21 1.91 -4.96	40.58 1.93 -8.88	42.18 2.14 -4.40	46.07 2.28 -5.79	46.53 2.59 -1.53	50.53 2.25 -6.60	55.45 2.45 -8.38	60.11 2.56 -12.57	59.86 2.68 -10.93	72.89 3.01 -23.65	80.67 3.42 -28.33	84.61 4.11 -22.65	66.62 2.95 -19.71	56.11 3.01 -2.16	48.26 2.08 -10.24	46.60 1.71 -15.39	43.61 1.95 -10.18	37.82 2.15 -3.58
CE_MILLWOOD___DRP 24193	43.14 1.39 -12.20	39.14 1.47 -8.32	35.23 1.73 -3.20	34.55 1.63 -4.82	32.85 1.66 -3.05	34.09 1.76 -1.53	36.12 1.85 -4.94	40.47 1.88 -8.84	42.08 2.07 -4.38	45.93 2.17 -5.76	46.40 2.46 -1.53	50.42 2.17 -6.57	55.32 2.36 -8.34	59.96 2.47 -12.51	59.66 2.54 -10.87	72.63 2.87 -23.53	80.38 3.28 -28.19	84.32 3.93 -22.54	66.39 2.81 -19.61	55.99 2.90 -2.15	48.13 2.01 -10.19	46.46 1.65 -15.31	43.49 1.89 -10.13	37.73 2.09 -3.56
CE_NYC2_DRP 24202	43.11 1.27 -12.29	39.20 1.47 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.16 1.82 -1.54	36.34 2.02 -4.98	40.63 1.96 -8.91	42.08 2.03 -4.41	45.96 2.17 -5.80	46.36 2.42 -1.53	50.29 2.00 -6.61	55.16 2.14 -8.40	56.19 2.29 -8.93	53.59 2.36 -4.99	62.62 2.82 -13.57	78.85 3.23 -26.71	69.94 3.99 -8.09	55.20 2.73 -8.52	49.61 2.85 4.19	48.10 1.90 -10.26	46.48 1.56 -15.42	43.57 1.89 -10.21	37.95 2.28 -3.59
CE_NYC_DRP 24195	43.26 1.42 -12.30	39.26 1.53 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.20 2.39 -5.80	46.62 2.67 -1.54	50.64 2.33 -6.62	55.52 2.50 -8.41	60.24 2.65 -12.61	59.93 2.73 -10.96	73.10 3.14 -23.72	80.94 3.62 -28.41	84.90 4.34 -22.71	66.80 3.08 -19.77	56.21 3.11 -2.17	48.32 2.12 -10.27	46.67 1.74 -15.43	43.73 2.05 -10.21	37.92 2.25 -3.59
CHAFFEE___LFGE 323603	32.33 0.77 -2.01	31.22 0.50 -1.37	31.08 0.24 -0.53	28.75 -0.14 -0.80	28.45 -0.20 -0.50	31.06 0.00 -0.25	30.39 0.23 -0.82	31.37 0.15 -1.46	35.86 -0.50 -0.72	38.38 -0.57 -0.95	42.20 -0.47 -0.25	42.79 0.04 -1.07	46.02 0.13 -1.27	47.40 0.40 -2.03	48.34 0.33 -1.77	49.80 -0.28 -3.84	53.32 -0.24 -4.65	61.07 -0.46 -3.68	46.86 -0.31 -3.21	50.79 -0.51 -0.36	38.77 1.15 -1.68	32.94 0.92 -2.53	33.58 0.44 -1.67	33.35 0.67 -0.59
CHATEAUG_35_KV_LOAD 355732	29.28 -0.27 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.78 -0.37 0.00	30.38 -0.43 0.00	28.96 -0.38 0.00	29.46 -0.30 0.00	35.57 -0.07 0.00	37.89 -0.11 0.00	42.20 -0.21 0.00	41.47 -0.21 0.00	44.39 -0.22 0.00	44.66 -0.31 0.00	46.06 -0.18 0.00	46.05 -0.18 0.00	48.47 -0.44 0.00	57.39 -0.46 0.00	43.79 -0.18 0.00	50.99 0.05 0.00	35.61 -0.32 0.00	29.20 -0.29 0.00	31.22 -0.25 0.00	31.70 -0.39 0.00
CHATEAUG_WT_PWR 323614	29.28 -0.27 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.83 -0.31 0.00	30.41 -0.40 0.00	28.96 -0.38 0.00	29.49 -0.27 0.00	35.57 -0.07 0.00	37.93 -0.08 0.00	42.28 -0.13 0.00	41.51 -0.17 0.00	44.44 -0.18 0.00	44.71 -0.27 0.00	46.11 -0.14 0.00	46.10 -0.14 0.00	48.51 -0.39 0.00	57.39 -0.46 0.00	43.79 -0.18 0.00	50.94 0.00 0.00	35.61 -0.32 0.00	29.20 -0.29 0.00	31.22 -0.25 0.00	31.70 -0.38 0.00
CHAT_HIGH_FALL_HYD 323578	29.28 -0.27 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.83 -0.31 0.00	30.38 -0.43 0.00	28.96 -0.38 0.00	29.46 -0.30 0.00	35.57 -0.07 0.00	37.89 -0.11 0.00	42.20 -0.21 0.00	41.47 -0.21 0.00	44.39 -0.22 0.00	44.66 -0.31 0.00	46.06 -0.18 0.00	46.10 -0.14 0.00	48.47 -0.44 0.00	57.39 -0.46 0.00	43.79 -0.18 0.00	50.99 0.05 0.00	35.61 -0.32 0.00	29.20 -0.29 0.00	31.22 -0.25 0.00	31.70 -0.38 0.00
CHAUTAUQUA___LFGE 323629	32.74 1.18 -2.01	31.62 0.91 -1.37	31.50 0.67 -0.53	29.17 0.28 -0.79	28.90 0.25 -0.50	31.55 0.49 -0.25	30.85 0.70 -0.81	31.87 0.65 -1.46	36.47 0.11 -0.72	39.03 0.08 -0.95	42.96 0.30 -0.25	43.41 0.66 -1.07	46.69 0.80 -1.27	48.07 1.08 -2.02	48.99 0.97 -1.77	50.39 0.33 -3.83	53.84 0.30 -4.64	61.76 0.23 -3.67	47.38 0.22 -3.20	51.50 0.20 -0.35	39.23 1.62 -1.68	33.37 1.36 -2.52	34.05 0.91 -1.67	33.80 1.12 -0.59
CHERRYST_13_KV_LD 356241	43.35 1.51 -12.30	39.35 1.61 -8.39	35.50 1.97 -3.22	34.81 1.85 -4.86	33.13 1.91 -3.07	34.35 2.00 -1.54	36.45 2.14 -4.98	40.87 2.20 -8.90	42.47 2.42 -4.41	46.43 2.62 -5.80	46.87 2.93 -1.54	50.84 2.54 -6.62	55.79 2.77 -8.41	60.51 2.92 -12.61	60.21 3.01 -10.96	73.37 3.42 -23.72	81.23 3.91 -28.41	85.25 4.69 -22.71	67.02 3.30 -19.77	56.42 3.31 -2.17	48.46 2.26 -10.27	46.75 1.83 -15.43	43.85 2.17 -10.21	38.05 2.37 -3.59
CHESTROR_138KV_BK263 355645	41.86 1.15 -11.16	38.16 1.20 -7.62	34.66 1.42 -2.93	33.83 1.32 -4.41	32.26 1.32 -2.79	33.62 1.42 -1.40	35.32 1.47 -4.52	39.29 1.46 -8.07	41.24 1.60 -4.00	44.97 1.71 -5.26	45.76 1.95 -1.39	49.32 1.71 -5.93	53.44 1.78 -7.04	58.02 1.84 -11.20	57.99 1.94 -9.81	69.64 2.17 -21.23	77.16 2.49 -25.76	81.26 3.01 -20.39	63.88 2.15 -17.77	55.10 2.19 -1.97	46.80 1.55 -9.32	44.80 1.30 -14.01	42.22 1.48 -9.27	36.98 1.64 -3.26
CH_MIDHUDSON___DRP 24192	43.79 1.54 -12.70	39.60 1.58 -8.67	35.46 1.82 -3.33	34.80 1.69 -5.02	33.01 1.69 -3.17	34.21 1.82 -1.59	36.32 1.85 -5.14	40.84 1.85 -9.23	42.28 2.07 -4.57	46.22 2.20 -6.02	46.51 2.50 -1.59	50.67 2.21 -6.78	54.94 2.28 -8.05	60.13 2.34 -12.81	59.91 2.45 -11.22	73.24 2.73 -24.28	81.29 3.08 -29.30	84.76 3.70 -23.20	66.86 2.68 -20.22	55.98 2.80 -2.24	48.48 1.94 -10.60	47.05 1.62 -15.94	43.87 1.86 -10.55	37.82 2.02 -3.71
CH_MISC_IPPS 23765	43.67 1.71 -12.41	39.54 1.73 -8.46	35.50 1.94 -3.25	34.80 1.80 -4.91	33.02 1.77 -3.10	34.27 1.91 -1.55	36.29 1.94 -5.01	40.67 1.93 -8.97	42.26 2.17 -4.44	46.17 2.32 -5.85	46.63 2.67 -1.55	50.69 2.42 -6.59	54.94 2.50 -7.83	59.95 2.52 -12.46	59.83 2.68 -10.90	72.80 2.96 -23.60	80.83 3.33 -28.59	84.48 3.99 -22.64	66.59 2.90 -19.73	56.13 3.00 -2.18	48.29 2.01 -10.35	46.73 1.68 -15.55	43.71 1.95 -10.29	37.76 2.06 -3.62
CH_RES_BVR_FALLS 23983	29.13 -0.41 0.00	28.93 -0.41 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.81 -0.34 0.00	30.41 -0.40 0.00	28.96 -0.38 0.00	29.37 -0.39 0.00	35.28 -0.36 0.00	37.62 -0.38 0.00	41.94 -0.47 0.00	41.22 -0.46 0.00	44.12 -0.49 0.00	44.48 -0.52 0.00	45.78 -0.46 0.00	45.77 -0.46 0.00	48.37 -0.54 0.00	57.16 -0.69 0.00	43.52 -0.44 0.00	50.48 -0.46 0.00	35.43 -0.50 0.00	29.08 -0.41 0.00	31.06 -0.41 0.00	31.64 -0.45 0.00



CH_RES_NIAGARA 23895	31.06 -0.24 -1.75	30.10 -0.44 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.57 -1.01 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.28 -2.00 -0.63	36.59 -2.24 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.63 -2.10 -1.11	44.85 -1.89 -1.77	45.71 -2.08 -1.55	46.99 -2.59 -3.34	50.27 -2.69 -4.05	57.82 -3.24 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.20	32.11 -0.82 -1.46	32.22 -0.38 -0.51
CH_RES_SYRACUSE 23985	29.67 0.12 0.00	29.43 0.09 0.00	30.28 -0.03 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.78 -0.03 0.00	29.31 -0.03 0.00	29.79 0.03 0.00	35.53 -0.11 0.00	38.00 0.00 0.00	42.45 0.04 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.29 0.32 0.00	46.43 0.19 0.00	46.38 0.14 0.00	49.06 0.15 0.00	57.85 0.00 0.00	43.92 -0.04 0.00	50.84 -0.10 0.00	36.15 0.22 0.00	29.67 0.18 0.00	31.53 0.06 0.00	32.12 0.03 0.00
CLINTON_WT_PWR 323605	29.28 -0.27 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.83 -0.31 0.00	30.41 -0.40 0.00	28.96 -0.38 0.00	29.49 -0.27 0.00	35.57 -0.07 0.00	37.93 -0.08 0.00	42.28 -0.13 0.00	41.51 -0.17 0.00	44.44 -0.18 0.00	44.71 -0.27 0.00	46.11 -0.14 0.00	46.10 -0.14 0.00	48.51 -0.39 0.00	57.39 -0.46 0.00	43.79 -0.18 0.00	50.94 0.00 0.00	35.61 -0.32 0.00	29.20 -0.29 0.00	31.22 -0.25 0.00	31.70 -0.38 0.00
CLINTON___LFGE 323618	29.58 0.03 0.00	29.32 -0.03 0.00	30.13 -0.18 0.00	27.95 -0.14 0.00	28.09 -0.06 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.92 0.28 0.00	38.30 0.30 0.00	42.62 0.21 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.16 0.18 0.00	46.57 0.33 0.00	46.61 0.37 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.23 0.27 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.02 -0.06 0.00
COBBLENY_34_KV_TB1 80064	32.33 0.77 -2.01	31.22 0.50 -1.37	31.08 0.24 -0.53	28.75 -0.14 -0.80	28.51 -0.14 -0.50	31.06 0.00 -0.25	30.39 0.23 -0.82	31.37 0.15 -1.46	35.86 -0.50 -0.72	38.38 -0.57 -0.95	42.20 -0.47 -0.25	42.79 0.04 -1.07	46.02 0.13 -1.27	47.40 0.40 -2.03	48.30 0.28 -1.77	49.89 -0.18 -3.84	53.27 -0.29 -4.66	61.02 -0.52 -3.69	46.86 -0.31 -3.21	50.79 -0.51 -0.36	38.77 1.15 -1.68	32.94 0.91 -2.53	33.65 0.50 -1.68	33.35 0.67 -0.59
COFFEEN___115KV_TB3 355620	30.46 0.92 0.00	30.20 0.85 0.00	30.86 0.55 0.00	28.60 0.51 0.00	28.54 0.39 0.00	31.18 0.37 0.00	29.34 0.00 0.00	29.76 0.00 0.00	35.46 -0.18 0.00	38.04 0.04 0.00	42.49 0.08 0.00	41.93 0.25 0.00	44.79 0.18 0.00	45.02 0.04 0.00	46.20 -0.05 0.00	46.28 0.05 0.00	49.01 0.10 0.00	58.08 0.23 0.00	44.09 0.13 0.00	51.50 0.56 0.00	36.55 0.61 0.00	29.94 0.44 0.00	31.82 0.35 0.00	32.22 0.13 0.00
COLDSPRG_115KV_BK1 355956	33.09 1.39 -2.15	31.93 1.12 -1.47	31.75 0.88 -0.56	29.42 0.48 -0.85	29.19 0.51 -0.54	31.79 0.71 -0.27	31.15 0.94 -0.87	32.28 0.95 -1.56	36.70 0.29 -0.77	39.29 0.27 -1.02	43.19 0.51 -0.27	43.62 0.79 -1.15	46.87 0.89 -1.36	48.35 1.21 -2.17	49.25 1.11 -1.90	50.85 0.51 -4.10	54.28 0.39 -4.98	62.08 0.29 -3.94	47.75 0.35 -3.43	51.68 0.36 -0.38	39.42 1.69 -1.80	33.62 1.42 -2.71	34.21 0.94 -1.79	34.03 1.32 -0.63
COLONIE_LFGE___ 323577	66.05 1.62 -34.87	54.78 1.64 -23.79	41.20 1.76 -9.14	43.51 1.63 -13.79	38.49 1.63 -8.71	36.95 1.79 -4.36	46.28 1.79 -15.16	67.46 1.82 -35.88	70.69 2.07 -32.99	89.02 2.24 -48.77	71.69 2.50 -26.78	104.45 2.42 -60.36	103.85 2.63 -56.61	136.23 2.65 -88.60	134.24 2.73 -85.27	216.11 2.73 -167.14	236.89 2.88 -185.09	231.36 3.41 -170.09	187.09 2.59 -140.53	107.20 2.95 -53.31	86.53 2.19 -48.41	111.40 1.80 -80.11	95.55 1.92 -62.16	47.05 2.02 -12.94
COOPERNY_115KV_TB1 80082	38.86 0.89 -8.42	36.00 0.91 -5.75	33.58 1.06 -2.21	32.43 1.01 -3.33	31.26 1.01 -2.10	32.94 1.08 -1.05	33.83 1.09 -3.41	36.96 1.10 -6.10	39.87 1.21 -3.02	43.27 1.29 -3.97	44.90 1.44 -1.05	47.45 1.29 -4.48	51.31 1.38 -5.32	54.83 1.39 -8.46	55.13 1.48 -7.40	63.88 1.62 -16.03	70.19 1.86 -19.42	75.49 2.26 -15.38	58.99 1.63 -13.40	54.10 1.68 -1.48	44.18 1.22 -7.03	41.06 1.00 -10.56	39.59 1.13 -6.99	35.80 1.25 -2.46
COPENHAGEN_WT_PWR 323753	30.08 0.53 0.00	29.84 0.50 0.00	30.55 0.24 0.00	28.29 0.20 0.00	28.26 0.11 0.00	30.90 0.09 0.00	29.13 -0.20 0.00	29.58 -0.18 0.00	35.25 -0.39 0.00	37.74 -0.26 0.00	42.16 -0.25 0.00	41.55 -0.12 0.00	44.39 -0.22 0.00	44.66 -0.31 0.00	45.87 -0.37 0.00	45.92 -0.32 0.00	48.62 -0.29 0.00	57.56 -0.29 0.00	43.70 -0.26 0.00	50.94 0.00 0.00	36.15 0.22 0.00	29.61 0.12 0.00	31.53 0.06 0.00	31.96 -0.13 0.00
CORNELL_____ 23752	33.33 1.00 -2.78	32.21 0.97 -1.90	31.89 0.85 -0.73	29.87 0.67 -1.10	29.54 0.70 -0.69	32.02 0.86 -0.35	31.26 0.79 -1.13	32.61 0.83 -2.02	37.39 0.75 -1.00	40.15 0.84 -1.31	43.73 0.98 -0.35	44.33 1.17 -1.48	47.62 1.25 -1.76	49.12 1.35 -2.80	49.94 1.25 -2.45	52.74 1.20 -5.30	56.65 1.32 -6.42	64.44 1.50 -5.08	49.53 1.14 -4.43	52.81 1.38 -0.49	39.59 1.33 -2.32	34.05 1.06 -3.49	34.73 0.94 -2.31	33.80 0.90 -0.81
CORONA_AAV_69_KV_TB1 355595	66.49 2.16 -34.79	53.51 2.23 -21.93	50.80 2.52 -17.98	42.99 2.36 -12.54	41.38 2.39 -10.85	43.07 2.56 -9.71	41.14 2.58 -9.22	41.57 2.59 -9.22	60.61 2.85 -22.11	62.51 3.04 -21.47	70.20 3.31 -24.48	72.76 3.00 -28.08	74.63 3.26 -26.76	77.64 3.37 -29.29	83.03 3.51 -33.27	94.06 3.84 -43.98	114.15 4.35 -60.89	118.09 5.21 -55.03	92.88 3.82 -45.10	80.95 4.02 -25.99	73.02 2.80 -34.28	66.52 2.27 -34.75	48.04 2.67 -13.90	63.64 2.86 -28.69
CORTLAND_115KV_TB3 80093	32.31 0.65 -2.12	31.40 0.62 -1.44	31.38 0.52 -0.55	29.32 0.39 -0.84	29.09 0.42 -0.53	31.60 0.52 -0.26	30.66 0.47 -0.86	31.83 0.54 -1.53	36.86 0.46 -0.76	39.53 0.53 -1.00	43.35 0.68 -0.27	43.64 0.83 -1.13	46.84 0.89 -1.34	48.09 0.99 -2.13	48.99 0.88 -1.86	51.06 0.79 -4.04	54.68 0.88 -4.89	62.71 0.98 -3.87	48.04 0.70 -3.37	52.13 0.82 -0.37	38.60 0.90 -1.77	32.83 0.68 -2.66	33.83 0.60 -1.76	33.28 0.58 -0.62
COXSACKIE___GT 23611	53.35 2.39 -21.41	46.27 2.32 -14.60	38.25 2.33 -5.61	38.66 2.11 -8.46	35.52 2.03 -5.35	35.82 2.34 -2.68	40.07 2.17 -8.56	44.48 2.02 -12.69	39.71 2.35 -1.72	41.01 2.36 -0.65	41.26 2.84 3.99	42.57 2.79 1.91	42.79 2.63 4.46	50.50 2.65 -2.87	50.28 2.87 -1.16	56.83 2.77 -7.82	70.70 3.08 -18.71	66.70 3.76 -5.09	53.89 2.95 -6.99	44.10 3.47 10.31	50.75 2.30 -12.51	48.23 2.12 -16.61	42.04 2.33 -8.24	39.71 2.06 -5.57
CPV_VALLEY___CC1 323721	40.62 0.92 -10.16	37.24 0.97 -6.93	34.15 1.18 -2.66	33.20 1.09 -4.02	31.78 1.10 -2.54	33.28 1.20 -1.27	34.68 1.23 -4.11	38.34 1.22 -7.35	40.64 1.35 -3.64	44.24 1.44 -4.79	45.29 1.61 -1.27	48.50 1.42 -5.40	52.55 1.52 -6.41	56.76 1.57 -10.21	56.80 1.62 -8.93	67.43 1.85 -19.34	74.44 2.10 -23.43	78.95 2.54 -18.56	61.97 1.85 -16.17	54.62 1.89 -1.79	45.70 1.29 -8.48	43.33 1.09 -12.75	41.16 1.26 -8.43	36.40 1.35 -2.96



CPV_VALLEY___CC2 323722	40.62 0.92 -10.16	37.24 0.97 -6.93	34.15 1.18 -2.66	33.20 1.09 -4.02	31.78 1.10 -2.54	33.28 1.20 -1.27	34.68 1.23 -4.11	38.34 1.22 -7.35	40.64 1.35 -3.64	44.24 1.44 -4.79	45.29 1.61 -1.27	48.50 1.42 -5.40	52.55 1.52 -6.41	56.76 1.57 -10.21	56.80 1.62 -8.93	67.43 1.85 -19.34	74.44 2.10 -23.43	78.95 2.54 -18.56	61.97 1.85 -16.17	54.62 1.89 -1.79	45.70 1.29 -8.48	43.33 1.09 -12.75	41.16 1.26 -8.43	36.40 1.35 -2.96
CRESCENT___HYD 24018	66.05 1.62 -34.87	54.78 1.64 -23.79	41.20 1.76 -9.14	43.51 1.63 -13.79	38.49 1.63 -8.71	36.95 1.79 -4.36	46.28 1.79 -15.16	67.46 1.82 -35.88	70.69 2.07 -32.99	89.02 2.24 -48.77	71.69 2.50 -26.78	104.45 2.42 -60.36	103.85 2.63 -56.61	136.23 2.65 -88.60	134.24 2.73 -85.27	216.11 2.73 -167.14	236.89 2.88 -185.09	231.36 3.41 -170.09	187.09 2.59 -140.53	107.20 2.95 -53.31	86.53 2.19 -48.41	111.40 1.80 -80.11	95.55 1.92 -62.16	47.05 2.02 -12.94
CRICKET___VALLEY_CC1 323756	44.36 1.30 -13.51	39.94 1.38 -9.22	35.46 1.61 -3.54	34.95 1.52 -5.34	33.04 1.52 -3.38	34.13 1.63 -1.69	36.48 1.67 -5.47	41.23 1.67 -9.80	42.35 1.85 -4.85	46.33 1.94 -6.39	46.22 2.12 -1.69	50.84 1.79 -7.37	56.40 1.92 -9.87	61.02 1.93 -14.11	60.42 1.99 -12.19	74.84 2.22 -26.38	82.75 2.54 -31.30	86.20 3.12 -25.23	68.18 2.28 -21.94	55.72 2.39 -2.38	48.99 1.76 -11.30	47.92 1.44 -16.98	44.40 1.70 -11.24	37.86 1.83 -3.95
CRICKET___VALLEY_CC2 323757	44.36 1.30 -13.51	39.94 1.38 -9.22	35.46 1.61 -3.54	34.95 1.52 -5.34	33.04 1.52 -3.38	34.13 1.63 -1.69	36.48 1.67 -5.47	41.23 1.67 -9.80	42.35 1.85 -4.85	46.33 1.94 -6.39	46.22 2.12 -1.69	50.84 1.79 -7.37	56.40 1.92 -9.87	61.02 1.93 -14.11	60.42 1.99 -12.19	74.84 2.22 -26.38	82.75 2.54 -31.30	86.20 3.12 -25.23	68.18 2.28 -21.94	55.72 2.39 -2.38	48.99 1.76 -11.30	47.92 1.44 -16.98	44.40 1.70 -11.24	37.86 1.83 -3.95
CRICKET___VALLEY_CC3 323758	44.36 1.30 -13.51	39.94 1.38 -9.22	35.46 1.61 -3.54	34.95 1.52 -5.34	33.04 1.52 -3.38	34.13 1.63 -1.69	36.48 1.67 -5.47	41.23 1.67 -9.80	42.35 1.85 -4.85	46.33 1.94 -6.39	46.22 2.12 -1.69	50.84 1.79 -7.37	56.40 1.92 -9.87	61.02 1.93 -14.11	60.42 1.99 -12.19	74.84 2.22 -26.38	82.75 2.54 -31.30	86.20 3.12 -25.23	68.18 2.28 -21.94	55.72 2.39 -2.38	48.99 1.76 -11.30	47.92 1.44 -16.98	44.40 1.70 -11.24	37.86 1.83 -3.95
CRUCIBLE_METL_DRP 24180	29.67 0.12 0.00	29.43 0.09 0.00	30.28 -0.03 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.78 -0.03 0.00	29.31 -0.03 0.00	29.79 0.03 0.00	35.53 -0.11 0.00	38.00 0.00 0.00	42.45 0.04 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.29 0.31 0.00	46.43 0.18 0.00	46.42 0.18 0.00	49.05 0.15 0.00	57.85 0.00 0.00	43.92 0.00 0.00	50.84 -0.10 0.00	36.15 0.22 0.00	29.64 0.15 0.00	31.53 0.06 0.00	32.12 0.03 0.00
DAHOWA___HYDRO 323763	70.55 2.45 -38.55	58.05 2.41 -26.30	42.83 2.43 -10.10	45.52 2.19 -15.24	39.97 2.20 -9.63	38.03 2.40 -4.82	47.86 2.26 -16.27	65.62 2.26 -33.60	62.75 2.67 -24.44	75.76 2.85 -34.91	61.98 3.22 -16.35	87.27 3.29 -42.30	91.94 3.52 -43.80	115.72 3.64 -67.11	112.45 3.70 -62.51	176.16 3.56 -126.36	196.03 3.72 -143.40	188.31 4.34 -126.12	153.25 3.39 -105.91	85.87 3.92 -31.01	81.15 2.88 -42.34	99.39 2.48 -67.41	83.29 2.52 -49.30	47.42 2.57 -12.76
DANC___LFGE 323619	29.76 0.21 0.00	29.52 0.18 0.00	30.28 -0.03 0.00	28.04 -0.06 0.00	28.00 -0.14 0.00	30.66 -0.15 0.00	29.04 -0.29 0.00	29.46 -0.30 0.00	35.11 -0.53 0.00	37.51 -0.50 0.00	41.90 -0.51 0.00	41.30 -0.38 0.00	44.17 -0.45 0.00	44.52 -0.45 0.00	45.69 -0.55 0.00	45.68 -0.55 0.00	48.32 -0.58 0.00	57.22 -0.64 0.00	43.44 -0.53 0.00	50.53 -0.41 0.00	35.86 -0.07 0.00	29.41 -0.09 0.00	31.28 -0.19 0.00	31.80 -0.29 0.00
DANSKAMMER___1 23586	43.67 1.71 -12.41	39.54 1.73 -8.46	35.50 1.94 -3.25	34.80 1.80 -4.91	33.02 1.77 -3.10	34.27 1.91 -1.55	36.29 1.94 -5.01	40.67 1.93 -8.97	42.26 2.17 -4.44	46.17 2.32 -5.85	46.63 2.67 -1.55	50.69 2.42 -6.59	54.94 2.50 -7.83	59.95 2.52 -12.46	59.83 2.68 -10.90	72.80 2.96 -23.60	80.83 3.33 -28.59	84.48 3.99 -22.64	66.59 2.90 -19.73	56.13 3.00 -2.18	48.29 2.01 -10.35	46.73 1.68 -15.55	43.71 1.95 -10.29	37.76 2.06 -3.62
DANSKAMMER___2 23589	43.67 1.71 -12.41	39.54 1.73 -8.46	35.50 1.94 -3.25	34.80 1.80 -4.91	33.02 1.77 -3.10	34.27 1.91 -1.55	36.29 1.94 -5.01	40.67 1.93 -8.97	42.26 2.17 -4.44	46.17 2.32 -5.85	46.63 2.67 -1.55	50.69 2.42 -6.59	54.94 2.50 -7.83	59.95 2.52 -12.46	59.83 2.68 -10.90	72.80 2.96 -23.60	80.83 3.33 -28.59	84.48 3.99 -22.64	66.59 2.90 -19.73	56.13 3.00 -2.18	48.29 2.01 -10.35	46.73 1.68 -15.55	43.71 1.95 -10.29	37.76 2.06 -3.62
DANSKAMMER___3 23590	43.67 1.71 -12.41	39.54 1.73 -8.46	35.50 1.94 -3.25	34.80 1.80 -4.91	33.02 1.77 -3.10	34.27 1.91 -1.55	36.29 1.94 -5.01	40.67 1.93 -8.97	42.26 2.17 -4.44	46.17 2.32 -5.85	46.63 2.67 -1.55	50.69 2.42 -6.59	54.94 2.50 -7.83	59.95 2.52 -12.46	59.83 2.68 -10.90	72.80 2.96 -23.60	80.83 3.33 -28.59	84.48 3.99 -22.64	66.59 2.90 -19.73	56.13 3.00 -2.18	48.29 2.01 -10.35	46.73 1.68 -15.55	43.71 1.95 -10.29	37.76 2.06 -3.62
DANSKAMMER___4 23591	43.67 1.71 -12.41	39.54 1.73 -8.46	35.50 1.94 -3.25	34.80 1.80 -4.91	33.02 1.77 -3.10	34.27 1.91 -1.55	36.29 1.94 -5.01	40.67 1.93 -8.97	42.26 2.17 -4.44	46.17 2.32 -5.85	46.63 2.67 -1.55	50.69 2.42 -6.59	54.94 2.50 -7.83	59.95 2.52 -12.46	59.83 2.68 -10.90	72.80 2.96 -23.60	80.83 3.33 -28.59	84.48 3.99 -22.64	66.59 2.90 -19.73	56.13 3.00 -2.18	48.29 2.01 -10.35	46.73 1.68 -15.55	43.71 1.95 -10.29	37.76 2.06 -3.62
DANSKAMMER___DIESEL 23592	43.67 1.71 -12.41	39.54 1.73 -8.46	35.50 1.94 -3.25	34.80 1.80 -4.91	33.02 1.77 -3.10	34.27 1.91 -1.55	36.29 1.94 -5.01	40.73 1.93 -9.03	42.29 2.17 -4.47	46.21 2.32 -5.89	46.64 2.67 -1.56	50.73 2.42 -6.64	54.95 2.45 -7.88	60.03 2.52 -12.54	59.90 2.68 -10.97	72.91 2.91 -23.76	80.85 3.33 -28.62	84.50 3.99 -22.66	66.60 2.90 -19.74	56.13 3.01 -2.18	48.30 2.01 -10.35	46.77 1.71 -15.57	43.69 1.92 -10.30	37.83 2.12 -3.62
DARBY___SOLAR 323810	69.97 2.31 -38.12	57.61 2.26 -26.00	42.60 2.30 -9.99	45.27 2.11 -15.07	39.75 2.08 -9.53	37.88 2.31 -4.76	47.68 2.20 -16.14	65.90 2.20 -33.94	63.78 2.57 -25.58	77.53 2.77 -36.75	63.27 3.14 -17.72	89.54 3.17 -44.69	93.51 3.39 -45.50	118.46 3.51 -69.98	115.34 3.56 -65.54	181.51 3.47 -131.80	201.52 3.62 -148.99	194.00 4.17 -131.98	157.74 3.25 -110.53	88.60 3.72 -33.94	81.88 2.77 -43.18	100.97 2.33 -69.14	84.92 2.42 -51.03	47.36 2.47 -12.80
DASHVILLE___HYD 23610	44.88 0.89 -14.44	40.14 0.94 -9.85	35.28 1.18 -3.78	34.90 1.10 -5.71	32.85 1.10 -3.61	33.78 1.17 -1.80	36.38 1.23 -5.81	40.74 1.22 -9.75	42.13 1.32 -5.17	46.25 1.44 -6.80	44.95 2.46 -0.08	48.07 2.13 -4.26	51.41 2.14 -4.65	56.91 2.16 -9.77	56.74 2.31 -8.18	67.91 2.59 -19.09	77.25 2.98 -25.36	79.00 3.53 -17.62	62.52 2.55 -16.01	52.43 2.60 1.11	47.67 1.08 -10.66	46.25 1.30 -15.46	42.68 1.70 -9.51	37.47 1.35 -4.04



DEERFIELD_69_KV_DEERFIELD LD 355887	68.18 3.84 -34.79	55.33 4.05 -21.93	52.88 4.58 -18.00	44.95 4.30 -12.56	43.34 4.33 -10.87	45.12 4.59 -9.72	43.30 4.72 -9.24	44.77 4.73 -10.27	63.20 5.42 -22.14	65.20 5.70 -21.49	73.48 6.36 -24.71	91.82 6.17 -43.97	94.25 6.65 -42.99	129.70 6.66 -78.06	172.62 6.84 -119.53	171.13 7.03 -117.87	221.94 7.58 -165.45	238.82 8.91 -172.06	173.65 6.68 -123.01	173.58 7.64 -115.00	117.98 5.53 -76.51	108.94 4.48 -74.96	70.26 4.94 -33.85	78.52 5.23 -41.20
DELAWARE___LFGE 323621	39.58 1.21 -8.82	36.56 1.20 -6.02	33.89 1.27 -2.31	32.76 1.18 -3.49	31.56 1.21 -2.20	33.27 1.36 -1.10	34.11 1.17 -3.59	37.45 1.25 -6.43	40.22 1.39 -3.19	43.72 1.52 -4.19	45.30 1.78 -1.11	48.20 1.79 -4.73	52.05 1.83 -5.61	55.70 1.80 -8.93	55.82 1.76 -7.82	64.87 1.71 -16.92	71.31 1.91 -20.50	76.28 2.20 -16.23	59.82 1.71 -14.14	54.44 1.94 -1.56	44.86 1.51 -7.42	41.88 1.24 -11.15	40.14 1.29 -7.38	36.03 1.35 -2.59
DERFIELD_115KV_TB7 355931	29.61 0.06 0.00	29.40 0.06 0.00	30.37 0.06 0.00	28.15 0.06 0.00	28.20 0.06 0.00	30.87 0.06 0.00	29.40 0.06 0.00	29.82 0.06 0.00	35.71 0.07 0.00	38.08 0.08 0.00	42.54 0.13 0.00	41.80 0.13 0.00	44.75 0.13 0.00	45.06 0.09 0.00	46.34 0.09 0.00	46.28 0.05 0.00	49.01 0.10 0.00	57.91 0.06 0.00	44.05 0.09 0.00	51.04 0.10 0.00	36.04 0.11 0.00	29.58 0.09 0.00	31.53 0.06 0.00	32.18 0.10 0.00
DOGLEVILLE___HYD 23807	29.22 -0.32 0.00	29.02 -0.32 0.00	29.98 -0.33 0.00	27.78 -0.31 0.00	27.83 -0.31 0.00	30.47 -0.34 0.00	28.99 -0.35 0.00	29.44 -0.33 0.00	35.28 -0.36 0.00	37.85 -0.15 0.00	42.28 -0.13 0.00	41.60 -0.08 0.00	44.52 -0.09 0.00	44.75 -0.22 0.00	45.87 -0.37 0.00	45.82 -0.42 0.00	48.51 -0.39 0.00	56.99 -0.87 0.00	43.30 -0.66 0.00	50.18 -0.76 0.00	35.40 -0.54 0.00	29.11 -0.38 0.00	31.03 -0.44 0.00	31.67 -0.42 0.00
DUNKIRK___115KV_TB_200 55889	32.64 1.09 -2.00	31.56 0.85 -1.37	31.44 0.61 -0.52	29.11 0.22 -0.79	28.87 0.23 -0.50	31.49 0.43 -0.25	30.79 0.65 -0.81	31.78 0.57 -1.45	36.40 0.04 -0.72	38.91 -0.04 -0.95	42.83 0.17 -0.25	43.29 0.54 -1.07	46.55 0.67 -1.27	47.93 0.94 -2.02	48.80 0.79 -1.76	50.33 0.28 -3.82	53.64 0.10 -4.63	61.58 0.06 -3.67	47.29 0.13 -3.20	51.40 0.10 -0.35	39.16 1.55 -1.68	33.31 1.30 -2.52	34.05 0.91 -1.67	33.73 1.06 -0.59
DUNKIRK___1 23563	32.64 1.09 -2.00	31.56 0.85 -1.37	31.44 0.61 -0.52	29.11 0.22 -0.79	28.87 0.23 -0.50	31.49 0.43 -0.25	30.79 0.65 -0.81	31.78 0.57 -1.45	36.40 0.04 -0.72	38.91 -0.04 -0.95	42.83 0.17 -0.25	43.29 0.54 -1.07	46.55 0.67 -1.27	47.93 0.94 -2.02	48.80 0.79 -1.76	50.33 0.28 -3.82	53.64 0.10 -4.63	61.58 0.06 -3.67	47.29 0.13 -3.20	51.40 0.10 -0.35	39.16 1.55 -1.68	33.31 1.30 -2.52	34.05 0.91 -1.67	33.73 1.06 -0.59
DUNKIRK___2 23564	32.64 1.09 -2.00	31.56 0.85 -1.37	31.44 0.61 -0.52	29.11 0.22 -0.79	28.87 0.23 -0.50	31.49 0.43 -0.25	30.79 0.65 -0.81	31.78 0.57 -1.45	36.40 0.04 -0.72	38.91 -0.04 -0.95	42.83 0.17 -0.25	43.29 0.54 -1.07	46.55 0.67 -1.27	47.93 0.94 -2.02	48.80 0.79 -1.76	50.33 0.28 -3.82	53.64 0.10 -4.63	61.58 0.06 -3.67	47.29 0.13 -3.20	51.40 0.10 -0.35	39.16 1.55 -1.68	33.31 1.30 -2.52	34.05 0.91 -1.67	33.73 1.06 -0.59
DUNKIRK___3 23565	32.43 0.89 -1.99	31.35 0.65 -1.36	31.23 0.39 -0.52	28.91 0.03 -0.79	28.67 0.03 -0.50	31.27 0.22 -0.25	30.59 0.44 -0.81	31.54 0.33 -1.45	36.11 -0.25 -0.72	38.60 -0.34 -0.94	42.45 -0.21 -0.25	42.95 0.21 -1.06	46.19 0.31 -1.26	47.52 0.54 -2.01	48.42 0.42 -1.76	49.95 -0.09 -3.80	53.28 -0.24 -4.61	61.16 -0.35 -3.65	46.97 -0.18 -3.18	51.04 -0.25 -0.35	38.86 1.26 -1.67	33.07 1.06 -2.51	33.79 0.66 -1.66	33.51 0.83 -0.58
DUNKIRK___4 23566	32.43 0.89 -1.99	31.35 0.65 -1.36	31.23 0.39 -0.52	28.91 0.03 -0.79	28.67 0.03 -0.50	31.27 0.22 -0.25	30.59 0.44 -0.81	31.54 0.33 -1.45	36.11 -0.25 -0.72	38.60 -0.34 -0.94	42.45 -0.21 -0.25	42.95 0.21 -1.06	46.19 0.31 -1.26	47.52 0.54 -2.01	48.42 0.42 -1.76	49.95 -0.09 -3.80	53.28 -0.24 -4.61	61.16 -0.35 -3.65	46.97 -0.18 -3.18	51.04 -0.25 -0.35	38.86 1.26 -1.67	33.07 1.06 -2.51	33.79 0.66 -1.66	33.51 0.83 -0.58
DUNWOODS_138_KV_38W08_REV_LBMP_I 345000	43.32 1.48 -12.30	39.29 1.56 -8.39	35.38 1.85 -3.22	34.67 1.71 -4.86	32.99 1.77 -3.07	34.23 1.88 -1.54	36.28 1.97 -4.98	40.69 2.02 -8.91	42.30 2.25 -4.41	46.16 2.36 -5.80	46.62 2.67 -1.54	50.64 2.33 -6.62	55.61 2.59 -8.41	60.24 2.65 -12.61	59.98 2.77 -10.96	73.05 3.10 -23.72	80.89 3.57 -28.41	84.85 4.28 -22.71	66.81 3.08 -19.77	56.27 3.16 -2.17	48.36 2.16 -10.27	46.70 1.77 -15.43	43.73 2.05 -10.21	37.89 2.21 -3.59
E.WALDEN_115_KV_TR_1_REV_LBMP_G 345009	42.83 1.36 -11.93	38.86 1.38 -8.14	35.04 1.61 -3.13	34.30 1.49 -4.72	32.62 1.49 -2.98	33.90 1.60 -1.49	35.80 1.64 -4.82	40.17 1.67 -8.74	41.86 1.89 -4.33	45.71 2.01 -5.70	46.25 2.33 -1.51	50.18 2.08 -6.42	54.38 2.14 -7.62	59.27 2.16 -12.13	59.18 2.31 -10.62	71.77 2.54 -22.99	79.25 2.84 -27.51	82.99 3.36 -21.78	65.40 2.46 -18.98	55.54 2.50 -2.10	47.58 1.69 -9.95	45.90 1.45 -14.96	43.04 1.67 -9.90	37.40 1.83 -3.48
E179THST_138_KV_TB4_REV_LBMP_J 345001	43.18 1.33 -12.31	39.30 1.56 -8.40	35.51 1.97 -3.23	34.79 1.83 -4.87	33.11 1.89 -3.08	34.19 1.85 -1.54	36.34 2.02 -4.98	40.54 1.88 -8.91	41.90 1.85 -4.41	45.96 2.17 -5.80	46.32 2.37 -1.53	50.34 2.04 -6.61	55.24 2.23 -8.40	59.91 2.34 -12.60	59.65 2.45 -10.95	72.81 2.87 -23.71	80.60 3.28 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.77	56.05 2.95 -2.16	48.17 1.98 -10.26	46.54 1.62 -15.42	43.63 1.95 -10.21	38.06 2.37 -3.60
E179THST_13_KV_LOAD 356214	43.36 1.51 -12.31	39.47 1.73 -8.40	35.69 2.15 -3.23	34.96 1.99 -4.87	33.28 2.05 -3.08	34.35 2.00 -1.54	36.51 2.20 -4.98	40.72 2.05 -8.91	42.12 2.07 -4.41	46.23 2.43 -5.80	46.61 2.67 -1.53	50.63 2.33 -6.61	55.56 2.54 -8.40	60.23 2.65 -12.60	59.97 2.77 -10.95	73.18 3.24 -23.71	80.99 3.67 -28.42	85.08 4.51 -22.72	66.86 3.12 -19.77	56.41 3.31 -2.16	48.42 2.23 -10.26	46.75 1.83 -15.42	43.85 2.17 -10.21	38.28 2.60 -3.60
EAST HAMPTON___GT 23717	68.80 4.46 -34.79	55.94 4.67 -21.93	53.49 5.18 -18.00	45.48 4.83 -12.56	43.85 4.84 -10.87	45.74 5.21 -9.72	43.89 5.31 -9.24	45.36 5.33 -10.27	63.95 6.17 -22.14	66.11 6.61 -21.49	74.54 7.42 -24.71	92.86 7.21 -43.97	95.41 7.81 -42.99	130.87 7.82 -78.07	173.84 8.05 -119.55	172.34 8.23 -117.88	223.23 8.86 -165.47	240.45 10.47 -172.12	220.45 7.91 -168.57	174.87 8.91 -115.01	118.88 6.43 -76.52	109.65 5.19 -74.97	83.92 5.70 -46.75	79.16 5.87 -41.20
EAST RIVER___6 23660	43.38 1.54 -12.30	39.35 1.61 -8.39	35.50 1.97 -3.22	34.78 1.82 -4.86	33.10 1.89 -3.07	34.29 1.94 -1.54	36.45 2.14 -4.98	40.87 2.20 -8.90	42.48 2.42 -4.41	46.43 2.62 -5.80	46.87 2.92 -1.54	50.89 2.59 -6.62	55.88 2.86 -8.41	60.55 2.97 -12.61	60.25 3.05 -10.96	73.47 3.51 -23.72	81.33 4.01 -28.41	85.36 4.80 -22.71	67.11 3.39 -19.77	56.52 3.41 -2.17	48.57 2.37 -10.27	46.82 1.89 -15.43	43.95 2.27 -10.21	37.99 2.31 -3.59



EAST_RIVER___7 23524	43.38 1.54 -12.30	39.35 1.61 -8.39	35.50 1.97 -3.22	34.78 1.82 -4.86	33.10 1.89 -3.07	34.29 1.94 -1.54	36.45 2.14 -4.98	40.87 2.20 -8.90	42.48 2.42 -4.41	46.43 2.62 -5.80	46.87 2.92 -1.54	50.89 2.59 -6.62	55.88 2.86 -8.41	60.55 2.97 -12.61	60.25 3.05 -10.96	73.47 3.51 -23.72	81.33 4.01 -28.41	85.36 4.80 -22.71	67.11 3.39 -19.77	56.52 3.41 -2.17	48.57 2.37 -10.27	46.82 1.89 -15.43	43.95 2.27 -10.21	37.99 2.31 -3.59
EASTVIEW_138_KV_38W32_REV_LBMP_I 345002	43.23 1.42 -12.26	39.24 1.53 -8.37	35.31 1.79 -3.21	34.63 1.69 -4.85	32.93 1.72 -3.06	34.16 1.82 -1.53	36.21 1.91 -4.96	40.58 1.93 -8.88	42.18 2.14 -4.40	46.07 2.28 -5.79	46.53 2.59 -1.53	50.53 2.25 -6.60	55.45 2.45 -8.38	60.11 2.56 -12.57	59.86 2.68 -10.93	72.89 3.01 -23.65	80.67 3.42 -28.33	84.61 4.11 -22.65	66.62 2.95 -19.71	56.11 3.01 -2.16	48.26 2.08 -10.24	46.60 1.71 -15.39	43.61 1.95 -10.18	37.82 2.15 -3.58
EAST_HAMPTON___DIESEL 23722	68.80 4.46 -34.79	55.94 4.67 -21.93	53.49 5.18 -18.00	45.48 4.83 -12.56	43.85 4.84 -10.87	45.74 5.21 -9.72	43.89 5.31 -9.24	45.39 5.36 -10.27	63.98 6.20 -22.14	66.15 6.65 -21.49	74.54 7.42 -24.71	92.90 7.25 -43.97	95.41 7.81 -42.99	130.92 7.87 -78.07	173.84 8.05 -119.55	172.39 8.27 -117.88	223.23 8.86 -165.47	240.51 10.53 -172.12	220.44 7.91 -168.57	174.87 8.91 -115.01	118.88 6.43 -76.52	109.65 5.19 -74.97	83.92 5.70 -46.75	79.16 5.87 -41.20
EAST_PULASKI___ESR 323781	29.43 -0.12 0.00	29.20 -0.15 0.00	30.01 -0.30 0.00	27.78 -0.31 0.00	27.81 -0.34 0.00	30.47 -0.34 0.00	28.96 -0.38 0.00	29.40 -0.36 0.00	34.96 -0.68 0.00	37.32 -0.68 0.00	41.69 -0.72 0.00	41.05 -0.63 0.00	43.94 -0.67 0.00	44.34 -0.63 0.00	45.50 -0.74 0.00	45.45 -0.79 0.00	48.03 -0.88 0.00	56.81 -1.04 0.00	43.13 -0.84 0.00	50.08 -0.87 0.00	35.58 -0.36 0.00	29.26 -0.24 0.00	31.12 -0.35 0.00	31.64 -0.45 0.00
EAST_RIVER___1 323558	43.26 1.42 -12.30	39.26 1.52 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.24 2.43 -5.80	46.62 2.67 -1.54	50.63 2.33 -6.62	55.56 2.54 -8.41	60.24 2.65 -12.61	59.93 2.73 -10.96	73.10 3.15 -23.72	80.89 3.57 -28.41	84.91 4.34 -22.71	66.80 3.08 -19.77	56.21 3.11 -2.17	48.32 2.12 -10.27	46.64 1.71 -15.43	43.76 2.08 -10.21	37.86 2.18 -3.59
EAST_RIVER___2 323559	43.38 1.54 -12.30	39.35 1.61 -8.39	35.50 1.97 -3.22	34.78 1.82 -4.86	33.10 1.89 -3.07	34.29 1.94 -1.54	36.45 2.14 -4.98	40.87 2.20 -8.90	42.48 2.42 -4.41	46.43 2.62 -5.80	46.87 2.92 -1.54	50.89 2.59 -6.62	55.88 2.86 -8.41	60.55 2.97 -12.61	60.25 3.05 -10.96	73.47 3.51 -23.72	81.33 4.01 -28.41	85.36 4.80 -22.71	67.11 3.39 -19.77	56.52 3.41 -2.17	48.57 2.37 -10.27	46.82 1.89 -15.43	43.95 2.27 -10.21	37.99 2.31 -3.59
EAST___DELAWARE_HYD 23607	41.69 0.83 -11.32	37.92 0.85 -7.72	34.27 1.00 -2.97	33.49 0.93 -4.47	31.87 0.90 -2.83	33.21 0.99 -1.41	34.93 1.03 -4.57	38.95 1.01 -8.18	41.26 1.57 -4.05	44.96 1.63 -5.33	45.77 1.95 -1.41	49.34 1.75 -5.91	52.73 1.74 -6.37	56.48 0.45 -11.05	56.61 0.60 -9.77	68.26 0.88 -21.15	76.08 1.17 -26.00	79.99 1.80 -20.34	63.02 1.32 -17.74	54.05 1.12 -1.99	46.01 0.65 -9.42	44.93 1.27 -14.17	42.29 1.45 -9.37	36.92 1.54 -3.29
EIGHT_POINT___WT_PWR 323820	33.21 1.21 -2.45	32.04 1.03 -1.67	31.74 0.79 -0.64	29.54 0.48 -0.97	29.23 0.48 -0.61	31.89 0.77 -0.31	31.18 0.85 -0.99	32.31 0.77 -1.78	36.84 0.32 -0.88	39.54 0.38 -1.16	43.31 0.59 -0.31	43.94 0.96 -1.31	47.06 0.89 -1.55	48.61 1.17 -2.47	49.38 0.97 -2.16	51.47 0.56 -4.68	55.26 0.68 -5.67	62.98 0.64 -4.49	48.40 0.53 -3.91	52.03 0.66 -0.43	39.67 1.69 -2.05	33.96 1.39 -3.08	34.58 1.07 -2.04	34.02 1.22 -0.72
ELBRIDGE_115KV_TB2 80188	30.73 0.03 -1.15	30.16 0.03 -0.79	30.55 -0.06 -0.30	28.41 -0.14 -0.46	28.29 -0.14 -0.29	30.86 -0.09 -0.14	29.75 -0.06 -0.47	30.57 -0.03 -0.84	35.88 -0.18 -0.41	38.36 -0.19 -0.55	42.43 -0.13 -0.14	42.29 0.00 -0.61	45.34 0.00 -0.73	46.23 0.09 -1.16	47.21 -0.05 -1.02	48.39 -0.05 -2.20	51.43 -0.15 -2.67	59.79 -0.17 -2.11	45.67 -0.13 -1.84	50.94 -0.20 -0.20	37.04 0.14 -0.96	31.06 0.12 -1.45	32.43 0.00 -0.96	32.39 -0.03 -0.34
ELEC_TRO_TEK 24086	66.32 1.98 -34.79	53.36 2.08 -21.93	50.68 2.39 -17.98	42.85 2.22 -12.54	41.27 2.28 -10.85	42.92 2.40 -9.71	41.02 2.46 -9.22	41.64 2.50 -9.38	60.54 2.78 -22.12	62.40 2.93 -21.47	70.03 3.14 -24.48	72.55 2.79 -28.08	74.40 3.03 -26.76	77.37 3.10 -29.29	82.75 3.24 -33.27	93.78 3.56 -43.98	113.81 4.01 -60.89	117.63 4.74 -55.03	92.53 3.47 -45.10	80.60 3.67 -25.99	72.81 2.59 -34.28	66.37 2.12 -34.75	47.89 2.52 -13.90	63.54 2.73 -28.72
ELLENBURG_WT_PWR 323604	29.28 -0.27 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.83 -0.31 0.00	30.41 -0.40 0.00	28.96 -0.38 0.00	29.49 -0.27 0.00	35.57 -0.07 0.00	37.93 -0.08 0.00	42.28 -0.13 0.00	41.51 -0.17 0.00	44.44 -0.18 0.00	44.71 -0.27 0.00	46.11 -0.14 0.00	46.10 -0.14 0.00	48.51 -0.39 0.00	57.39 -0.46 0.00	43.79 -0.18 0.00	50.94 0.00 0.00	35.61 -0.32 0.00	29.20 -0.29 0.00	31.22 -0.25 0.00	31.70 -0.38 0.00
ELM_ST_23_KV_LD_REV_LBMP_A 345012	31.93 0.50 -1.88	30.89 0.26 -1.28	30.83 0.03 -0.49	28.53 -0.31 -0.74	28.28 -0.34 -0.47	30.86 -0.18 -0.23	30.16 0.06 -0.76	31.01 -0.12 -1.36	35.50 -0.82 -0.67	37.98 -0.91 -0.89	41.75 -0.89 -0.24	42.26 -0.42 -1.00	45.44 -0.36 -1.19	46.73 -0.13 -1.89	47.62 -0.28 -1.65	49.08 -0.74 -3.58	52.32 -0.93 -4.35	60.14 -1.16 -3.44	46.12 -0.84 -3.00	50.25 -1.02 -0.33	38.30 0.79 -1.57	32.51 0.65 -2.36	33.29 0.25 -1.56	33.09 0.45 -0.55
EMPIRE_CC_1 323656	49.87 1.24 -19.08	43.62 1.26 -13.02	36.73 1.42 -5.00	36.96 1.32 -7.54	34.26 1.35 -4.77	34.64 1.45 -2.38	38.38 1.38 -7.67	38.79 1.34 -7.69	30.51 1.53 6.66	27.18 1.63 12.46	31.36 1.78 12.83	27.77 1.62 15.53	52.94 1.74 -6.59	37.39 1.71 9.29	32.45 1.76 15.55	26.22 1.80 21.82	27.74 2.01 23.18	31.53 2.43 28.75	25.48 1.85 20.33	24.22 2.09 28.81	41.46 1.51 -4.02	31.73 1.24 -1.00	27.21 1.38 5.64	37.78 1.54 -4.15
EMPIRE_CC_2 323658	49.87 1.24 -19.08	43.62 1.26 -13.02	36.73 1.42 -5.00	36.96 1.32 -7.54	34.26 1.35 -4.77	34.64 1.45 -2.38	38.38 1.38 -7.67	38.79 1.34 -7.69	30.51 1.53 6.66	27.18 1.63 12.46	31.36 1.78 12.83	27.77 1.62 15.53	52.94 1.74 -6.59	37.39 1.71 9.29	32.45 1.76 15.55	26.22 1.80 21.82	27.74 2.01 23.18	31.53 2.43 28.75	25.48 1.85 20.33	24.22 2.09 28.81	41.46 1.51 -4.02	31.73 1.24 -1.00	27.21 1.38 5.64	37.78 1.54 -4.15
ENORWICH_115KV_TB1 80156	37.01 2.63 -4.83	35.22 2.58 -3.29	33.94 2.36 -1.27	32.11 2.11 -1.91	31.46 2.11 -1.21	33.82 2.40 -0.60	33.35 2.05 -1.96	35.51 2.23 -3.51	39.77 2.39 -1.74	43.10 2.81 -2.29	46.32 3.31 -0.61	47.97 3.71 -2.58	51.60 3.93 -3.06	53.67 3.82 -4.88	54.31 3.79 -4.27	59.18 3.70 -9.24	63.96 3.86 -11.19	71.05 4.34 -8.86	55.11 3.43 -7.72	55.87 4.08 -0.85	43.29 3.31 -4.05	38.21 2.62 -6.09	38.08 2.58 -4.03	36.01 2.50 -1.42



ERIE_ST__34_KV_TB1-2 80199	32.36 0.86 -1.96	31.30 0.62 -1.34	31.16 0.33 -0.51	28.84 -0.03 -0.77	28.61 -0.03 -0.49	31.18 0.12 -0.24	30.48 0.35 -0.79	31.45 0.27 -1.42	36.02 -0.32 -0.70	38.55 -0.38 -0.93	42.40 -0.25 -0.25	42.97 0.25 -1.04	46.21 0.36 -1.24	47.62 0.67 -1.97	48.53 0.55 -1.73	50.07 0.09 -3.74	53.39 -0.05 -4.53	61.21 -0.23 -3.59	47.00 -0.09 -3.13	51.03 -0.25 -0.35	38.83 1.26 -1.64	32.96 1.00 -2.47	33.70 0.60 -1.63	33.43 0.77 -0.57
ERIE_WT_PWR 323693	32.19 0.71 -1.93	31.10 0.44 -1.32	31.03 0.21 -0.51	28.69 -0.17 -0.76	28.40 -0.23 -0.48	31.05 0.00 -0.24	30.33 0.21 -0.78	31.25 0.09 -1.40	35.76 -0.57 -0.69	38.27 -0.65 -0.91	42.06 -0.59 -0.24	42.58 -0.12 -1.03	45.79 -0.04 -1.22	47.19 0.27 -1.94	48.09 0.14 -1.70	49.46 -0.46 -3.68	52.93 -0.44 -4.46	60.75 -0.64 -3.53	46.56 -0.48 -3.08	50.67 -0.61 -0.34	38.59 1.04 -1.61	32.78 0.86 -2.43	33.48 0.41 -1.61	33.33 0.67 -0.56
ESPRGFLD_115KV_TB1 80157	59.58 2.66 -27.37	50.60 2.58 -18.67	40.03 2.55 -7.17	41.25 2.33 -10.82	37.35 2.36 -6.84	36.94 2.71 -3.42	43.06 2.46 -11.26	52.48 2.56 -20.15	48.58 2.96 -9.98	54.22 3.08 -13.14	49.50 3.60 -3.48	60.54 3.79 -15.06	68.20 3.97 -19.62	77.70 3.96 -28.77	74.97 3.79 -24.93	103.93 3.75 -53.95	117.25 4.01 -64.33	114.28 4.80 -51.62	92.57 3.69 -44.91	60.12 4.28 -4.90	62.47 3.31 -23.23	67.07 2.65 -34.93	57.22 2.64 -23.11	42.84 2.63 -8.12
ETNA_115_KV_TB1_REV_LBMP_C 345029	33.27 0.95 -2.78	32.15 0.91 -1.89	31.83 0.79 -0.73	29.84 0.65 -1.10	29.48 0.65 -0.69	31.96 0.80 -0.35	31.20 0.73 -1.13	32.55 0.77 -2.01	37.32 0.68 -1.00	40.08 0.76 -1.31	43.69 0.93 -0.35	44.28 1.13 -1.48	47.53 1.16 -1.76	49.03 1.26 -2.80	49.85 1.16 -2.45	52.65 1.11 -5.30	56.55 1.22 -6.42	64.32 1.39 -5.08	49.49 1.10 -4.43	52.70 1.27 -0.49	39.51 1.26 -2.32	33.99 1.00 -3.49	34.69 0.91 -2.31	33.77 0.87 -0.81
ETNA____115KV_TB2 80207	33.27 0.95 -2.78	32.15 0.91 -1.89	31.83 0.79 -0.73	29.84 0.65 -1.10	29.48 0.65 -0.69	31.96 0.80 -0.35	31.20 0.73 -1.13	32.55 0.77 -2.01	37.32 0.68 -1.00	40.08 0.76 -1.31	43.69 0.93 -0.35	44.28 1.13 -1.48	47.53 1.16 -1.76	49.03 1.26 -2.80	49.85 1.16 -2.45	52.65 1.11 -5.30	56.55 1.22 -6.42	64.32 1.39 -5.08	49.49 1.10 -4.43	52.70 1.27 -0.49	39.51 1.26 -2.32	33.99 1.00 -3.49	34.69 0.91 -2.31	33.77 0.87 -0.81
EUCLID____115KV_TB2 356179	29.28 -0.27 0.00	29.05 -0.29 0.00	29.92 -0.39 0.00	27.67 -0.42 0.00	27.72 -0.42 0.00	30.38 -0.43 0.00	28.96 -0.38 0.00	29.40 -0.36 0.00	35.11 -0.53 0.00	37.47 -0.53 0.00	41.86 -0.55 0.00	41.26 -0.42 0.00	44.21 -0.40 0.00	44.66 -0.31 0.00	45.78 -0.46 0.00	45.73 -0.51 0.00	48.32 -0.59 0.00	57.10 -0.75 0.00	43.35 -0.62 0.00	50.23 -0.71 0.00	35.68 -0.25 0.00	29.29 -0.21 0.00	31.12 -0.35 0.00	31.70 -0.39 0.00
E_CANADA_CAP_HY 24051	67.14 3.54 -34.05	56.04 3.46 -23.23	42.66 3.42 -8.92	44.67 3.12 -13.46	39.78 3.12 -8.51	38.61 3.54 -4.26	46.64 3.29 -14.02	58.19 3.33 -25.09	51.88 3.82 -12.43	58.23 3.88 -16.35	51.24 4.49 -4.33	65.16 4.71 -18.77	74.20 5.04 -24.55	85.92 5.08 -35.86	82.12 4.81 -31.07	118.23 4.76 -67.23	134.10 5.09 -80.11	128.43 6.25 -64.32	104.75 4.84 -55.96	62.65 5.60 -6.10	69.13 4.27 -28.93	76.49 3.51 -43.49	63.77 3.52 -28.77	45.76 3.56 -10.11
E_CANADA_MHWK_HY 24050	29.22 -0.32 0.00	29.02 -0.32 0.00	29.98 -0.33 0.00	27.78 -0.31 0.00	27.83 -0.31 0.00	30.47 -0.34 0.00	28.99 -0.35 0.00	29.44 -0.33 0.00	35.28 -0.36 0.00	37.85 -0.15 0.00	42.28 -0.13 0.00	41.60 -0.08 0.00	44.52 -0.09 0.00	44.75 -0.22 0.00	45.87 -0.37 0.00	45.82 -0.42 0.00	48.51 -0.39 0.00	56.99 -0.87 0.00	43.30 -0.66 0.00	50.18 -0.76 0.00	35.40 -0.54 0.00	29.11 -0.38 0.00	31.03 -0.44 0.00	31.67 -0.42 0.00
E_FISHKILL____LBMP 23776	43.50 1.33 -12.62	39.36 1.41 -8.61	35.25 1.64 -3.31	34.63 1.55 -4.99	32.87 1.58 -3.15	34.05 1.66 -1.58	36.17 1.73 -5.11	40.63 1.73 -9.14	42.09 1.92 -4.53	45.98 2.01 -5.96	46.28 2.29 -1.58	50.44 1.96 -6.80	55.39 2.14 -8.64	60.13 2.20 -12.95	59.76 2.27 -11.25	73.13 2.54 -24.35	80.95 2.89 -29.16	84.64 3.47 -23.31	66.76 2.51 -20.29	55.76 2.60 -2.22	48.30 1.83 -10.54	46.87 1.53 -15.84	43.71 1.76 -10.48	37.70 1.93 -3.68
FALCON____SEABRD_CC1 323796	29.61 0.06 0.00	29.37 0.03 0.00	30.19 -0.12 0.00	28.01 -0.08 0.00	28.12 -0.03 0.00	30.72 -0.09 0.00	29.28 -0.06 0.00	29.82 0.06 0.00	35.96 0.32 0.00	38.34 0.34 0.00	42.71 0.30 0.00	41.97 0.29 0.00	44.88 0.27 0.00	45.20 0.23 0.00	46.61 0.37 0.00	46.61 0.37 0.00	49.01 0.10 0.00	57.97 0.12 0.00	44.23 0.27 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.06 -0.03 0.00
FALCON____SEABRD_CC2 323797	29.61 0.06 0.00	29.37 0.03 0.00	30.19 -0.12 0.00	28.01 -0.08 0.00	28.12 -0.03 0.00	30.72 -0.09 0.00	29.28 -0.06 0.00	29.82 0.06 0.00	35.96 0.32 0.00	38.34 0.34 0.00	42.71 0.30 0.00	41.97 0.29 0.00	44.88 0.27 0.00	45.20 0.23 0.00	46.61 0.37 0.00	46.61 0.37 0.00	49.01 0.10 0.00	57.97 0.12 0.00	44.23 0.27 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.06 -0.03 0.00
FAR ROCKAWAY____4 23548	66.49 2.16 -34.79	53.51 2.23 -21.93	50.80 2.52 -17.98	43.05 2.42 -12.54	41.44 2.45 -10.85	43.14 2.62 -9.71	41.23 2.67 -9.22	41.66 2.68 -9.22	60.64 2.89 -22.11	62.59 3.12 -21.47	70.32 3.44 -24.48	72.89 3.13 -28.08	74.76 3.39 -26.76	77.86 3.60 -29.29	83.26 3.75 -33.27	94.33 4.12 -43.98	114.44 4.65 -60.89	118.50 5.61 -55.03	93.10 4.04 -45.10	81.16 4.23 -25.99	73.16 2.95 -34.28	66.60 2.36 -34.75	48.11 2.74 -13.90	63.70 2.92 -28.69
FARRAGUT_138_KV_32071_REV_LBMP_J 345003	43.26 1.42 -12.30	39.26 1.53 -8.39	35.41 1.88 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.24 2.43 -5.80	46.62 2.67 -1.54	50.64 2.33 -6.62	55.52 2.50 -8.41	60.24 2.65 -12.61	59.93 2.73 -10.96	73.10 3.14 -23.72	80.94 3.62 -28.41	84.90 4.34 -22.71	66.80 3.08 -19.77	56.21 3.11 -2.17	48.32 2.12 -10.27	46.67 1.74 -15.43	43.73 2.05 -10.21	37.92 2.25 -3.59
FARRAGUT_138_KV_38B01_REV_LBMP_J 345016	43.26 1.42 -12.30	39.26 1.53 -8.39	35.44 1.91 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.20 2.39 -5.80	46.62 2.67 -1.54	50.64 2.33 -6.62	55.52 2.50 -8.41	60.24 2.65 -12.61	59.93 2.73 -10.96	73.10 3.14 -23.72	80.94 3.62 -28.41	84.90 4.34 -22.71	66.80 3.08 -19.77	56.21 3.11 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.76 2.08 -10.21	37.95 2.28 -3.59
FARRAGUT_138_KV_38M12_REV_LBMP_J 345017	43.23 1.39 -12.30	39.26 1.53 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.72 2.05 -8.90	42.26 2.21 -4.41	46.20 2.39 -5.80	46.62 2.67 -1.54	50.59 2.29 -6.62	55.47 2.45 -8.41	60.19 2.61 -12.61	59.89 2.68 -10.96	73.05 3.10 -23.72	80.89 3.57 -28.41	84.85 4.28 -22.71	66.76 3.03 -19.77	56.16 3.06 -2.17	48.28 2.08 -10.27	46.64 1.71 -15.43	43.70 2.01 -10.21	37.92 2.25 -3.59



FARRAGUT___LBMP 323566	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.67 1.71 -4.86	32.99 1.77 -3.07	34.19 1.85 -1.54	36.31 1.99 -4.98	40.66 1.99 -8.90	42.23 2.17 -4.41	46.16 2.36 -5.80	46.54 2.59 -1.54	50.55 2.25 -6.62	55.43 2.41 -8.41	60.10 2.52 -12.61	59.84 2.64 -10.96	73.01 3.05 -23.72	80.84 3.52 -28.41	84.79 4.22 -22.71	66.72 2.99 -19.77	56.11 3.01 -2.17	48.28 2.08 -10.27	46.61 1.68 -15.43	43.70 2.01 -10.21	37.89 2.21 -3.59
FENNER___WINDPWR 24204	31.61 0.77 -1.30	30.99 0.76 -0.89	31.29 0.64 -0.34	29.17 0.56 -0.51	29.00 0.53 -0.32	31.62 0.65 -0.16	30.39 0.53 -0.53	31.33 0.63 -0.94	36.82 0.71 -0.47	39.49 0.87 -0.61	43.63 1.06 -0.16	43.62 1.25 -0.69	46.68 1.25 -0.82	47.54 1.26 -1.31	48.59 1.20 -1.14	49.82 1.11 -2.48	53.13 1.22 -3.00	61.56 1.33 -2.38	46.96 0.92 -2.07	52.24 1.07 -0.23	37.95 0.93 -1.09	31.83 0.71 -1.63	33.21 0.66 -1.08	33.08 0.61 -0.38
FIBERTEK___ENERGY 23856	29.67 0.12 0.00	29.43 0.09 0.00	30.28 -0.03 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.78 -0.03 0.00	29.31 -0.03 0.00	29.79 0.03 0.00	35.53 -0.11 0.00	38.00 0.00 0.00	42.45 0.04 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.29 0.31 0.00	46.43 0.18 0.00	46.42 0.18 0.00	49.05 0.15 0.00	57.85 0.00 0.00	43.92 -0.04 0.00	50.84 -0.10 0.00	36.15 0.22 0.00	29.64 0.15 0.00	31.53 0.06 0.00	32.12 0.03 0.00
FITZPATRICK____ 23598	28.78 -0.77 0.00	28.58 -0.76 0.00	29.46 -0.85 0.00	27.25 -0.84 0.00	27.30 -0.84 0.00	29.91 -0.89 0.00	28.52 -0.82 0.00	28.96 -0.80 0.00	34.57 -1.07 0.00	36.86 -1.14 0.00	41.18 -1.23 0.00	40.56 -1.12 0.00	43.41 -1.20 0.00	43.80 -1.17 0.00	44.95 -1.29 0.00	44.89 -1.34 0.00	47.49 -1.42 0.00	56.12 -1.73 0.00	42.64 -1.32 0.00	49.41 -1.53 0.00	35.07 -0.86 0.00	28.79 -0.71 0.00	30.62 -0.85 0.00	31.22 -0.86 0.00
FLOWRFLD_69_KV_BK1 356044	67.35 3.01 -34.79	54.45 3.17 -21.93	51.89 3.58 -18.00	44.00 3.34 -12.56	42.39 3.38 -10.87	44.13 3.60 -9.72	42.31 3.73 -9.25	43.78 3.75 -10.27	62.03 4.24 -22.14	63.91 4.41 -21.50	71.87 4.67 -24.79	95.02 4.13 -49.21	97.24 4.28 -48.34	143.44 4.32 -94.15	198.66 4.44 -147.98	193.14 4.67 -142.23	254.02 5.18 -199.93	306.42 6.25 -242.32	252.93 4.62 -204.35	200.44 5.15 -144.35	130.11 3.74 -90.44	120.87 3.16 -88.22	82.45 3.75 -47.23	81.47 4.04 -45.34
FORGEBRK_115_KV_TR1_2_REV_LBMP_G 345010	43.77 1.77 -12.45	39.66 1.82 -8.49	35.60 2.03 -3.26	34.87 1.85 -4.92	33.08 1.83 -3.11	34.37 2.00 -1.56	36.40 2.02 -5.04	40.82 1.99 -9.07	42.41 2.28 -4.49	46.35 2.43 -5.91	46.78 2.80 -1.57	50.88 2.54 -6.66	55.11 2.59 -7.91	60.21 2.65 -12.59	60.08 2.82 -11.02	73.14 3.05 -23.85	81.05 3.42 -28.72	84.70 4.11 -22.74	66.76 2.99 -19.81	56.24 3.11 -2.19	48.41 2.08 -10.39	46.85 1.74 -15.62	43.79 1.98 -10.34	37.90 2.18 -3.63
FORT ORANGE____ 23900	56.55 0.92 -26.09	48.08 0.94 -17.80	38.21 1.06 -6.84	39.39 0.98 -10.31	35.62 0.96 -6.52	35.15 1.08 -3.26	40.68 0.97 -10.38	44.87 0.92 -14.18	36.11 1.07 0.60	35.63 1.10 3.47	35.78 1.23 7.86	34.29 1.13 8.52	30.62 1.16 15.15	40.61 1.17 5.53	40.55 1.20 6.90	41.38 1.20 6.06	59.10 1.32 -8.87	49.80 1.68 9.73	41.06 1.28 4.17	33.54 1.48 18.88	49.80 1.04 -12.82	46.01 0.92 -15.61	38.24 1.04 -5.74	39.62 1.06 -6.48
FORT_DRUM_COGEN 23780	30.17 0.62 0.00	29.93 0.59 0.00	30.61 0.30 0.00	28.37 0.28 0.00	28.31 0.17 0.00	30.93 0.12 0.00	29.16 -0.18 0.00	29.58 -0.18 0.00	35.28 -0.36 0.00	37.77 -0.23 0.00	42.20 -0.21 0.00	41.64 -0.04 0.00	44.43 -0.18 0.00	44.70 -0.27 0.00	45.92 -0.32 0.00	45.96 -0.28 0.00	48.66 -0.24 0.00	57.68 -0.17 0.00	43.79 -0.18 0.00	51.04 0.10 0.00	36.19 0.25 0.00	29.64 0.15 0.00	31.57 0.09 0.00	31.99 -0.10 0.00
FPL_FAR_ROCK_GT1 24212	66.49 2.16 -34.79	53.51 2.23 -21.93	50.80 2.51 -17.98	43.05 2.42 -12.54	41.44 2.45 -10.85	43.13 2.62 -9.71	41.23 2.67 -9.22	41.66 2.68 -9.22	60.64 2.89 -22.11	62.59 3.12 -21.47	70.32 3.43 -24.48	72.89 3.13 -28.08	74.81 3.44 -26.76	77.86 3.60 -29.29	83.26 3.74 -33.27	94.33 4.11 -43.98	114.45 4.65 -60.89	118.50 5.61 -55.03	93.10 4.04 -45.10	81.15 4.23 -25.99	73.17 2.95 -34.28	66.61 2.36 -34.75	48.14 2.77 -13.90	63.64 2.85 -28.69
FPL_FAR_ROCK_GT2 23815	66.49 2.16 -34.79	53.51 2.23 -21.93	50.80 2.51 -17.98	43.05 2.42 -12.54	41.44 2.45 -10.85	43.13 2.62 -9.71	41.23 2.67 -9.22	41.66 2.68 -9.22	60.64 2.89 -22.11	62.59 3.12 -21.47	70.32 3.43 -24.48	72.89 3.13 -28.08	74.81 3.44 -26.76	77.86 3.60 -29.29	83.26 3.74 -33.27	94.33 4.11 -43.98	114.45 4.65 -60.89	118.50 5.61 -55.03	93.10 4.04 -45.10	81.15 4.23 -25.99	73.17 2.95 -34.28	66.61 2.36 -34.75	48.14 2.77 -13.90	63.64 2.85 -28.69
FRANKLIN_FALL_HYD 24054	29.37 -0.18 0.00	29.17 -0.18 0.00	29.98 -0.33 0.00	27.81 -0.28 0.00	27.83 -0.31 0.00	30.41 -0.40 0.00	28.96 -0.38 0.00	29.46 -0.30 0.00	35.53 -0.11 0.00	37.93 -0.08 0.00	42.20 -0.21 0.00	41.51 -0.17 0.00	44.39 -0.22 0.00	44.66 -0.31 0.00	46.11 -0.14 0.00	46.10 -0.14 0.00	48.42 -0.49 0.00	57.22 -0.64 0.00	43.65 -0.31 0.00	50.94 0.00 0.00	35.54 -0.40 0.00	29.14 -0.35 0.00	31.22 -0.25 0.00	31.67 -0.42 0.00
FREEPORT_EQUS_GT1 23764	66.58 2.24 -34.79	53.60 2.32 -21.93	50.90 2.61 -17.98	43.05 2.42 -12.54	41.47 2.48 -10.85	43.14 2.62 -9.71	41.26 2.70 -9.23	42.25 2.74 -9.75	60.83 3.07 -22.12	62.75 3.27 -21.48	70.24 3.35 -24.48	72.76 3.00 -28.08	74.67 3.30 -26.76	77.68 3.42 -29.29	83.08 3.56 -33.27	94.14 3.93 -43.98	114.20 4.40 -60.89	118.10 5.21 -55.03	92.88 3.82 -45.10	81.00 4.08 -25.99	73.09 2.88 -34.28	66.69 2.45 -34.75	48.23 2.86 -13.90	63.85 2.95 -28.82
FREEPORT___CT2 23818	66.58 2.24 -34.79	53.60 2.32 -21.93	50.90 2.61 -17.98	43.05 2.42 -12.54	41.47 2.48 -10.85	43.14 2.62 -9.71	41.26 2.70 -9.23	42.25 2.74 -9.75	60.83 3.07 -22.12	62.75 3.27 -21.48	70.24 3.35 -24.48	72.76 3.00 -28.08	74.67 3.30 -26.76	77.68 3.42 -29.29	83.08 3.56 -33.27	94.14 3.93 -43.98	114.20 4.40 -60.89	118.10 5.21 -55.03	92.88 3.82 -45.10	81.00 4.08 -25.99	73.09 2.88 -34.28	66.69 2.45 -34.75	48.23 2.86 -13.90	63.85 2.95 -28.82
FRESHKLS_33_KV_LOAD 356253	34.98 1.15 -4.28	34.98 1.32 -4.31	34.98 1.76 -2.91	34.58 1.63 -4.85	32.93 1.72 -3.07	34.00 1.66 -1.53	34.98 1.88 -3.76	34.98 1.88 -3.34	35.00 1.89 2.53	35.07 1.98 4.91	36.71 2.25 7.95	36.67 1.92 6.93	39.46 2.19 7.34	39.94 2.34 7.37	39.77 2.45 8.92	48.65 2.96 0.54	59.11 3.42 -6.78	53.93 4.28 8.21	41.90 2.95 5.01	38.24 3.11 15.81	37.00 1.98 0.91	36.70 1.56 -5.64	36.91 1.95 -3.49	35.83 2.28 -1.46
FULTON COGEN____ 23766	29.19 -0.35 0.00	28.96 -0.38 0.00	29.82 -0.48 0.00	27.59 -0.51 0.00	27.64 -0.51 0.00	30.32 -0.49 0.00	28.87 -0.47 0.00	29.32 -0.45 0.00	34.93 -0.71 0.00	37.32 -0.68 0.00	41.69 -0.72 0.00	41.05 -0.63 0.00	43.99 -0.62 0.00	44.43 -0.54 0.00	45.55 -0.69 0.00	45.54 -0.69 0.00	48.13 -0.78 0.00	56.87 -0.98 0.00	43.17 -0.79 0.00	50.02 -0.92 0.00	35.54 -0.40 0.00	29.20 -0.29 0.00	31.06 -0.41 0.00	31.64 -0.45 0.00



FULTON___LFGE 323630	70.92 4.46 -36.91	58.86 4.34 -25.18	44.16 4.18 -9.67	46.47 3.79 -14.59	41.14 3.77 -9.22	39.67 4.25 -4.61	48.50 3.96 -15.20	60.83 3.87 -27.20	53.42 4.31 -13.47	60.75 5.02 -17.73	52.88 5.77 -4.70	68.33 6.29 -20.36	78.05 6.78 -26.66	90.70 6.83 -38.90	86.64 6.70 -33.69	125.89 6.75 -72.90	143.04 7.29 -86.85	135.01 7.41 -69.75	110.44 5.80 -60.68	64.39 6.83 -6.62	72.61 5.32 -31.36	80.91 4.28 -47.15	66.91 4.25 -31.19	47.32 4.27 -10.96
G.F.CEMENT___DRP 24184	71.60 2.78 -39.28	58.84 2.70 -26.79	43.27 2.67 -10.29	46.04 2.42 -15.53	40.35 2.39 -9.81	38.37 2.65 -4.91	48.34 2.52 -16.48	65.35 2.56 -33.03	53.24 2.99 -14.61	60.46 3.23 -19.23	60.06 3.65 -14.00	83.68 3.79 -38.21	89.57 4.06 -40.89	111.42 4.23 -62.22	107.88 4.30 -57.34	167.43 4.12 -117.08	186.94 4.16 -133.87	178.60 4.63 -116.12	145.72 3.74 -98.02	81.18 4.23 -26.01	80.01 3.16 -40.91	96.73 2.77 -64.46	80.62 2.80 -46.34	47.61 2.82 -12.69
GARDENVILLE___LBMP 24039	32.06 0.59 -1.92	31.01 0.35 -1.31	30.93 0.12 -0.50	28.60 -0.25 -0.76	28.37 -0.25 -0.48	30.96 -0.09 -0.24	30.23 0.12 -0.78	31.13 -0.03 -1.39	35.62 -0.71 -0.69	38.11 -0.80 -0.91	41.89 -0.76 -0.24	42.41 -0.29 -1.02	45.61 -0.22 -1.22	46.95 0.04 -1.93	47.85 -0.09 -1.69	49.30 -0.60 -3.67	52.62 -0.73 -4.45	60.39 -0.98 -3.52	46.37 -0.66 -3.07	50.47 -0.82 -0.34	38.44 0.90 -1.61	32.65 0.74 -2.42	33.42 0.35 -1.60	33.20 0.55 -0.56
GARDNVLA_35_KV_LD 355827	32.22 0.74 -1.93	31.16 0.50 -1.32	31.06 0.24 -0.51	28.72 -0.14 -0.76	28.49 -0.14 -0.48	31.08 0.03 -0.24	30.36 0.23 -0.78	31.28 0.12 -1.40	35.80 -0.53 -0.69	38.31 -0.61 -0.91	42.14 -0.51 -0.24	42.67 -0.04 -1.03	45.93 0.09 -1.22	47.24 0.31 -1.95	48.13 0.18 -1.70	49.65 -0.28 -3.69	52.99 -0.39 -4.48	60.76 -0.64 -3.54	46.65 -0.40 -3.09	50.72 -0.56 -0.34	38.67 1.11 -1.62	32.84 0.91 -2.43	33.62 0.53 -1.61	33.33 0.67 -0.57
GELCKHM___115KV_LOAD 80723	29.43 -0.12 0.00	29.20 -0.15 0.00	30.07 -0.24 0.00	27.78 -0.31 0.00	27.83 -0.31 0.00	30.53 -0.28 0.00	29.07 -0.26 0.00	29.55 -0.21 0.00	35.28 -0.36 0.00	37.66 -0.34 0.00	42.07 -0.34 0.00	41.47 -0.21 0.00	44.43 -0.18 0.00	44.88 -0.09 0.00	46.01 -0.23 0.00	45.96 -0.28 0.00	48.57 -0.34 0.00	57.39 -0.46 0.00	43.57 -0.40 0.00	50.43 -0.51 0.00	35.86 -0.07 0.00	29.41 -0.09 0.00	31.28 -0.19 0.00	31.86 -0.22 0.00
GENERAL___MILLS 23808	32.16 0.68 -1.93	31.10 0.44 -1.32	31.00 0.18 -0.51	28.69 -0.17 -0.76	28.43 -0.20 -0.48	31.02 -0.03 -0.24	30.33 0.21 -0.78	31.22 0.06 -1.40	35.73 -0.61 -0.69	38.23 -0.68 -0.91	42.02 -0.64 -0.24	42.58 -0.13 -1.03	45.79 -0.04 -1.22	47.10 0.18 -1.94	47.99 0.05 -1.70	49.50 -0.42 -3.68	52.84 -0.54 -4.47	60.58 -0.81 -3.54	46.52 -0.53 -3.08	50.57 -0.71 -0.34	38.59 1.04 -1.62	32.78 0.86 -2.43	33.52 0.44 -1.61	33.30 0.64 -0.56
GE_PLASTICS___DRP 24183	54.27 1.00 -23.71	46.55 1.03 -16.18	37.67 1.15 -6.21	38.56 1.10 -9.37	35.17 1.10 -5.93	34.97 1.20 -2.96	39.90 1.09 -9.48	44.74 1.07 -13.91	45.26 1.21 -8.41	50.32 1.25 -11.06	38.70 1.10 4.81	39.83 0.96 2.80	40.25 0.98 5.35	48.32 0.99 -2.35	47.67 1.02 -0.41	54.32 1.02 -7.07	69.03 1.12 -19.00	63.22 1.45 -3.92	51.43 1.10 -6.37	39.98 1.27 12.24	50.68 1.19 -13.56	48.28 0.97 -17.82	41.15 1.10 -8.58	39.41 1.19 -6.14
GILBOA___1 23756	41.74 0.95 -11.25	37.99 0.97 -7.67	34.44 1.18 -2.95	33.75 1.21 -4.45	32.16 1.21 -2.81	33.54 1.32 -1.41	34.97 1.09 -4.54	39.00 1.10 -8.13	40.88 1.21 -4.03	44.60 1.29 -5.30	45.21 1.40 -1.41	48.90 1.25 -5.97	53.09 1.38 -7.09	57.52 1.26 -11.29	57.33 1.20 -9.88	68.78 1.16 -21.39	76.15 1.32 -25.92	79.94 1.56 -20.52	63.12 1.28 -17.88	54.50 1.58 -1.98	46.53 1.22 -9.38	44.59 1.00 -14.10	41.93 1.13 -9.33	36.62 1.25 -3.28
GILBOA___2 23757	41.74 0.95 -11.25	37.99 0.97 -7.67	34.44 1.18 -2.95	33.75 1.21 -4.45	32.16 1.21 -2.81	33.54 1.32 -1.41	34.97 1.09 -4.54	39.00 1.10 -8.13	40.88 1.21 -4.03	44.60 1.29 -5.30	45.21 1.40 -1.41	48.90 1.25 -5.97	53.09 1.38 -7.09	57.52 1.26 -11.29	57.33 1.20 -9.88	68.78 1.16 -21.39	76.15 1.32 -25.92	79.94 1.56 -20.52	63.12 1.28 -17.88	54.50 1.58 -1.98	46.53 1.22 -9.38	44.59 1.00 -14.10	41.93 1.13 -9.33	36.62 1.25 -3.28
GILBOA___3 23758	41.74 0.95 -11.25	37.99 0.97 -7.67	34.44 1.18 -2.95	33.75 1.21 -4.45	32.16 1.21 -2.81	33.54 1.32 -1.41	34.97 1.09 -4.54	39.00 1.10 -8.13	40.88 1.21 -4.03	44.60 1.29 -5.30	45.21 1.40 -1.41	48.90 1.25 -5.97	53.09 1.38 -7.09	57.52 1.26 -11.29	57.33 1.20 -9.88	68.78 1.16 -21.39	76.15 1.32 -25.92	79.94 1.56 -20.52	63.12 1.28 -17.88	54.50 1.58 -1.98	46.53 1.22 -9.38	44.59 1.00 -14.10	41.93 1.13 -9.33	36.62 1.25 -3.28
GILBOA___4 23759	41.74 0.95 -11.25	37.99 0.97 -7.67	34.44 1.18 -2.95	33.75 1.21 -4.45	32.16 1.21 -2.81	33.54 1.32 -1.41	34.97 1.09 -4.54	39.00 1.10 -8.13	40.88 1.21 -4.03	44.60 1.29 -5.30	45.21 1.40 -1.41	48.90 1.25 -5.97	53.09 1.38 -7.09	57.52 1.26 -11.29	57.33 1.20 -9.88	68.78 1.16 -21.39	76.15 1.32 -25.92	79.94 1.56 -20.52	63.12 1.28 -17.88	54.50 1.58 -1.98	46.53 1.22 -9.38	44.59 1.00 -14.10	41.93 1.13 -9.33	36.62 1.25 -3.28
GILBOA___ 23599	41.74 0.95 -11.25	37.99 0.97 -7.67	34.44 1.18 -2.95	33.75 1.21 -4.45	32.17 1.21 -2.81	33.54 1.32 -1.41	34.97 1.09 -4.54	39.00 1.10 -8.14	40.88 1.21 -4.03	44.60 1.29 -5.30	45.22 1.40 -1.41	48.91 1.25 -5.98	53.05 1.34 -7.10	57.53 1.26 -11.29	57.33 1.20 -9.88	68.79 1.16 -21.40	76.14 1.32 -25.92	79.94 1.56 -20.52	63.12 1.27 -17.88	54.50 1.58 -1.98	46.53 1.22 -9.38	44.59 1.00 -14.10	41.93 1.13 -9.33	36.59 1.22 -3.28
GINNA___ 23603	29.74 -1.09 -1.28	29.07 -1.14 -0.87	29.25 -1.39 -0.34	27.17 -1.43 -0.51	26.89 -1.58 -0.32	29.40 -1.57 -0.16	28.54 -1.32 -0.52	29.41 -1.28 -0.93	34.25 -1.85 -0.46	36.71 -1.90 -0.61	40.58 -1.99 -0.16	40.65 -1.71 -0.68	43.59 -1.83 -0.81	44.56 -1.71 -1.29	45.43 -1.94 -1.13	46.46 -2.22 -2.45	49.43 -2.44 -2.96	57.25 -2.95 -2.35	43.72 -2.29 -2.04	48.67 -2.49 -0.23	35.96 -1.04 -1.07	30.22 -0.88 -1.61	31.34 -1.20 -1.07	31.18 -1.28 -0.37
GLEN PARK___ 23778	30.35 0.80 0.00	30.11 0.76 0.00	30.77 0.46 0.00	28.51 0.42 0.00	28.45 0.31 0.00	31.09 0.28 0.00	29.28 -0.06 0.00	29.70 -0.06 0.00	35.39 -0.25 0.00	37.93 -0.08 0.00	42.41 0.00 0.00	41.80 0.13 0.00	44.66 0.04 0.00	44.88 -0.09 0.00	46.11 -0.14 0.00	46.19 -0.05 0.00	48.91 0.00 0.00	57.97 0.12 0.00	43.96 0.00 0.00	51.35 0.41 0.00	36.44 0.50 0.00	29.85 0.36 0.00	31.75 0.28 0.00	32.15 0.06 0.00
GLENDALE_27_KV_LOAD 356172	43.26 1.42 -12.29	39.35 1.61 -8.39	35.56 2.03 -3.22	34.84 1.88 -4.86	33.16 1.94 -3.07	34.32 1.97 -1.54	36.48 2.17 -4.98	40.81 2.14 -8.91	42.30 2.25 -4.41	46.19 2.39 -5.80	46.61 2.67 -1.53	50.59 2.29 -6.61	55.51 2.50 -8.40	57.21 2.61 -9.62	55.09 2.73 -6.12	64.92 3.19 -15.49	79.56 3.62 -27.04	73.17 4.45 -10.86	57.69 3.08 -10.65	51.17 3.21 2.98	48.35 2.16 -10.26	46.69 1.77 -15.42	43.79 2.11 -10.21	38.15 2.47 -3.59



GLENWOOD_IC_1_G5 23712	66.11 1.77 -34.79	53.13 1.85 -21.93	50.41 2.12 -17.98	42.63 1.99 -12.54	41.02 2.03 -10.85	42.68 2.16 -9.71	40.82 2.26 -9.22	41.59 2.29 -9.54	60.32 2.57 -22.12	62.25 2.77 -21.47	69.98 3.10 -24.48	72.55 2.79 -28.08	74.40 3.03 -26.76	77.41 3.15 -29.29	82.80 3.28 -33.27	93.82 3.61 -43.98	113.86 4.06 -60.89	117.75 4.86 -55.03	92.58 3.52 -45.10	80.55 3.62 -25.99	72.73 2.52 -34.28	66.31 2.06 -34.75	47.73 2.36 -13.90	63.43 2.53 -28.81
GLENWOOD_IC_2_G1 23688	66.05 1.71 -34.79	53.07 1.79 -21.93	50.38 2.09 -17.98	42.60 1.97 -12.54	40.99 2.00 -10.85	42.64 2.12 -9.71	40.76 2.20 -9.22	41.21 2.23 -9.22	60.25 2.49 -22.11	62.13 2.66 -21.47	69.86 2.97 -24.48	72.39 2.63 -28.08	74.27 2.90 -26.76	77.23 2.97 -29.29	82.61 3.10 -33.27	93.64 3.42 -43.98	113.62 3.82 -60.89	117.52 4.63 -55.03	92.40 3.34 -45.10	80.39 3.47 -25.99	72.66 2.44 -34.28	66.22 1.98 -34.75	47.67 2.30 -13.90	63.19 2.41 -28.69
GLENWOOD_IC_3_G1 23689	66.05 1.71 -34.79	53.07 1.79 -21.93	50.38 2.09 -17.98	42.60 1.97 -12.54	40.99 2.00 -10.85	42.64 2.12 -9.71	40.76 2.20 -9.22	41.21 2.23 -9.22	60.25 2.49 -22.11	62.13 2.66 -21.47	69.86 2.97 -24.48	72.39 2.63 -28.08	74.27 2.90 -26.76	77.23 2.97 -29.29	82.61 3.10 -33.27	93.64 3.42 -43.98	113.62 3.82 -60.89	117.52 4.63 -55.03	92.40 3.34 -45.10	80.39 3.47 -25.99	72.66 2.44 -34.28	66.22 1.98 -34.75	47.67 2.30 -13.90	63.19 2.41 -28.69
GLENWOOD___4 23550	66.17 1.83 -34.79	53.18 1.91 -21.93	50.50 2.21 -17.98	42.68 2.05 -12.54	41.10 2.11 -10.85	42.74 2.22 -9.71	40.88 2.32 -9.22	41.68 2.38 -9.54	60.43 2.67 -22.12	62.33 2.85 -21.47	70.11 3.22 -24.48	72.64 2.88 -28.08	74.54 3.17 -26.76	77.55 3.28 -29.29	82.89 3.38 -33.27	93.96 3.75 -43.98	114.00 4.21 -60.89	117.86 4.98 -55.03	92.66 3.60 -45.10	80.70 3.77 -25.99	72.84 2.62 -34.28	66.37 2.12 -34.75	47.79 2.42 -13.90	63.53 2.63 -28.81
GLENWOOD___5 23614	66.17 1.83 -34.79	53.18 1.91 -21.93	50.50 2.21 -17.98	42.68 2.05 -12.54	41.10 2.11 -10.85	42.74 2.22 -9.71	40.88 2.32 -9.22	41.68 2.38 -9.54	60.43 2.67 -22.12	62.33 2.85 -21.47	70.11 3.22 -24.48	72.64 2.88 -28.08	74.54 3.17 -26.76	77.55 3.28 -29.29	82.89 3.38 -33.27	93.96 3.75 -43.98	114.00 4.21 -60.89	117.86 4.98 -55.03	92.66 3.60 -45.10	80.70 3.77 -25.99	72.84 2.62 -34.28	66.37 2.12 -34.75	47.79 2.42 -13.90	63.53 2.63 -28.81
GLOBAL GREEN_PORT_GT1 23814	68.65 4.31 -34.79	55.79 4.52 -21.93	53.34 5.03 -18.00	45.34 4.69 -12.56	43.74 4.73 -10.87	45.61 5.08 -9.72	43.77 5.19 -9.24	45.24 5.21 -10.27	63.84 6.06 -22.14	65.96 6.46 -21.49	74.33 7.21 -24.71	92.65 7.00 -43.98	95.19 7.58 -42.99	130.70 7.65 -78.08	173.68 7.86 -119.57	172.22 8.09 -117.89	223.10 8.71 -165.49	240.36 10.30 -172.21	220.40 7.78 -168.66	174.74 8.76 -115.03	118.79 6.33 -76.53	109.54 5.07 -74.98	83.80 5.57 -46.76	79.00 5.71 -41.20
GLOBE___DSASP 323697	31.00 -0.30 -1.75	30.04 -0.50 -1.19	30.07 -0.70 -0.46	27.83 -0.96 -0.69	27.57 -1.01 -0.44	30.04 -0.99 -0.22	29.31 -0.73 -0.71	29.87 -1.16 -1.27	34.20 -2.07 -0.63	36.51 -2.32 -0.83	40.13 -2.50 -0.22	40.53 -2.08 -0.93	43.62 -2.10 -1.11	44.71 -2.02 -1.76	45.57 -2.22 -1.54	46.94 -2.64 -3.34	50.02 -2.93 -4.05	57.59 -3.47 -3.21	44.20 -2.55 -2.79	48.35 -2.90 -0.31	36.86 -0.54 -1.47	31.25 -0.44 -2.20	32.08 -0.85 -1.46	32.12 -0.48 -0.51
GOETHSLN___LBMP 323567	35.69 1.15 -4.99	36.83 1.26 -6.22	34.87 1.64 -2.92	34.50 1.55 -4.86	32.82 1.60 -3.07	34.01 1.66 -1.54	36.10 1.79 -4.98	34.90 1.79 -3.35	35.04 1.92 2.52	35.19 2.09 4.90	36.80 2.33 7.94	36.72 1.96 6.92	39.42 2.14 7.33	39.86 2.25 7.36	39.64 2.31 8.92	48.43 2.73 0.53	58.88 3.18 -6.79	53.47 3.82 8.20	41.64 2.68 5.00	37.79 2.65 15.80	36.83 1.80 0.90	36.62 1.47 -5.65	36.74 1.76 -3.51	35.55 1.99 -1.47
GOLAH___69_KV_TB 1_2 80279	31.50 0.59 -1.36	30.77 0.50 -0.93	30.88 0.21 -0.36	28.63 0.00 -0.54	28.40 -0.08 -0.34	31.04 0.06 -0.17	30.12 0.23 -0.55	30.93 0.18 -0.99	35.81 -0.32 -0.49	38.30 -0.34 -0.64	42.28 -0.30 -0.17	42.32 -0.08 -0.73	45.43 -0.04 -0.86	46.48 0.13 -1.37	47.45 0.00 -1.20	48.47 -0.37 -2.60	51.52 -0.54 -3.15	59.48 -0.87 -2.50	45.56 -0.57 -2.18	50.62 -0.56 -0.24	37.69 0.61 -1.14	31.68 0.47 -1.72	32.83 0.22 -1.13	32.78 0.29 -0.40
GOODYEAR_LAKE_HYD 323669	45.66 1.71 -14.40	40.84 1.67 -9.82	35.78 1.70 -3.77	35.36 1.57 -5.69	33.35 1.60 -3.60	34.43 1.82 -1.80	36.85 1.61 -5.90	42.02 1.70 -10.56	42.83 1.96 -5.23	47.01 2.13 -6.88	46.74 2.50 -1.82	52.12 2.58 -7.86	57.32 2.68 -10.03	62.56 2.61 -14.97	61.79 2.54 -13.01	76.88 2.50 -28.15	85.28 2.69 -33.69	87.93 3.12 -26.95	69.83 2.42 -23.45	56.21 2.70 -2.57	50.22 2.12 -12.17	49.50 1.71 -18.30	45.31 1.73 -12.11	38.11 1.76 -4.25
GOUDEY_115_KV_TB6_REV_LBMP_C 345031	34.23 0.62 -4.06	32.67 0.56 -2.77	31.86 0.48 -1.06	30.06 0.37 -1.60	29.52 0.37 -1.01	31.81 0.49 -0.51	31.45 0.47 -1.65	33.18 0.48 -2.95	37.42 0.32 -1.46	40.30 0.38 -1.92	43.43 0.51 -0.51	44.47 0.63 -2.16	47.90 0.71 -2.57	49.87 0.81 -4.09	50.56 0.74 -3.58	54.58 0.60 -7.75	58.93 0.64 -9.39	65.98 0.69 -7.43	50.96 0.53 -6.47	52.27 0.61 -0.72	40.19 0.86 -3.40	35.31 0.71 -5.10	35.45 0.60 -3.38	33.95 0.67 -1.19
GOUDEY___7 23579	34.26 0.65 -4.06	32.70 0.59 -2.77	31.89 0.52 -1.06	30.09 0.39 -1.60	29.55 0.39 -1.01	31.84 0.52 -0.51	31.48 0.50 -1.65	33.21 0.51 -2.95	37.49 0.39 -1.46	40.34 0.42 -1.92	43.47 0.55 -0.51	44.55 0.71 -2.16	47.94 0.76 -2.57	49.96 0.90 -4.09	50.61 0.79 -3.58	54.68 0.69 -7.75	59.03 0.73 -9.39	66.04 0.75 -7.43	51.05 0.62 -6.47	52.32 0.66 -0.72	40.23 0.90 -3.40	35.34 0.74 -5.10	35.48 0.63 -3.38	33.98 0.71 -1.19
GOUDEY___8 23580	34.23 0.62 -4.06	32.67 0.56 -2.77	31.86 0.48 -1.06	30.06 0.37 -1.60	29.52 0.37 -1.01	31.81 0.49 -0.51	31.45 0.47 -1.65	33.18 0.48 -2.95	37.42 0.32 -1.46	40.30 0.38 -1.92	43.43 0.51 -0.51	44.47 0.63 -2.16	47.90 0.71 -2.57	49.87 0.81 -4.09	50.56 0.74 -3.58	54.58 0.60 -7.75	58.93 0.64 -9.39	65.98 0.69 -7.43	50.96 0.53 -6.47	52.27 0.61 -0.72	40.19 0.86 -3.40	35.31 0.71 -5.10	35.45 0.60 -3.38	33.95 0.67 -1.19
GOWANUS_GT1_1 24077	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GOWANUS_GT1_2 24078	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59



GOWANUS_GT1_3 24079	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GOWANUS_GT1_4 24080	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GOWANUS_GT1_5 24084	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GOWANUS_GT1_6 24111	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GOWANUS_GT1_7 24112	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GOWANUS_GT1_8 24113	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GOWANUS_GT2_1 24114	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2



GOWANUS_GT3_2 24123	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
GOWANUS_GT3_3 24124	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
GOWANUS_GT3_4 24125	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
GOWANUS_GT3_5 24126	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
GOWANUS_GT3_6 24127	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
GOWANUS_GT3_7 24128	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
GOWANUS_GT3_8 24129	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2



GREENBSH_115KV_TB3 55895	57.15 0.92 -26.69	48.46 0.91 -18.20	38.33 1.03 -6.99	39.62 0.98 -10.55	35.80 0.99 -6.67	35.22 1.08 -3.34	40.91 0.97 -10.61	45.07 0.95 -14.35	46.11 1.07 -9.40	51.52 1.14 -12.37	35.24 1.23 8.40	33.30 1.08 9.47	29.06 1.16 16.71	39.33 1.12 6.76	39.33 1.16 8.07	39.34 1.20 8.10	57.56 1.27 -7.39	47.52 1.56 11.90	39.33 1.19 5.82	32.29 1.43 20.08	49.83 1.08 -12.82	45.75 0.86 -15.40	37.79 0.98 -5.35	39.74 1.06 -6.59
GREENDGE_115KV_TB5 80291	32.59 0.71 -2.33	31.70 0.76 -1.59	31.47 0.55 -0.61	29.35 0.34 -0.92	29.06 0.34 -0.58	31.66 0.55 -0.29	30.90 0.62 -0.95	32.05 0.60 -1.69	36.51 0.04 -0.84	39.22 0.11 -1.10	42.96 0.25 -0.29	43.51 0.58 -1.24	46.67 0.58 -1.48	48.09 0.76 -2.35	48.90 0.60 -2.06	51.11 0.42 -4.45	54.64 0.34 -5.39	62.46 0.35 -4.26	47.94 0.26 -3.72	51.71 0.36 -0.41	38.82 0.93 -1.95	33.31 0.88 -2.93	33.88 0.47 -1.94	33.22 0.45 -0.68
GREENIDGE___3 23582	32.59 0.71 -2.33	31.70 0.76 -1.59	31.47 0.55 -0.61	29.35 0.34 -0.92	29.06 0.34 -0.58	31.66 0.55 -0.29	30.90 0.62 -0.95	32.05 0.60 -1.69	36.51 0.04 -0.84	39.22 0.11 -1.10	42.96 0.25 -0.29	43.51 0.58 -1.24	46.67 0.58 -1.48	48.09 0.76 -2.35	48.90 0.60 -2.06	51.11 0.42 -4.45	54.64 0.34 -5.39	62.46 0.35 -4.26	47.94 0.26 -3.72	51.71 0.36 -0.41	38.82 0.93 -1.95	33.31 0.88 -2.93	33.88 0.47 -1.94	33.22 0.45 -0.68
GREENIDGE___4 23583	32.62 0.74 -2.33	31.70 0.76 -1.59	31.47 0.55 -0.61	29.35 0.34 -0.92	29.04 0.31 -0.58	31.66 0.56 -0.29	30.90 0.62 -0.95	32.08 0.63 -1.69	36.51 0.04 -0.84	39.22 0.11 -1.10	42.96 0.26 -0.29	43.51 0.58 -1.24	46.63 0.54 -1.48	48.09 0.76 -2.35	48.90 0.60 -2.06	51.06 0.37 -4.45	54.65 0.34 -5.40	62.42 0.29 -4.27	47.90 0.22 -3.72	51.66 0.31 -0.41	38.82 0.93 -1.95	33.31 0.88 -2.93	33.85 0.44 -1.94	33.41 0.64 -0.68
GREENLWN_69_KV_BK 3 55738	66.41 2.07 -34.79	53.45 2.17 -21.93	50.84 2.55 -17.98	43.02 2.39 -12.54	41.47 2.48 -10.85	43.11 2.59 -9.71	41.50 2.93 -9.23	42.91 2.92 -10.23	61.01 3.24 -22.12	62.90 3.42 -21.48	70.57 3.73 -24.43	69.50 3.25 -24.57	71.13 3.35 -23.17	66.86 3.37 -18.51	63.82 3.38 -14.20	77.58 3.70 -27.65	90.84 4.16 -37.78	69.68 5.03 -6.79	36.24 3.65 11.37	61.12 3.87 -6.31	63.79 2.91 -24.95	57.83 2.48 -25.86	39.07 2.90 -4.71	62.21 3.24 -26.88
GREENWD_138_KV_38B11_REV_LBMP_J 345004	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59
GRISSOM___SOLAR 323813	70.92 4.46 -36.91	58.86 4.34 -25.18	44.16 4.18 -9.67	46.47 3.79 -14.59	41.14 3.77 -9.22	39.67 4.25 -4.61	48.50 3.96 -15.20	60.83 3.87 -27.20	53.42 4.31 -13.47	60.75 5.02 -17.73	52.88 5.77 -4.70	68.33 6.29 -20.36	78.05 6.78 -26.66	90.70 6.83 -38.90	86.64 6.70 -33.69	125.89 6.75 -72.90	143.04 7.29 -86.85	135.01 7.41 -69.75	110.44 5.80 -60.68	64.39 6.83 -6.62	72.61 5.32 -31.36	80.91 4.28 -47.15	66.91 4.25 -31.19	47.32 4.27 -10.96
GROVEVILLE___HYD 323602	43.77 1.77 -12.45	39.66 1.82 -8.49	35.60 2.03 -3.26	34.87 1.85 -4.92	33.08 1.83 -3.11	34.37 2.00 -1.56	36.40 2.02 -5.04	40.82 1.99 -9.07	42.41 2.28 -4.49	46.35 2.43 -5.91	46.78 2.80 -1.57	50.88 2.54 -6.66	55.11 2.59 -7.91	60.21 2.65 -12.59	60.08 2.82 -11.02	73.14 3.05 -23.85	81.05 3.42 -28.72	84.70 4.11 -22.74	66.76 2.99 -19.81	56.24 3.11 -2.19	48.41 2.08 -10.39	46.85 1.74 -15.62	43.79 1.98 -10.34	37.90 2.18 -3.63
GRS_LOCK_115KV_LINE_2_SOLVAY 80269	29.67 0.12 0.00	29.43 0.09 0.00	30.28 -0.03 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.78 -0.03 0.00	29.31 -0.03 0.00	29.79 0.03 0.00	35.53 -0.11 0.00	38.00 0.00 0.00	42.45 0.04 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.29 0.31 0.00	46.43 0.18 0.00	46.42 0.18 0.00	49.05 0.15 0.00	57.85 0.00 0.00	43.92 -0.04 0.00	50.84 -0.10 0.00	36.15 0.22 0.00	29.64 0.15 0.00	31.53 0.06 0.00	32.12 0.03 0.00
HAMLTNNY_34_KV_TB 80303	30.97 0.27 -1.16	30.40 0.26 -0.79	30.77 0.15 -0.30	28.61 0.06 -0.46	28.49 0.06 -0.29	31.11 0.15 -0.14	29.95 0.15 -0.47	30.81 0.21 -0.84	36.16 0.11 -0.42	38.66 0.11 -0.55	42.72 0.17 -0.15	42.67 0.38 -0.62	45.75 0.40 -0.73	46.64 0.49 -1.17	47.64 0.37 -1.02	48.77 0.32 -2.21	51.88 0.29 -2.68	60.26 0.29 -2.12	45.99 0.18 -1.85	51.30 0.15 -0.20	37.37 0.47 -0.97	31.31 0.35 -1.46	32.66 0.22 -0.96	32.62 0.19 -0.34
HAMPSHIRE___PAPER_HYD 323593	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.90 -0.20 0.00	27.86 -0.28 0.00	30.28 -0.52 0.00	28.63 -0.70 0.00	29.08 -0.68 0.00	34.82 -0.82 0.00	37.20 -0.80 0.00	41.48 -0.93 0.00	40.89 -0.79 0.00	43.63 -0.98 0.00	43.89 -1.08 0.00	45.18 -1.06 0.00	45.22 -1.02 0.00	47.73 -1.17 0.00	56.46 -1.39 0.00	42.95 -1.01 0.00	50.03 -0.92 0.00	35.11 -0.83 0.00	28.82 -0.68 0.00	30.94 -0.54 0.00	31.38 -0.71 0.00
HARDSCRABBLE_WT_PWR 323673	29.31 -0.24 0.00	29.14 -0.20 0.00	30.10 -0.21 0.00	27.90 -0.20 0.00	27.95 -0.20 0.00	30.59 -0.21 0.00	29.10 -0.24 0.00	29.56 -0.21 0.00	35.43 -0.21 0.00	38.04 0.04 0.00	42.49 0.08 0.00	41.85 0.17 0.00	44.75 0.13 0.00	44.97 0.00 0.00	46.15 -0.09 0.00	46.05 -0.18 0.00	48.76 -0.15 0.00	57.27 -0.58 0.00	43.48 -0.48 0.00	50.38 -0.56 0.00	35.58 -0.36 0.00	29.23 -0.27 0.00	31.16 -0.31 0.00	31.80 -0.29 0.00
HARRIMAN_69_KV_BK771_REV_LBMP_G 345025	42.24 1.36 -11.33	38.45 1.38 -7.73	34.88 1.61 -2.97	34.06 1.49 -4.48	32.47 1.49 -2.83	33.83 1.60 -1.42	35.59 1.67 -4.58	39.59 1.64 -8.20	41.55 1.85 -4.06	45.40 2.05 -5.34	46.20 2.37 -1.42	49.82 2.13 -6.02	53.90 2.14 -7.15	58.60 2.25 -11.37	58.61 2.40 -9.96	70.42 2.64 -21.55	78.08 3.03 -26.14	82.02 3.47 -20.70	64.50 2.51 -18.03	55.48 2.55 -2.00	47.12 1.72 -9.46	45.16 1.45 -14.22	42.55 1.67 -9.41	37.22 1.83 -3.31
HARSNRAD_115KV_TB1 81005	31.20 -0.06 -1.72	30.22 -0.29 -1.17	30.21 -0.55 -0.45	27.90 -0.87 -0.68	27.67 -0.90 -0.43	30.22 -0.80 -0.21	29.51 -0.53 -0.70	30.26 -0.74 -1.25	34.72 -1.53 -0.62	37.07 -1.75 -0.81	40.80 -1.82 -0.22	41.22 -1.38 -0.91	44.32 -1.38 -1.09	45.44 -1.26 -1.73	46.32 -1.43 -1.51	47.62 -1.90 -3.27	50.78 -2.10 -3.97	58.45 -2.55 -3.15	44.86 -1.85 -2.74	49.10 -2.14 -0.30	37.44 0.07 -1.44	31.80 0.15 -2.16	32.77 -0.13 -1.43	32.75 0.16 -0.50
HARZA MOOSE___RIVER 24016	30.20 0.65 0.00	29.96 0.62 0.00	30.76 0.45 0.00	28.51 0.42 0.00	28.51 0.37 0.00	31.18 0.37 0.00	29.54 0.21 0.00	30.03 0.27 0.00	36.00 0.36 0.00	38.53 0.53 0.00	43.09 0.68 0.00	42.55 0.88 0.00	45.42 0.80 0.00	45.69 0.72 0.00	46.98 0.74 0.00	46.88 0.65 0.00	49.64 0.73 0.00	58.55 0.69 0.00	44.44 0.48 0.00	51.60 0.66 0.00	36.47 0.54 0.00	29.88 0.38 0.00	31.85 0.38 0.00	32.38 0.29 0.00



HDSNBRDG_115KV_BRDG_TB1 355580	29.43 -0.12 0.00	29.20 -0.15 0.00	30.04 -0.27 0.00	27.78 -0.31 0.00	27.83 -0.31 0.00	30.53 -0.28 0.00	29.07 -0.26 0.00	29.55 -0.21 0.00	35.28 -0.36 0.00	37.66 -0.34 0.00	42.07 -0.34 0.00	41.51 -0.17 0.00	44.43 -0.18 0.00	44.88 -0.09 0.00	46.01 -0.23 0.00	46.01 -0.23 0.00	48.61 -0.29 0.00	57.39 -0.46 0.00	43.57 -0.40 0.00	50.43 -0.51 0.00	35.90 -0.04 0.00	29.41 -0.09 0.00	31.28 -0.19 0.00	31.86 -0.22 0.00
HELLGATE_13_KV_LD 55870	43.08 1.24 -12.30	39.20 1.47 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.08	34.16 1.82 -1.54	36.31 1.99 -4.98	40.60 1.93 -8.91	42.01 1.96 -4.41	45.93 2.13 -5.80	46.32 2.37 -1.53	50.25 1.96 -6.61	55.11 2.10 -8.40	57.55 2.25 -10.33	55.82 2.31 -7.26	66.45 2.77 -17.44	79.45 3.18 -27.36	75.46 3.93 -13.67	60.04 2.73 -13.35	52.33 2.85 1.46	48.06 1.87 -10.26	46.45 1.53 -15.42	43.57 1.89 -10.21	37.96 2.28 -3.59
HELLGT_W_13_KV_BRUCKNER_REV_LBMP_J 345018	43.08 1.24 -12.30	39.20 1.47 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.08	34.16 1.82 -1.54	36.31 1.99 -4.98	40.60 1.93 -8.91	42.01 1.96 -4.41	45.93 2.13 -5.80	46.32 2.37 -1.53	50.25 1.96 -6.61	55.11 2.10 -8.40	57.55 2.25 -10.33	55.82 2.31 -7.26	66.45 2.77 -17.44	79.45 3.18 -27.36	75.46 3.93 -13.67	60.04 2.73 -13.35	52.33 2.85 1.46	48.06 1.87 -10.26	46.45 1.53 -15.42	43.57 1.89 -10.21	37.96 2.28 -3.59
HEMPSTEAD____ 23647	66.29 1.95 -34.79	53.30 2.02 -21.93	50.63 2.33 -17.98	42.80 2.16 -12.54	41.22 2.22 -10.85	42.89 2.37 -9.71	41.03 2.46 -9.22	41.94 2.47 -9.70	60.54 2.78 -22.12	62.44 2.97 -21.48	70.07 3.18 -24.48	72.60 2.84 -28.08	74.49 3.12 -26.76	77.46 3.19 -29.29	82.85 3.33 -33.27	93.87 3.65 -43.98	113.85 4.06 -60.89	117.80 4.91 -55.03	92.66 3.61 -45.10	80.70 3.77 -25.99	72.84 2.62 -34.28	66.43 2.18 -34.75	47.95 2.58 -13.90	63.56 2.66 -28.81
HEWLETT_69_KV_BK3 55828	66.49 2.16 -34.79	53.51 2.23 -21.93	50.80 2.52 -17.98	43.02 2.39 -12.54	41.41 2.42 -10.85	43.10 2.59 -9.71	41.17 2.61 -9.22	41.63 2.65 -9.22	60.64 2.89 -22.11	62.59 3.12 -21.47	70.28 3.39 -24.48	72.80 3.04 -28.08	74.72 3.35 -26.76	77.77 3.51 -29.29	83.17 3.65 -33.27	94.19 3.98 -43.98	114.30 4.50 -60.89	118.27 5.38 -55.03	92.97 3.91 -45.10	81.05 4.13 -25.99	73.09 2.87 -34.28	66.58 2.33 -34.75	48.08 2.71 -13.90	63.70 2.92 -28.69
HICKLING___1 23621	34.22 1.60 -3.08	32.94 1.50 -2.10	32.42 1.30 -0.81	30.32 1.01 -1.22	29.93 1.01 -0.77	32.52 1.32 -0.38	31.88 1.29 -1.25	33.30 1.31 -2.23	37.89 1.14 -1.11	40.56 1.10 -1.46	44.20 1.40 -0.39	45.03 1.71 -1.64	48.39 1.83 -1.95	50.23 2.16 -3.10	50.99 2.03 -2.71	53.87 1.76 -5.87	56.96 1.03 -7.03	64.63 1.21 -5.56	49.73 0.92 -4.85	52.55 1.07 -0.54	40.06 1.58 -2.54	34.61 1.30 -3.82	35.04 1.04 -2.53	34.10 1.12 -0.89
HICKLING___2 23622	34.22 1.60 -3.08	32.94 1.50 -2.10	32.42 1.30 -0.81	30.32 1.01 -1.22	29.93 1.01 -0.77	32.52 1.32 -0.38	31.88 1.29 -1.25	33.30 1.31 -2.23	37.89 1.14 -1.11	40.56 1.10 -1.46	44.20 1.40 -0.39	45.03 1.71 -1.64	48.39 1.83 -1.95	50.23 2.16 -3.10	50.99 2.03 -2.71	53.87 1.76 -5.87	56.96 1.03 -7.03	64.63 1.21 -5.56	49.73 0.92 -4.85	52.55 1.07 -0.54	40.06 1.58 -2.54	34.61 1.30 -3.82	35.04 1.04 -2.53	34.10 1.12 -0.89
HIGH FALLS___HY 23754	44.20 1.24 -13.41	39.75 1.26 -9.15	35.31 1.49 -3.51	34.80 1.40 -5.30	32.87 1.38 -3.35	33.96 1.48 -1.68	36.27 1.53 -5.40	40.46 1.49 -9.21	42.20 1.75 -4.81	46.31 1.98 -6.33	45.20 2.37 -0.42	48.38 2.04 -4.66	51.95 2.05 -5.29	56.79 1.75 -10.06	56.71 1.94 -8.53	67.97 2.27 -19.46	76.75 2.69 -25.15	79.24 3.24 -18.15	62.62 2.37 -16.28	52.99 2.34 0.30	47.51 1.40 -10.18	45.80 1.42 -14.89	42.47 1.67 -9.33	37.67 1.80 -3.78
HILLBURN___GT 23639	42.27 1.18 -11.54	38.45 1.23 -7.87	34.82 1.48 -3.02	34.06 1.40 -4.56	32.43 1.41 -2.88	33.73 1.48 -1.44	35.62 1.61 -4.67	39.75 1.64 -8.35	41.56 1.78 -4.14	45.50 2.05 -5.44	46.18 2.33 -1.44	49.86 2.04 -6.14	54.08 2.19 -7.29	58.86 2.29 -11.59	58.80 2.40 -10.15	70.89 2.68 -21.97	78.56 3.03 -26.62	82.40 3.47 -21.08	64.78 2.46 -18.36	55.42 2.45 -2.03	47.25 1.69 -9.63	45.39 1.42 -14.48	42.68 1.64 -9.58	37.19 1.73 -3.37
HILLSIDE_115KV_TB1 80332	33.21 0.50 -3.16	31.91 0.41 -2.16	31.41 0.27 -0.83	29.40 0.06 -1.25	29.02 0.08 -0.79	31.45 0.25 -0.40	30.91 0.29 -1.28	32.30 0.24 -2.30	36.67 -0.11 -1.14	39.38 -0.11 -1.50	42.81 0.00 -0.40	43.61 0.25 -1.69	46.88 0.27 -2.00	48.65 0.49 -3.19	49.45 0.42 -2.79	52.41 0.14 -6.04	56.20 0.00 -7.29	63.57 -0.06 -5.78	48.95 -0.04 -5.03	51.45 -0.05 -0.56	39.26 0.68 -2.64	34.05 0.59 -3.97	34.41 0.31 -2.62	33.46 0.45 -0.92
HISHELDN_WT_PWR 323625	32.19 0.56 -2.08	31.09 0.32 -1.42	30.95 0.09 -0.55	28.69 -0.23 -0.82	28.38 -0.28 -0.52	30.98 -0.09 -0.26	30.30 0.12 -0.84	31.24 -0.03 -1.51	35.71 -0.68 -0.75	38.23 -0.76 -0.99	41.95 -0.72 -0.26	42.50 -0.29 -1.11	45.62 -0.31 -1.32	47.03 -0.04 -2.10	47.90 -0.18 -1.84	49.47 -0.74 -3.98	52.99 -0.73 -4.82	60.74 -0.93 -3.82	46.63 -0.66 -3.32	50.55 -0.76 -0.37	38.50 0.83 -1.74	32.82 0.71 -2.62	33.49 0.28 -1.73	33.21 0.51 -0.61
HOLTSVILLE_IC_1 23690	67.15 2.81 -34.79	54.24 2.96 -21.93	51.70 3.39 -18.00	43.82 3.17 -12.56	42.22 3.21 -10.87	43.95 3.42 -9.72	42.07 3.49 -9.24	43.55 3.51 -10.27	61.70 3.92 -22.14	63.60 4.11 -21.49	71.32 4.20 -24.71	89.12 3.75 -43.69	91.33 4.02 -42.70	126.14 3.96 -77.21	168.38 4.11 -118.02	167.11 4.30 -116.57	217.27 4.74 -163.62	230.31 5.73 -166.73	211.29 4.26 -163.07	169.17 4.79 -113.44	115.19 3.48 -75.77	106.67 2.92 -74.26	81.07 3.43 -46.17	76.66 3.59 -40.97
HOLTSVILLE_IC_10 23699	67.38 3.04 -34.79	54.51 3.23 -21.93	51.94 3.64 -18.00	44.05 3.40 -12.56	42.47 3.46 -10.87	44.22 3.70 -9.72	42.37 3.79 -9.24	43.81 3.78 -10.27	62.06 4.27 -22.14	63.90 4.41 -21.50	71.76 4.62 -24.72	90.55 4.17 -44.70	92.81 4.46 -43.73	129.74 4.45 -80.31	174.33 4.58 -123.50	172.31 4.81 -121.26	224.45 5.28 -170.26	252.27 6.36 -188.05	233.50 4.75 -184.79	175.38 5.35 -119.09	118.31 3.92 -78.46	109.55 3.24 -76.81	83.50 3.77 -48.26	77.83 3.95 -41.80
HOLTSVILLE_IC_2 23691	67.15 2.81 -34.79	54.24 2.96 -21.93	51.70 3.39 -18.00	43.82 3.17 -12.56	42.22 3.21 -10.87	43.95 3.42 -9.72	42.07 3.49 -9.24	43.55 3.51 -10.27	61.70 3.92 -22.14	63.60 4.11 -21.49	71.32 4.20 -24.71	89.12 3.75 -43.69	91.33 4.02 -42.70	126.14 3.96 -77.21	168.38 4.11 -118.02	167.11 4.30 -116.57	217.27 4.74 -163.62	230.31 5.73 -166.73	211.29 4.26 -163.07	169.17 4.79 -113.44	115.19 3.48 -75.77	106.67 2.92 -74.26	81.07 3.43 -46.17	76.66 3.59 -40.97
HOLTSVILLE_IC_3 23692	67.15 2.81 -34.79	54.24 2.96 -21.93	51.70 3.39 -18.00	43.82 3.17 -12.56	42.22 3.21 -10.87	43.95 3.42 -9.72	42.07 3.49 -9.24	43.55 3.51 -10.27	61.70 3.92 -22.14	63.60 4.11 -21.49	71.32 4.20 -24.71	89.12 3.75 -43.69	91.33 4.02 -42.70	126.14 3.96 -77.21	168.38 4.11 -118.02	167.11 4.30 -116.57	217.27 4.74 -163.62	230.31 5.73 -166.73	211.29 4.26 -163.07	169.17 4.79 -113.44	115.19 3.48 -75.77	106.67 2.92 -74.26	81.07 3.43 -46.17	76.66 3.59 -40.97



HOLTSVILLE_IC_4 23693	67.15 2.81 -34.79	54.24 2.96 -21.93	51.70 3.39 -18.00	43.82 3.17 -12.56	42.22 3.21 -10.87	43.95 3.42 -9.72	42.07 3.49 -9.24	43.55 3.51 -10.27	61.70 3.92 -22.14	63.60 4.11 -21.49	71.32 4.20 -24.71	89.12 3.75 -43.69	91.33 4.02 -42.70	126.14 3.96 -77.21	168.38 4.11 -118.02	167.11 4.30 -116.57	217.27 4.74 -163.62	230.31 5.73 -166.73	211.29 4.26 -163.07	169.17 4.79 -113.44	115.19 3.48 -75.77	106.67 2.92 -74.26	81.07 3.43 -46.17	76.66 3.59 -40.97
HOLTSVILLE_IC_5 23694	67.15 2.81 -34.79	54.24 2.96 -21.93	51.70 3.39 -18.00	43.82 3.17 -12.56	42.22 3.21 -10.87	43.95 3.42 -9.72	42.07 3.49 -9.24	43.55 3.51 -10.27	61.70 3.92 -22.14	63.60 4.11 -21.49	71.32 4.20 -24.71	89.12 3.75 -43.69	91.33 4.02 -42.70	126.14 3.96 -77.21	168.38 4.11 -118.02	167.11 4.30 -116.57	217.27 4.74 -163.62	230.31 5.73 -166.73	211.29 4.26 -163.07	169.17 4.79 -113.44	115.19 3.48 -75.77	106.67 2.92 -74.26	81.07 3.43 -46.17	76.66 3.59 -40.97
HOLTSVILLE_IC_6 23695	67.38 3.04 -34.79	54.51 3.23 -21.93	51.94 3.64 -18.00	44.05 3.40 -12.56	42.47 3.46 -10.87	44.22 3.70 -9.72	42.37 3.79 -9.24	43.81 3.78 -10.27	62.06 4.27 -22.14	63.90 4.41 -21.50	71.76 4.62 -24.72	90.55 4.17 -44.70	92.81 4.46 -43.73	129.74 4.45 -80.31	174.33 4.58 -123.50	172.31 4.81 -121.26	224.45 5.28 -170.26	252.27 6.36 -188.05	233.50 4.75 -184.79	175.38 5.35 -119.09	118.31 3.92 -78.46	109.55 3.24 -76.81	83.50 3.77 -48.26	77.83 3.95 -41.80
HOLTSVILLE_IC_7 23696	67.38 3.04 -34.79	54.51 3.23 -21.93	51.94 3.64 -18.00	44.05 3.40 -12.56	42.47 3.46 -10.87	44.22 3.70 -9.72	42.37 3.79 -9.24	43.81 3.78 -10.27	62.06 4.27 -22.14	63.90 4.41 -21.50	71.76 4.62 -24.72	90.55 4.17 -44.70	92.81 4.46 -43.73	129.74 4.45 -80.31	174.33 4.58 -123.50	172.31 4.81 -121.26	224.45 5.28 -170.26	252.27 6.36 -188.05	233.50 4.75 -184.79	175.38 5.35 -119.09	118.31 3.92 -78.46	109.55 3.24 -76.81	83.50 3.77 -48.26	77.83 3.95 -41.80
HOLTSVILLE_IC_8 23697	67.38 3.04 -34.79	54.51 3.23 -21.93	51.94 3.64 -18.00	44.05 3.40 -12.56	42.47 3.46 -10.87	44.22 3.70 -9.72	42.37 3.79 -9.24	43.81 3.78 -10.27	62.06 4.27 -22.14	63.90 4.41 -21.50	71.76 4.62 -24.72	90.55 4.17 -44.70	92.81 4.46 -43.73	129.74 4.45 -80.31	174.33 4.58 -123.50	172.31 4.81 -121.26	224.45 5.28 -170.26	252.27 6.36 -188.05	233.50 4.75 -184.79	175.38 5.35 -119.09	118.31 3.92 -78.46	109.55 3.24 -76.81	83.50 3.77 -48.26	77.83 3.95 -41.80
HOLTSVILLE_IC_9 23698	67.38 3.04 -34.79	54.51 3.23 -21.93	51.94 3.64 -18.00	44.05 3.40 -12.56	42.47 3.46 -10.87	44.22 3.70 -9.72	42.37 3.79 -9.24	43.81 3.78 -10.27	62.06 4.27 -22.14	63.90 4.41 -21.50	71.76 4.62 -24.72	90.55 4.17 -44.70	92.81 4.46 -43.73	129.74 4.45 -80.31	174.33 4.58 -123.50	172.31 4.81 -121.26	224.45 5.28 -170.26	252.27 6.36 -188.05	233.50 4.75 -184.79	175.38 5.35 -119.09	118.31 3.92 -78.46	109.55 3.24 -76.81	83.50 3.77 -48.26	77.83 3.95 -41.80
HOMER_HL_115KV_TB2 355744	32.47 0.71 -2.21	31.35 0.50 -1.51	31.16 0.27 -0.58	28.91 -0.06 -0.87	28.64 -0.06 -0.55	31.21 0.12 -0.28	30.56 0.32 -0.90	31.58 0.21 -1.61	35.72 -0.71 -0.80	38.17 -0.87 -1.05	41.88 -0.81 -0.28	42.44 -0.42 -1.18	45.61 -0.40 -1.40	47.11 -0.09 -2.23	48.06 -0.14 -1.95	49.72 -0.74 -4.22	53.15 -0.88 -5.12	60.87 -1.04 -4.05	46.83 -0.66 -3.53	50.47 -0.87 -0.39	38.47 0.68 -1.85	32.87 0.59 -2.78	33.41 0.09 -1.84	33.38 0.64 -0.65
HOWARD_WT_PWR 323690	33.28 1.24 -2.49	32.10 1.05 -1.70	31.78 0.82 -0.65	29.58 0.51 -0.99	29.27 0.51 -0.62	31.92 0.80 -0.31	31.26 0.91 -1.01	32.40 0.83 -1.81	36.89 0.36 -0.90	39.64 0.46 -1.18	43.36 0.64 -0.31	44.05 1.04 -1.33	47.17 0.98 -1.58	48.70 1.21 -2.51	49.46 1.02 -2.20	51.64 0.65 -4.76	55.40 0.73 -5.76	63.11 0.70 -4.56	48.55 0.62 -3.97	52.09 0.71 -0.44	39.74 1.72 -2.08	34.07 1.44 -3.13	34.65 1.10 -2.07	34.07 1.25 -0.73
HQ_GEN_CEDARS 23644	29.25 -0.30 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.76 -0.34 0.00	27.78 -0.37 0.00	30.29 -0.52 0.00	28.78 -0.56 0.00	29.20 -0.57 0.00	35.14 -0.50 0.00	37.51 -0.49 0.00	41.77 -0.64 0.00	41.05 -0.63 0.00	43.94 -0.67 0.00	44.21 -0.76 0.00	45.64 -0.60 0.00	45.64 -0.60 0.00	48.08 -0.83 0.00	56.75 -1.10 0.00	43.21 -0.75 0.00	50.33 -0.61 0.00	35.11 -0.83 0.00	28.84 -0.65 0.00	30.97 -0.50 0.00	31.45 -0.64 0.00
HQ_GEN_CEDARS_PROXY 323590	29.25 -0.30 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.76 -0.34 0.00	27.83 -0.31 0.00	30.28 -0.52 0.00	28.78 -0.56 0.00	29.20 -0.57 0.00	35.14 -0.50 0.00	37.51 -0.50 0.00	41.78 -0.63 0.00	41.05 -0.62 0.00	43.95 -0.67 0.00	44.21 -0.76 0.00	45.64 -0.60 0.00	45.68 -0.55 0.00	48.08 -0.83 0.00	56.75 -1.10 0.00	43.21 -0.75 0.00	50.33 -0.61 0.00	35.11 -0.83 0.00	28.84 -0.65 0.00	30.97 -0.50 0.00	31.45 -0.64 0.00
HQ_GEN_IMPORT 323601	29.19 -0.35 0.00	28.99 -0.35 0.00	29.91 -0.39 0.00	27.73 -0.37 0.00	27.81 -0.34 0.00	30.38 -0.43 0.00	28.93 -0.41 0.00	29.32 -0.45 0.00	35.28 -0.36 0.00	37.62 -0.38 0.00	41.94 -0.47 0.00	41.22 -0.46 0.00	44.12 -0.49 0.00	44.48 -0.49 0.00	45.83 -0.42 0.00	45.82 -0.42 0.00	48.37 -0.54 0.00	57.22 -0.64 0.00	43.52 -0.44 0.00	50.48 -0.46 0.00	35.36 -0.58 0.00	29.02 -0.47 0.00	31.03 -0.44 0.00	31.57 -0.51 0.00
HQ_GEN_WHEEL 23651	29.19 -0.35 0.00	28.99 -0.35 0.00	29.91 -0.39 0.00	27.73 -0.37 0.00	27.81 -0.34 0.00	30.38 -0.43 0.00	28.93 -0.41 0.00	29.32 -0.45 0.00	35.28 -0.36 0.00	37.62 -0.38 0.00	41.94 -0.47 0.00	41.22 -0.46 0.00	44.12 -0.49 0.00	44.48 -0.49 0.00	45.83 -0.42 0.00	45.82 -0.42 0.00	48.37 -0.54 0.00	57.22 -0.64 0.00	43.52 -0.44 0.00	50.48 -0.46 0.00	35.36 -0.58 0.00	29.02 -0.47 0.00	31.03 -0.44 0.00	31.57 -0.51 0.00
HUDSON_AVE_GT_3 23810	43.26 1.42 -12.30	39.26 1.53 -8.39	35.41 1.88 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.24 2.43 -5.80	46.62 2.67 -1.54	50.64 2.33 -6.62	55.52 2.50 -8.41	60.24 2.65 -12.61	59.93 2.73 -10.96	73.10 3.14 -23.72	80.94 3.62 -28.41	84.96 4.40 -22.71	66.85 3.12 -19.77	56.21 3.11 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.76 2.08 -10.21	37.95 2.28 -3.59
HUDSON_AVE_GT_4 23540	43.26 1.42 -12.30	39.26 1.53 -8.39	35.41 1.88 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.24 2.43 -5.80	46.62 2.67 -1.54	50.64 2.33 -6.62	55.52 2.50 -8.41	60.24 2.65 -12.61	59.93 2.73 -10.96	73.10 3.14 -23.72	80.94 3.62 -28.41	84.96 4.40 -22.71	66.85 3.12 -19.77	56.21 3.11 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.76 2.08 -10.21	37.95 2.28 -3.59
HUDSON_AVE_GT_5 23657	43.26 1.42 -12.30	39.26 1.53 -8.39	35.41 1.88 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.24 2.43 -5.80	46.62 2.67 -1.54	50.64 2.33 -6.62	55.52 2.50 -8.41	60.24 2.65 -12.61	59.93 2.73 -10.96	73.10 3.14 -23.72	80.94 3.62 -28.41	84.96 4.40 -22.71	66.85 3.12 -19.77	56.21 3.11 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.76 2.08 -10.21	37.95 2.28 -3.59



HUDSON_AVE_10 24168	43.17 1.33 -12.30	39.17 1.44 -8.39	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.74 -3.07	34.16 1.82 -1.54	36.31 1.99 -4.98	40.66 1.99 -8.90	42.26 2.21 -4.41	46.16 2.36 -5.80	46.49 2.54 -1.54	50.47 2.17 -6.62	55.39 2.36 -8.41	60.10 2.52 -12.61	59.79 2.59 -10.96	73.01 3.05 -23.72	80.84 3.52 -28.41	84.85 4.28 -22.71	66.76 3.03 -19.77	56.11 3.01 -2.17	48.25 2.05 -10.27	46.58 1.65 -15.43	43.70 2.01 -10.21	37.89 2.21 -3.59
HUDSON___115KV_TB 4 355613	54.74 1.57 -23.62	47.02 1.56 -16.12	38.14 1.64 -6.19	38.92 1.49 -9.34	35.51 1.46 -5.90	35.39 1.63 -2.95	40.26 1.50 -9.43	44.72 1.46 -13.50	45.67 1.68 -8.36	50.75 1.75 -11.00	38.84 2.04 5.61	39.10 2.00 4.58	38.00 2.05 8.67	46.69 2.11 0.39	46.44 2.22 2.02	50.86 2.17 -2.45	66.26 2.30 -15.05	59.96 2.83 0.73	48.77 2.15 -2.66	39.57 2.55 13.92	50.53 1.76 -12.83	47.52 1.56 -16.47	40.53 1.70 -7.36	39.72 1.60 -6.02
HUNTER MOUNT___DRP 323613	52.79 1.83 -21.41	45.74 1.79 -14.60	37.74 1.82 -5.61	38.21 1.66 -8.46	35.10 1.60 -5.35	35.30 1.82 -2.68	39.57 1.67 -8.56	44.04 1.58 -12.70	45.05 1.82 -7.59	49.86 1.86 -9.99	40.71 2.29 3.99	42.07 2.29 1.90	42.40 2.23 4.45	50.16 2.29 -2.89	49.82 2.40 -1.18	56.41 2.31 -7.86	70.12 2.49 -18.72	66.02 3.07 -5.11	53.33 2.37 -7.00	43.49 2.85 10.30	50.32 1.87 -12.51	47.85 1.74 -16.61	41.66 1.95 -8.24	39.36 1.70 -5.57
HUNTINGTON_RES_REC 323705	66.91 2.57 -34.79	53.98 2.70 -21.93	51.37 3.09 -17.97	43.49 2.87 -12.53	41.91 2.93 -10.84	43.63 3.11 -9.72	41.90 3.34 -9.22	43.36 3.36 -10.24	61.62 3.82 -22.16	63.47 3.95 -21.52	71.76 4.28 -25.06	112.83 3.79 -67.36	115.46 3.97 -66.88	198.82 4.00 -149.85	296.75 4.02 -246.48	277.18 4.34 -226.60	373.02 4.80 -319.32	534.62 5.84 -470.92	525.04 4.31 -476.77	301.61 4.68 -245.99	178.05 3.45 -138.66	166.52 2.89 -134.14	129.97 3.40 -95.10	95.33 3.62 -59.62
HUNTLEY___63 23557	31.72 0.38 -1.79	30.71 0.15 -1.22	30.69 -0.09 -0.47	28.35 -0.45 -0.71	28.14 -0.45 -0.45	30.66 -0.37 -0.22	29.95 -0.12 -0.73	30.71 -0.36 -1.30	35.22 -1.07 -0.64	37.63 -1.22 -0.85	41.28 -1.36 -0.22	41.76 -0.88 -0.95	44.90 -0.85 -1.13	46.10 -0.67 -1.80	46.99 -0.83 -1.58	48.36 -1.29 -3.42	51.54 -1.52 -4.15	59.23 -1.91 -3.28	45.46 -1.36 -2.86	49.68 -1.58 -0.32	38.01 0.57 -1.50	32.19 0.44 -2.26	33.03 0.06 -1.49	33.00 0.39 -0.52
HUNTLEY___64 23558	31.72 0.38 -1.79	30.71 0.15 -1.22	30.69 -0.09 -0.47	28.35 -0.45 -0.71	28.14 -0.45 -0.45	30.66 -0.37 -0.22	29.95 -0.12 -0.73	30.71 -0.36 -1.30	35.22 -1.07 -0.64	37.63 -1.22 -0.85	41.28 -1.36 -0.22	41.76 -0.88 -0.95	44.90 -0.85 -1.13	46.10 -0.67 -1.80	46.99 -0.83 -1.58	48.36 -1.29 -3.42	51.54 -1.52 -4.15	59.23 -1.91 -3.28	45.46 -1.36 -2.86	49.68 -1.58 -0.32	38.01 0.57 -1.50	32.19 0.44 -2.26	33.03 0.06 -1.49	33.00 0.39 -0.52
HUNTLEY___65 23559	31.72 0.38 -1.79	30.71 0.15 -1.22	30.69 -0.09 -0.47	28.35 -0.45 -0.71	28.14 -0.45 -0.45	30.66 -0.37 -0.22	29.95 -0.12 -0.73	30.71 -0.36 -1.30	35.22 -1.07 -0.64	37.63 -1.22 -0.85	41.28 -1.36 -0.22	41.76 -0.88 -0.95	44.90 -0.85 -1.13	46.10 -0.67 -1.80	46.99 -0.83 -1.58	48.36 -1.29 -3.42	51.54 -1.52 -4.15	59.23 -1.91 -3.28	45.46 -1.36 -2.86	49.68 -1.58 -0.32	38.01 0.57 -1.50	32.19 0.44 -2.26	33.03 0.06 -1.49	33.00 0.39 -0.52
HUNTLEY___66 23560	31.72 0.38 -1.79	30.71 0.15 -1.22	30.69 -0.09 -0.47	28.35 -0.45 -0.71	28.14 -0.45 -0.45	30.66 -0.37 -0.22	29.95 -0.12 -0.73	30.71 -0.36 -1.30	35.22 -1.07 -0.64	37.63 -1.22 -0.85	41.28 -1.36 -0.22	41.76 -0.88 -0.95	44.90 -0.85 -1.13	46.10 -0.67 -1.80	46.99 -0.83 -1.58	48.36 -1.29 -3.42	51.54 -1.52 -4.15	59.23 -1.91 -3.28	45.46 -1.36 -2.86	49.68 -1.58 -0.32	38.01 0.57 -1.50	32.19 0.44 -2.26	33.03 0.06 -1.49	33.00 0.39 -0.52
HUNTLEY___67 23561	31.68 0.30 -1.84	30.66 0.06 -1.25	30.61 -0.18 -0.48	28.31 -0.51 -0.73	28.07 -0.53 -0.46	30.64 -0.40 -0.23	29.93 -0.15 -0.74	30.74 -0.36 -1.33	35.20 -1.10 -0.66	37.62 -1.25 -0.87	41.37 -1.27 -0.23	41.82 -0.83 -0.98	45.02 -0.76 -1.16	46.24 -0.58 -1.85	47.17 -0.69 -1.62	48.58 -1.16 -3.50	51.79 -1.37 -4.25	59.54 -1.68 -3.36	45.70 -1.19 -2.93	49.84 -1.43 -0.32	37.97 0.50 -1.54	32.22 0.41 -2.31	33.03 0.03 -1.53	32.85 0.22 -0.54
HUNTLEY___68 23562	31.68 0.30 -1.84	30.66 0.06 -1.25	30.61 -0.18 -0.48	28.31 -0.51 -0.73	28.07 -0.53 -0.46	30.64 -0.40 -0.23	29.93 -0.15 -0.74	30.74 -0.36 -1.33	35.20 -1.10 -0.66	37.62 -1.25 -0.87	41.37 -1.27 -0.23	41.82 -0.83 -0.98	45.02 -0.76 -1.16	46.24 -0.58 -1.85	47.17 -0.69 -1.62	48.58 -1.16 -3.50	51.79 -1.37 -4.25	59.54 -1.68 -3.36	45.70 -1.19 -2.93	49.84 -1.43 -0.32	37.97 0.50 -1.54	32.22 0.41 -2.31	33.03 0.03 -1.53	32.85 0.22 -0.54
HYLAND___LFGE 323620	32.82 1.27 -2.00	31.85 1.14 -1.37	31.68 0.85 -0.52	29.48 0.59 -0.79	29.09 0.45 -0.50	31.80 0.74 -0.25	30.88 0.73 -0.81	31.36 0.15 -1.45	35.58 -0.78 -0.72	37.51 -1.44 -0.95	41.09 -1.57 -0.25	41.25 -1.50 -1.07	41.06 -4.82 -1.27	42.22 -4.77 -2.02	43.34 -4.67 -1.77	45.06 -4.99 -3.82	48.55 -4.99 -4.63	57.82 -3.70 -3.67	45.00 -2.15 -3.19	49.77 -1.53 -0.35	39.62 2.01 -1.68	33.66 1.65 -2.52	34.43 1.29 -1.67	33.96 1.28 -0.59
INDECK___CORINTH 23802	71.57 2.36 -39.66	58.72 2.32 -27.05	42.97 2.27 -10.39	45.82 2.05 -15.68	40.08 2.03 -9.91	38.01 2.25 -4.96	48.04 2.11 -16.59	64.66 2.17 -32.73	59.61 2.49 -21.48	70.79 2.66 -30.13	58.16 2.97 -12.78	80.89 3.13 -36.08	87.34 3.35 -39.38	108.15 3.51 -59.67	104.45 3.56 -54.65	161.81 3.33 -112.24	181.15 3.33 -128.91	172.42 3.65 -110.92	140.91 3.03 -93.92	77.81 3.47 -23.40	78.69 2.59 -40.17	94.81 2.39 -62.93	78.64 2.36 -44.81	47.16 2.41 -12.66
INDECK___ILION 23567	29.52 -0.03 0.00	29.32 -0.03 0.00	30.28 -0.03 0.00	28.06 -0.03 0.00	28.12 -0.03 0.00	30.78 -0.03 0.00	29.28 -0.06 0.00	29.73 -0.03 0.00	35.60 -0.04 0.00	38.08 0.08 0.00	42.54 0.13 0.00	41.89 0.21 0.00	44.79 0.18 0.00	45.06 0.09 0.00	46.29 0.05 0.00	46.28 0.05 0.00	48.96 0.05 0.00	57.74 -0.12 0.00	43.87 -0.09 0.00	50.79 -0.15 0.00	35.90 -0.04 0.00	29.46 -0.03 0.00	31.41 -0.06 0.00	32.02 -0.06 0.00
INDECK___OLEAN 23982	32.47 0.71 -2.21	31.35 0.50 -1.51	31.16 0.27 -0.58	28.91 -0.06 -0.87	28.61 -0.08 -0.55	31.21 0.12 -0.28	30.56 0.32 -0.90	31.58 0.21 -1.61	35.72 -0.71 -0.80	38.18 -0.87 -1.05	41.93 -0.76 -0.28	42.44 -0.42 -1.18	45.61 -0.40 -1.40	47.11 -0.09 -2.23	48.10 -0.09 -1.95	49.72 -0.74 -4.22	53.24 -0.78 -5.12	60.98 -0.93 -4.05	46.83 -0.66 -3.53	50.47 -0.87 -0.39	38.43 0.65 -1.85	32.90 0.62 -2.78	33.34 0.03 -1.84	33.38 0.64 -0.65
INDECK___OSWEGO 23783	29.04 -0.50 0.00	28.85 -0.50 0.00	29.70 -0.61 0.00	27.50 -0.59 0.00	27.52 -0.62 0.00	30.16 -0.65 0.00	28.72 -0.62 0.00	29.20 -0.57 0.00	34.57 -1.07 0.00	36.82 -1.18 0.00	41.14 -1.27 0.00	40.51 -1.17 0.00	43.36 -1.25 0.00	43.80 -1.17 0.00	44.90 -1.34 0.00	44.89 -1.34 0.00	47.49 -1.42 0.00	56.17 -1.68 0.00	42.64 -1.32 0.00	49.41 -1.53 0.00	35.11 -0.83 0.00	29.02 -0.47 0.00	30.87 -0.60 0.00	31.45 -0.64 0.00



INDECK___YERKES 23781	31.75 0.41 -1.79	30.74 0.18 -1.22	30.72 -0.06 -0.47	28.38 -0.42 -0.71	28.11 -0.48 -0.45	30.69 -0.34 -0.22	29.98 -0.09 -0.73	30.74 -0.33 -1.30	35.25 -1.03 -0.64	37.67 -1.18 -0.85	41.28 -1.36 -0.22	41.76 -0.88 -0.95	44.86 -0.89 -1.13	46.15 -0.63 -1.80	46.99 -0.83 -1.58	48.27 -1.39 -3.42	51.63 -1.42 -4.14	59.34 -1.79 -3.28	45.46 -1.36 -2.86	49.68 -1.58 -0.32	38.01 0.57 -1.50	32.25 0.50 -2.25	32.99 0.03 -1.49	33.03 0.42 -0.52
INDIAN POINT_GT_1 24139	43.04 1.36 -12.13	39.06 1.44 -8.28	35.19 1.70 -3.18	34.49 1.60 -4.80	32.78 1.60 -3.03	34.05 1.73 -1.52	36.04 1.79 -4.91	40.36 1.82 -8.78	41.99 2.00 -4.35	45.86 2.13 -5.73	46.30 2.37 -1.52	50.30 2.08 -6.53	55.22 2.32 -8.28	59.84 2.43 -12.44	59.60 2.54 -10.81	72.45 2.82 -23.39	80.17 3.23 -28.03	84.13 3.88 -22.40	66.27 2.81 -19.50	55.93 2.85 -2.14	48.04 1.98 -10.13	46.34 1.62 -15.23	43.37 1.83 -10.07	37.65 2.02 -3.54
INDIAN POINT_GT_2 23659	43.04 1.36 -12.13	39.06 1.44 -8.28	35.19 1.70 -3.18	34.49 1.60 -4.80	32.78 1.60 -3.03	34.05 1.73 -1.52	36.04 1.79 -4.91	40.36 1.82 -8.78	41.99 2.00 -4.35	45.86 2.13 -5.73	46.30 2.37 -1.52	50.30 2.08 -6.53	55.22 2.32 -8.28	59.84 2.43 -12.44	59.60 2.54 -10.81	72.45 2.82 -23.39	80.17 3.23 -28.03	84.13 3.88 -22.40	66.27 2.81 -19.50	55.93 2.85 -2.14	48.04 1.98 -10.13	46.34 1.62 -15.23	43.37 1.83 -10.07	37.65 2.02 -3.54
INDIAN POINT_GT_3 24019	43.04 1.36 -12.13	39.06 1.44 -8.28	35.19 1.70 -3.18	34.49 1.60 -4.80	32.78 1.60 -3.03	34.05 1.73 -1.52	36.04 1.79 -4.91	40.36 1.82 -8.78	41.99 2.00 -4.35	45.86 2.13 -5.73	46.30 2.37 -1.52	50.30 2.08 -6.53	55.22 2.32 -8.28	59.84 2.43 -12.44	59.60 2.54 -10.81	72.45 2.82 -23.39	80.17 3.23 -28.03	84.13 3.88 -22.40	66.27 2.81 -19.50	55.93 2.85 -2.14	48.04 1.98 -10.13	46.34 1.62 -15.23	43.37 1.83 -10.07	37.65 2.02 -3.54
INDIAN POINT___2 23530	42.76 1.30 -11.92	38.82 1.35 -8.13	35.07 1.64 -3.12	34.32 1.52 -4.71	32.67 1.55 -2.98	33.93 1.63 -1.49	35.89 1.73 -4.82	40.15 1.76 -8.63	41.84 1.92 -4.27	45.68 2.05 -5.62	46.19 2.29 -1.49	50.09 2.00 -6.41	54.96 2.23 -8.12	59.47 2.29 -12.21	59.26 2.40 -10.61	71.88 2.68 -22.97	79.47 3.03 -27.53	83.55 3.71 -22.00	65.79 2.68 -19.14	55.74 2.70 -2.10	47.75 1.87 -9.95	45.98 1.53 -14.95	43.16 1.79 -9.89	37.46 1.89 -3.48
INDIAN POINT___3 23531	42.99 1.30 -12.14	39.01 1.38 -8.28	35.13 1.64 -3.18	34.44 1.55 -4.80	32.75 1.58 -3.03	33.99 1.66 -1.52	35.98 1.73 -4.91	40.31 1.76 -8.79	41.95 1.96 -4.35	45.78 2.05 -5.73	46.26 2.33 -1.52	50.26 2.04 -6.54	55.09 2.19 -8.29	59.71 2.29 -12.44	59.47 2.40 -10.82	72.33 2.68 -23.41	80.04 3.08 -28.05	83.98 3.70 -22.42	66.16 2.68 -19.51	55.78 2.70 -2.14	47.94 1.87 -10.14	46.29 1.56 -15.24	43.35 1.79 -10.08	37.59 1.96 -3.54
INGHAM_C_115KV_TB7 356103	29.22 -0.33 0.00	29.02 -0.32 0.00	29.98 -0.33 0.00	27.78 -0.31 0.00	27.83 -0.31 0.00	30.47 -0.34 0.00	28.99 -0.35 0.00	29.43 -0.33 0.00	35.28 -0.36 0.00	37.85 -0.15 0.00	42.28 -0.13 0.00	41.60 -0.08 0.00	44.52 -0.09 0.00	44.75 -0.22 0.00	45.87 -0.37 0.00	45.82 -0.42 0.00	48.52 -0.39 0.00	56.98 -0.87 0.00	43.30 -0.66 0.00	50.18 -0.76 0.00	35.40 -0.54 0.00	29.11 -0.38 0.00	31.06 -0.41 0.00	31.67 -0.42 0.00
IP CORINTH___1 23988	71.75 2.54 -39.66	58.89 2.49 -27.05	43.12 2.42 -10.39	45.96 2.19 -15.68	40.25 2.20 -9.91	38.20 2.43 -4.96	48.22 2.29 -16.59	64.84 2.35 -32.73	53.06 2.71 -14.71	60.25 2.89 -19.35	58.37 3.18 -12.78	81.14 3.38 -36.08	87.56 3.57 -39.38	108.42 3.78 -59.67	104.73 3.84 -54.65	162.13 3.65 -112.24	181.44 3.62 -128.91	172.77 3.99 -110.92	141.18 3.30 -93.92	78.11 3.77 -23.40	78.90 2.80 -40.17	94.99 2.57 -62.93	78.83 2.55 -44.81	47.35 2.60 -12.66
IP___TICONDEROGA 23804	73.99 5.02 -39.42	61.11 4.87 -26.89	45.30 4.67 -10.33	47.86 4.19 -15.58	42.16 4.17 -9.85	40.42 4.68 -4.93	50.26 4.40 -16.52	67.29 4.61 -32.92	55.81 5.52 -14.65	63.20 5.93 -19.27	62.87 6.91 -13.55	86.48 7.38 -37.42	92.76 7.81 -40.34	114.39 8.14 -61.28	110.87 8.28 -56.35	169.34 7.81 -115.29	188.77 7.83 -132.04	181.02 8.97 -114.20	147.37 6.90 -96.51	83.93 7.95 -25.04	82.46 5.89 -40.64	98.34 4.95 -63.89	82.09 4.85 -45.78	49.58 4.81 -12.68
ISLIP_RES_REC 323679	67.59 3.25 -34.79	54.71 3.43 -21.93	52.16 3.85 -18.00	44.22 3.57 -12.56	42.64 3.63 -10.87	44.41 3.88 -9.72	42.57 3.99 -9.24	44.04 4.02 -10.26	62.38 4.60 -22.14	64.25 4.75 -21.49	72.15 5.04 -24.70	89.48 4.58 -43.22	91.70 4.86 -42.22	125.68 4.95 -75.76	166.78 5.09 -115.45	165.92 5.32 -114.37	215.22 5.82 -160.50	240.47 7.00 -175.62	220.95 5.23 -171.76	167.58 5.86 -110.78	114.69 4.24 -74.51	106.06 3.51 -73.06	80.72 4.06 -45.19	76.95 4.20 -40.66
JAMAICA__27_KV_LOAD 355505	43.35 1.51 -12.30	39.32 1.58 -8.39	35.50 1.97 -3.22	34.78 1.83 -4.86	33.07 1.86 -3.07	34.32 1.97 -1.54	36.48 2.17 -4.98	40.93 2.26 -8.90	42.58 2.53 -4.41	46.47 2.66 -5.80	46.66 2.71 -1.54	50.68 2.38 -6.62	55.61 2.59 -8.41	60.37 2.79 -12.61	60.12 2.91 -10.96	73.38 3.42 -23.72	81.33 4.01 -28.41	85.42 4.86 -22.71	67.20 3.47 -19.77	56.57 3.46 -2.17	48.50 2.30 -10.27	46.76 1.83 -15.43	44.04 2.36 -10.21	38.15 2.47 -3.59
JANIS___SOLAR 323808	35.28 1.83 -3.90	33.80 1.79 -2.66	32.94 1.61 -1.02	31.01 1.38 -1.54	30.50 1.38 -0.98	32.93 1.63 -0.49	32.36 1.44 -1.59	34.12 1.52 -2.84	38.47 1.43 -1.41	41.41 1.56 -1.85	44.68 1.78 -0.49	45.85 2.08 -2.09	49.27 2.19 -2.48	51.12 2.20 -3.94	51.82 2.13 -3.45	55.79 2.08 -7.47	60.25 2.30 -9.05	67.74 2.72 -7.16	52.44 2.24 -6.24	54.33 2.70 -0.69	41.58 2.37 -3.27	36.30 1.89 -4.92	36.49 1.76 -3.26	34.96 1.73 -1.14
JARVIS____ 23743	29.61 0.06 0.00	29.40 0.06 0.00	30.37 0.06 0.00	28.15 0.06 0.00	28.20 0.06 0.00	30.87 0.06 0.00	29.40 0.06 0.00	29.82 0.06 0.00	35.71 0.07 0.00	38.08 0.08 0.00	42.54 0.13 0.00	41.80 0.13 0.00	44.75 0.13 0.00	45.06 0.09 0.00	46.34 0.09 0.00	46.28 0.05 0.00	49.01 0.10 0.00	57.91 0.06 0.00	44.05 0.09 0.00	51.04 0.10 0.00	36.04 0.11 0.00	29.58 0.09 0.00	31.53 0.06 0.00	32.18 0.10 0.00
JENNISON___1 23625	37.33 2.04 -5.75	35.26 2.00 -3.92	33.66 1.85 -1.51	32.05 1.69 -2.27	31.24 1.66 -1.44	33.44 1.91 -0.72	33.32 1.64 -2.34	35.70 1.76 -4.18	39.64 1.92 -2.07	42.97 2.24 -2.73	45.76 2.63 -0.72	47.67 2.92 -3.07	51.34 3.08 -3.65	53.79 3.01 -5.81	54.29 2.96 -5.08	60.10 2.87 -11.00	65.27 3.03 -13.33	71.82 3.41 -10.55	55.79 2.64 -9.19	55.01 3.06 -1.02	43.31 2.55 -4.82	38.78 2.04 -7.25	38.25 1.98 -4.80	35.76 1.99 -1.69
JENNISON___2 23626	37.33 2.04 -5.75	35.26 2.00 -3.92	33.66 1.85 -1.51	32.05 1.69 -2.27	31.24 1.66 -1.44	33.44 1.91 -0.72	33.32 1.64 -2.34	35.70 1.76 -4.18	39.64 1.92 -2.07	42.97 2.24 -2.73	45.76 2.63 -0.72	47.67 2.92 -3.07	51.34 3.08 -3.65	53.79 3.01 -5.81	54.29 2.96 -5.08	60.10 2.87 -11.00	65.27 3.03 -13.33	71.82 3.41 -10.55	55.79 2.64 -9.19	55.01 3.06 -1.02	43.31 2.55 -4.82	38.78 2.04 -7.25	38.25 1.98 -4.80	35.76 1.99 -1.69



JERICO_RISE_WT_PWR 323719	29.19 -0.35 0.00	28.96 -0.38 0.00	29.79 -0.52 0.00	27.64 -0.45 0.00	27.75 -0.39 0.00	30.31 -0.49 0.00	28.87 -0.47 0.00	29.37 -0.39 0.00	35.46 -0.18 0.00	37.81 -0.19 0.00	42.12 -0.29 0.00	41.39 -0.29 0.00	44.30 -0.31 0.00	44.57 -0.41 0.00	45.97 -0.28 0.00	45.96 -0.28 0.00	48.37 -0.54 0.00	57.27 -0.58 0.00	43.66 -0.31 0.00	50.84 -0.10 0.00	35.47 -0.47 0.00	29.08 -0.41 0.00	31.13 -0.35 0.00	31.61 -0.48 0.00
KATONAH__115KV_46KV_TB4 355592	43.75 1.68 -12.52	39.67 1.79 -8.54	35.59 2.00 -3.28	34.90 1.85 -4.95	33.10 1.83 -3.13	34.38 2.00 -1.56	36.49 2.08 -5.07	40.95 2.11 -9.07	42.52 2.39 -4.49	46.39 2.47 -5.91	46.82 2.84 -1.57	51.05 2.63 -6.75	56.24 3.08 -8.55	61.01 3.19 -12.84	60.69 3.28 -11.16	74.05 3.65 -24.16	81.89 4.06 -28.92	85.89 4.92 -23.12	67.55 3.47 -20.12	56.71 3.57 -2.20	48.83 2.44 -10.45	47.18 1.98 -15.71	44.01 2.14 -10.39	38.15 2.41 -3.65
KCE_NY_1 323755	71.02 2.39 -39.08	58.35 2.35 -26.66	42.94 2.39 -10.24	45.73 2.19 -15.45	40.11 2.20 -9.77	38.10 2.40 -4.88	48.02 2.26 -16.42	65.24 2.29 -33.18	61.33 2.67 -23.02	73.50 2.89 -32.61	60.36 3.31 -14.64	84.33 3.34 -39.31	89.86 3.57 -41.68	112.20 3.69 -63.54	108.72 3.74 -58.73	169.47 3.65 -119.58	189.17 3.82 -136.44	181.07 4.39 -118.82	147.50 3.39 -100.15	82.17 3.87 -27.36	80.11 2.88 -41.30	97.14 2.39 -65.26	81.10 2.49 -47.14	47.37 2.57 -12.71
KCE_NY_6_ESR 323823	32.19 0.71 -1.93	31.10 0.44 -1.32	31.03 0.21 -0.51	28.69 -0.17 -0.76	28.40 -0.23 -0.48	31.05 0.00 -0.24	30.33 0.21 -0.78	31.25 0.09 -1.40	35.76 -0.57 -0.69	38.27 -0.65 -0.91	42.06 -0.59 -0.24	42.58 -0.12 -1.03	45.79 -0.04 -1.22	47.19 0.27 -1.94	48.09 0.14 -1.70	49.46 -0.46 -3.68	52.93 -0.44 -4.46	60.75 -0.64 -3.53	46.56 -0.48 -3.08	50.67 -0.61 -0.34	38.59 1.04 -1.61	32.78 0.86 -2.43	33.48 0.41 -1.61	33.33 0.67 -0.56
KEDC_PORT_JEFF_GT2 24210	67.26 2.93 -34.79	54.36 3.08 -21.93	51.82 3.51 -18.00	43.94 3.29 -12.56	42.33 3.32 -10.87	44.07 3.54 -9.72	42.22 3.64 -9.25	43.69 3.66 -10.27	61.91 4.13 -22.14	63.79 4.29 -21.50	71.66 4.49 -24.75	92.23 3.83 -46.72	94.34 3.93 -45.80	135.39 3.91 -86.50	184.72 4.02 -134.46	181.13 4.25 -130.65	237.14 4.70 -183.54	273.34 5.67 -209.81	255.55 4.22 -207.37	186.02 4.68 -130.40	123.17 3.42 -83.82	114.33 2.92 -81.92	87.49 3.59 -52.43	79.31 3.85 -43.37
KEDC_PORT_JEFF_GT3 24211	67.26 2.93 -34.79	54.36 3.08 -21.93	51.82 3.51 -18.00	43.94 3.29 -12.56	42.33 3.32 -10.87	44.07 3.54 -9.72	42.22 3.64 -9.25	43.69 3.66 -10.27	61.91 4.13 -22.14	63.79 4.29 -21.50	71.66 4.49 -24.75	92.23 3.83 -46.72	94.34 3.93 -45.80	135.39 3.91 -86.50	184.72 4.02 -134.46	181.13 4.25 -130.65	237.14 4.70 -183.54	273.34 5.67 -209.81	255.55 4.22 -207.37	186.02 4.68 -130.40	123.17 3.42 -83.82	114.33 2.92 -81.92	87.49 3.59 -52.43	79.31 3.85 -43.37
KEDC_GLWD_GT4 24219	66.11 1.77 -34.79	53.13 1.85 -21.93	50.41 2.12 -17.98	42.63 1.99 -12.54	41.02 2.03 -10.85	42.67 2.16 -9.71	40.82 2.26 -9.22	41.59 2.29 -9.54	60.33 2.57 -22.12	62.25 2.77 -21.47	69.98 3.09 -24.48	72.55 2.79 -28.08	74.45 3.08 -26.76	77.46 3.19 -29.29	82.80 3.28 -33.27	93.83 3.61 -43.98	113.85 4.06 -60.89	117.75 4.86 -55.03	92.58 3.52 -45.10	80.55 3.62 -25.99	72.73 2.51 -34.28	66.31 2.06 -34.75	47.73 2.36 -13.90	63.37 2.47 -28.81
KEDC_GLWD_GT5 24220	66.11 1.77 -34.79	53.13 1.85 -21.93	50.41 2.12 -17.98	42.63 1.99 -12.54	41.02 2.03 -10.85	42.67 2.16 -9.71	40.82 2.26 -9.22	41.59 2.29 -9.54	60.33 2.57 -22.12	62.25 2.77 -21.47	69.98 3.09 -24.48	72.55 2.79 -28.08	74.45 3.08 -26.76	77.46 3.19 -29.29	82.80 3.28 -33.27	93.83 3.61 -43.98	113.85 4.06 -60.89	117.75 4.86 -55.03	92.58 3.52 -45.10	80.55 3.62 -25.99	72.73 2.51 -34.28	66.31 2.06 -34.75	47.73 2.36 -13.90	63.37 2.47 -28.81
KENSICO____ 23655	43.23 1.42 -12.26	39.24 1.53 -8.37	35.31 1.79 -3.21	34.63 1.69 -4.85	32.93 1.72 -3.06	34.16 1.82 -1.53	36.21 1.91 -4.96	40.58 1.93 -8.88	42.18 2.14 -4.40	46.07 2.28 -5.79	46.53 2.59 -1.53	50.53 2.25 -6.60	55.45 2.45 -8.38	60.11 2.56 -12.57	59.86 2.68 -10.93	72.89 3.01 -23.65	80.67 3.42 -28.33	84.61 4.11 -22.65	66.62 2.95 -19.71	56.11 3.01 -2.16	48.26 2.08 -10.24	46.60 1.71 -15.39	43.61 1.95 -10.18	37.82 2.15 -3.58
KERHONKS_69_KV_TR1_REV_LBMP_G 345021	43.04 1.36 -12.13	39.00 1.38 -8.28	35.06 1.58 -3.18	34.35 1.46 -4.80	32.61 1.44 -3.03	33.87 1.54 -1.52	35.82 1.58 -4.89	39.80 1.55 -8.49	41.85 1.85 -4.36	45.79 2.05 -5.73	45.62 2.46 -0.75	48.80 2.17 -4.96	52.60 2.19 -5.81	56.92 1.80 -10.15	56.93 1.99 -8.70	67.95 2.27 -19.45	76.05 2.69 -24.45	79.40 3.24 -18.31	62.57 2.37 -16.24	53.80 2.34 -0.51	46.91 1.47 -9.50	45.03 1.50 -14.03	42.17 1.73 -8.97	37.44 1.89 -3.46
KIAC_JFK_GT1 23816	43.26 1.42 -12.30	39.23 1.50 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.26 1.91 -1.54	36.43 2.11 -4.98	40.84 2.17 -8.90	42.47 2.42 -4.41	46.31 2.51 -5.80	46.54 2.59 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.15 2.56 -12.61	59.89 2.68 -10.96	73.19 3.24 -23.72	81.08 3.77 -28.41	85.19 4.63 -22.71	67.02 3.30 -19.77	56.37 3.26 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.92 2.23 -10.21	38.05 2.37 -3.59
KIAC_JFK_GT2 23817	43.26 1.42 -12.30	39.23 1.50 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.26 1.91 -1.54	36.43 2.11 -4.98	40.84 2.17 -8.90	42.47 2.42 -4.41	46.31 2.51 -5.80	46.54 2.59 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.15 2.56 -12.61	59.89 2.68 -10.96	73.19 3.24 -23.72	81.08 3.77 -28.41	85.19 4.63 -22.71	67.02 3.30 -19.77	56.37 3.26 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.92 2.23 -10.21	38.05 2.37 -3.59
KIAC_JFK____ 323774	43.26 1.42 -12.30	39.23 1.50 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.26 1.91 -1.54	36.43 2.11 -4.98	40.84 2.17 -8.90	42.48 2.42 -4.41	46.35 2.55 -5.80	46.54 2.59 -1.54	50.51 2.21 -6.62	55.47 2.45 -8.41	60.19 2.61 -12.61	59.88 2.68 -10.96	73.19 3.24 -23.72	81.03 3.72 -28.41	85.19 4.63 -22.71	67.03 3.30 -19.77	56.37 3.26 -2.17	48.39 2.19 -10.27	46.67 1.74 -15.43	43.95 2.27 -10.21	37.96 2.28 -3.59
KINTIGH____ 23543	31.09 0.00 -1.54	30.22 -0.18 -1.05	30.32 -0.39 -0.40	28.05 -0.65 -0.61	27.82 -0.70 -0.38	30.42 -0.59 -0.19	29.61 -0.35 -0.62	30.37 -0.51 -1.12	35.02 -1.18 -0.55	37.40 -1.33 -0.73	41.20 -1.40 -0.19	41.46 -1.04 -0.82	44.56 -1.03 -0.97	45.67 -0.85 -1.55	46.58 -1.02 -1.36	47.79 -1.39 -2.94	50.90 -1.57 -3.56	58.76 -1.91 -2.82	45.01 -1.41 -2.46	49.63 -1.58 -0.27	37.40 0.18 -1.29	31.55 0.12 -1.94	32.56 -0.19 -1.28	32.44 -0.10 -0.45
KNTFSRNC_46_KV_46KV_LOAD 80397	29.58 0.03 0.00	29.32 -0.03 0.00	30.13 -0.18 0.00	27.95 -0.14 0.00	28.03 -0.11 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.93 0.29 0.00	38.31 0.30 0.00	42.62 0.21 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.15 0.18 0.00	46.57 0.32 0.00	46.51 0.28 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.22 0.26 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.02 -0.06 0.00



LACHUTE___HYDRO 323717	73.99 5.02 -39.42	61.11 4.87 -26.89	45.30 4.67 -10.33	47.86 4.19 -15.58	42.13 4.14 -9.85	40.42 4.68 -4.93	50.26 4.40 -16.52	67.29 4.61 -32.92	63.28 5.52 -22.12	75.08 5.93 -31.16	62.88 6.92 -13.55	86.48 7.38 -37.42	92.75 7.81 -40.33	114.39 8.14 -61.27	110.86 8.28 -56.34	169.24 7.72 -115.28	188.77 7.82 -132.04	181.02 8.97 -114.20	147.41 6.94 -96.51	83.88 7.90 -25.04	82.46 5.89 -40.64	98.34 4.95 -63.89	82.09 4.84 -45.78	49.58 4.81 -12.68
LAWRNCV_115KV_TB1 80681	29.22 -0.33 0.00	29.02 -0.32 0.00	29.82 -0.48 0.00	27.70 -0.39 0.00	27.64 -0.51 0.00	30.01 -0.80 0.00	28.40 -0.94 0.00	28.84 -0.92 0.00	34.68 -0.96 0.00	37.01 -0.99 0.00	41.26 -1.15 0.00	40.60 -1.08 0.00	43.36 -1.25 0.00	43.58 -1.39 0.00	45.00 -1.25 0.00	45.03 -1.20 0.00	47.39 -1.52 0.00	55.94 -1.91 0.00	42.60 -1.36 0.00	49.67 -1.27 0.00	34.60 -1.33 0.00	28.40 -1.09 0.00	30.65 -0.82 0.00	31.09 -0.99 0.00
LEDERLE___ 23769	42.62 1.39 -11.69	38.76 1.44 -7.97	35.07 1.70 -3.06	34.29 1.57 -4.62	32.64 1.58 -2.92	33.96 1.69 -1.46	35.86 1.79 -4.73	40.01 1.79 -8.46	41.83 2.00 -4.19	45.68 2.17 -5.51	46.33 2.46 -1.46	50.06 2.17 -6.21	54.31 2.32 -7.38	59.14 2.43 -11.74	59.06 2.54 -10.28	71.30 2.82 -22.25	79.10 3.23 -26.97	83.03 3.82 -21.35	65.29 2.73 -18.60	55.80 2.80 -2.06	47.60 1.90 -9.76	45.75 1.59 -14.67	42.97 1.79 -9.71	37.49 1.99 -3.41
LIGHTHSE_115KV_TB6 355974	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.87 -0.22 0.00	27.89 -0.25 0.00	30.56 -0.25 0.00	28.99 -0.35 0.00	29.46 -0.30 0.00	35.07 -0.57 0.00	37.47 -0.53 0.00	41.82 -0.59 0.00	41.22 -0.46 0.00	44.12 -0.49 0.00	44.48 -0.49 0.00	45.64 -0.60 0.00	45.59 -0.65 0.00	48.17 -0.73 0.00	57.04 -0.81 0.00	43.26 -0.70 0.00	50.23 -0.71 0.00	35.68 -0.25 0.00	29.32 -0.18 0.00	31.16 -0.31 0.00	31.70 -0.39 0.00
LINDEN COGEN___ 23786	34.96 1.12 -4.29	34.93 1.26 -4.32	34.84 1.61 -2.92	34.47 1.52 -4.86	32.82 1.60 -3.07	33.98 1.63 -1.54	34.87 1.76 -3.77	34.87 1.76 -3.35	35.00 1.89 2.52	35.19 2.09 4.90	36.76 2.29 7.94	36.68 1.92 6.92	39.42 2.14 7.33	39.86 2.25 7.36	39.64 2.31 8.92	48.43 2.73 0.53	58.83 3.13 -6.79	53.47 3.82 8.20	41.64 2.68 5.00	37.78 2.65 15.80	36.83 1.80 0.90	36.59 1.44 -5.65	36.76 1.79 -3.50	35.45 1.89 -1.47
LINDHRST_69_KV_BK1 356055	67.17 2.84 -34.79	54.21 2.93 -21.93	51.57 3.27 -17.99	43.67 3.03 -12.55	42.07 3.07 -10.86	43.82 3.30 -9.72	41.91 3.34 -9.23	43.26 3.39 -10.11	61.62 3.85 -22.13	63.59 4.10 -21.48	71.28 4.37 -24.50	75.05 3.92 -29.45	76.96 4.19 -28.16	82.74 4.27 -33.50	91.40 4.44 -40.71	101.31 4.72 -50.35	124.05 5.23 -69.91	126.44 6.19 -62.40	97.40 4.62 -48.82	89.70 5.09 -33.66	77.53 3.67 -37.93	70.78 3.07 -38.22	50.54 3.52 -15.54	65.78 3.69 -30.00
LIPA_MISC_IPP 23656	67.11 2.78 -34.79	54.27 2.99 -21.93	51.79 3.49 -18.00	43.94 3.29 -12.56	42.36 3.35 -10.87	44.04 3.51 -9.72	42.22 3.64 -9.24	43.67 3.63 -10.27	61.81 4.03 -22.14	63.64 4.14 -21.49	71.57 4.45 -24.71	89.69 4.13 -43.89	91.93 4.42 -42.90	127.11 4.32 -77.82	169.78 4.44 -119.10	168.40 4.67 -117.49	218.91 5.09 -164.92	234.45 6.02 -170.58	169.50 4.48 -121.06	170.63 5.15 -114.55	116.04 3.81 -76.30	107.38 3.13 -74.76	68.62 3.59 -33.56	77.07 3.85 -41.13
LISF___SOLAR 323691	67.17 2.84 -34.79	54.33 3.05 -21.93	51.85 3.54 -18.00	43.99 3.34 -12.56	42.39 3.38 -10.87	44.10 3.57 -9.72	42.28 3.70 -9.24	43.69 3.66 -10.27	61.84 4.06 -22.14	63.75 4.26 -21.50	71.70 4.58 -24.71	90.01 4.25 -44.08	92.26 4.55 -43.10	127.86 4.50 -78.39	170.98 4.62 -120.11	169.41 4.81 -118.36	220.30 5.24 -166.15	238.55 6.19 -174.51	219.57 4.61 -171.00	171.84 5.30 -115.60	116.65 3.92 -76.80	107.94 3.22 -75.23	82.12 3.68 -46.97	77.23 3.85 -41.29
LITTLE FALLS___HYD 24013	29.22 -0.33 0.00	29.02 -0.32 0.00	29.98 -0.33 0.00	27.78 -0.31 0.00	27.83 -0.31 0.00	30.47 -0.34 0.00	28.99 -0.35 0.00	29.43 -0.33 0.00	35.28 -0.36 0.00	37.85 -0.15 0.00	42.28 -0.13 0.00	41.60 -0.08 0.00	44.52 -0.09 0.00	44.75 -0.22 0.00	45.87 -0.37 0.00	45.82 -0.42 0.00	48.52 -0.39 0.00	56.98 -0.87 0.00	43.30 -0.66 0.00	50.18 -0.76 0.00	35.40 -0.54 0.00	29.11 -0.38 0.00	31.06 -0.41 0.00	31.67 -0.42 0.00
LITTLRIV_115KV_TB1 356100	29.55 0.00 0.00	29.34 0.00 0.00	30.10 -0.21 0.00	27.95 -0.14 0.00	27.92 -0.23 0.00	30.32 -0.49 0.00	28.66 -0.67 0.00	29.08 -0.68 0.00	34.96 -0.68 0.00	37.47 -0.53 0.00	41.73 -0.68 0.00	41.18 -0.50 0.00	43.99 -0.62 0.00	44.12 -0.85 0.00	45.55 -0.69 0.00	45.59 -0.65 0.00	47.98 -0.93 0.00	56.46 -1.39 0.00	42.99 -0.97 0.00	50.18 -0.76 0.00	34.96 -0.97 0.00	28.70 -0.80 0.00	30.94 -0.54 0.00	31.38 -0.71 0.00
LI_NEWBRDGE___DRP 323616	66.32 1.98 -34.79	53.36 2.08 -21.93	50.68 2.39 -17.98	42.88 2.25 -12.54	41.30 2.31 -10.85	42.95 2.43 -9.71	41.06 2.49 -9.23	42.63 2.53 -10.34	60.54 2.78 -22.12	62.44 2.96 -21.48	70.03 3.14 -24.48	72.51 2.75 -28.08	74.32 2.94 -26.76	77.28 3.01 -29.29	82.61 3.10 -33.27	93.64 3.42 -43.98	113.66 3.86 -60.89	117.52 4.63 -55.03	92.44 3.38 -45.10	80.49 3.57 -25.99	72.77 2.55 -34.28	66.34 2.09 -34.75	47.89 2.52 -13.90	63.49 2.76 -28.64
LOCKPORT_115KV_TB60_63_64 80432	31.25 0.00 -1.70	30.27 -0.23 -1.16	30.27 -0.48 -0.45	27.98 -0.79 -0.67	27.72 -0.84 -0.43	30.28 -0.74 -0.21	29.59 -0.44 -0.69	30.31 -0.68 -1.23	34.79 -1.46 -0.61	37.13 -1.67 -0.80	40.93 -1.70 -0.21	41.33 -1.25 -0.91	44.44 -1.25 -1.08	45.61 -1.08 -1.71	46.45 -1.29 -1.50	47.72 -1.76 -3.24	50.84 -2.01 -3.94	58.60 -2.37 -3.12	44.96 -1.71 -2.72	49.31 -1.94 -0.30	37.54 0.18 -1.42	31.84 0.21 -2.14	32.76 -0.13 -1.42	32.75 0.16 -0.50
LOCKPORT___CC1 323769	31.20 -0.06 -1.72	30.22 -0.29 -1.17	30.21 -0.54 -0.45	27.90 -0.87 -0.68	27.62 -0.96 -0.43	30.22 -0.80 -0.21	29.51 -0.53 -0.70	30.26 -0.74 -1.25	34.73 -1.53 -0.62	37.03 -1.79 -0.81	40.80 -1.82 -0.22	41.22 -1.37 -0.91	44.27 -1.43 -1.09	45.49 -1.21 -1.73	46.37 -1.39 -1.51	47.57 -1.94 -3.28	50.87 -2.01 -3.97	58.51 -2.49 -3.14	44.85 -1.84 -2.74	49.15 -2.09 -0.30	37.44 0.07 -1.44	31.80 0.15 -2.16	32.71 -0.19 -1.43	32.75 0.16 -0.50
LOCKPORT___CC2 323770	31.20 -0.06 -1.72	30.22 -0.29 -1.17	30.21 -0.54 -0.45	27.90 -0.87 -0.68	27.62 -0.96 -0.43	30.22 -0.80 -0.21	29.51 -0.53 -0.70	30.26 -0.74 -1.25	34.73 -1.53 -0.62	37.03 -1.79 -0.81	40.80 -1.82 -0.22	41.22 -1.37 -0.91	44.27 -1.43 -1.09	45.49 -1.21 -1.73	46.37 -1.39 -1.51	47.57 -1.94 -3.28	50.87 -2.01 -3.97	58.51 -2.49 -3.14	44.85 -1.84 -2.74	49.15 -2.09 -0.30	37.44 0.07 -1.44	31.80 0.15 -2.16	32.71 -0.19 -1.43	32.75 0.16 -0.50
LOCKPORT___CC3 323771	31.20 -0.06 -1.72	30.22 -0.29 -1.17	30.21 -0.54 -0.45	27.90 -0.87 -0.68	27.62 -0.96 -0.43	30.22 -0.80 -0.21	29.51 -0.53 -0.70	30.26 -0.74 -1.25	34.73 -1.53 -0.62	37.03 -1.79 -0.81	40.80 -1.82 -0.22	41.22 -1.37 -0.91	44.27 -1.43 -1.09	45.49 -1.21 -1.73	46.37 -1.39 -1.51	47.57 -1.94 -3.28	50.87 -2.01 -3.97	58.51 -2.49 -3.14	44.85 -1.84 -2.74	49.15 -2.09 -0.30	37.44 0.07 -1.44	31.80 0.15 -2.16	32.71 -0.19 -1.43	32.75 0.16 -0.50



LONG_LAKE_PHOENIX 24014	29.19 -0.35 0.00	28.96 -0.38 0.00	29.82 -0.48 0.00	27.59 -0.51 0.00	27.64 -0.51 0.00	30.32 -0.49 0.00	28.87 -0.47 0.00	29.32 -0.45 0.00	34.93 -0.71 0.00	37.32 -0.68 0.00	41.69 -0.72 0.00	41.05 -0.63 0.00	43.99 -0.62 0.00	44.43 -0.54 0.00	45.55 -0.69 0.00	45.54 -0.69 0.00	48.13 -0.78 0.00	56.87 -0.98 0.00	43.17 -0.79 0.00	50.02 -0.92 0.00	35.54 -0.40 0.00	29.20 -0.29 0.00	31.06 -0.41 0.00	31.64 -0.45 0.00
LOVETT___3 23632	42.51 1.21 -11.76	38.65 1.29 -8.02	34.94 1.55 -3.08	34.20 1.46 -4.65	32.54 1.46 -2.94	33.85 1.57 -1.47	35.74 1.64 -4.76	39.94 1.67 -8.51	41.67 1.82 -4.21	45.49 1.94 -5.55	46.09 2.21 -1.47	49.85 1.92 -6.25	54.09 2.05 -7.42	58.94 2.16 -11.81	58.85 2.27 -10.34	71.15 2.54 -22.37	78.96 2.93 -27.12	82.86 3.53 -21.48	65.22 2.55 -18.71	55.56 2.55 -2.07	47.51 1.76 -9.81	45.72 1.47 -14.75	42.90 1.67 -9.76	37.38 1.86 -3.43
LOVETT___4 23642	42.51 1.21 -11.76	38.65 1.29 -8.02	34.94 1.55 -3.08	34.20 1.46 -4.65	32.54 1.46 -2.94	33.85 1.57 -1.47	35.74 1.64 -4.76	39.94 1.67 -8.51	41.67 1.82 -4.21	45.49 1.94 -5.55	46.09 2.21 -1.47	49.85 1.92 -6.25	54.09 2.05 -7.42	58.94 2.16 -11.81	58.85 2.27 -10.34	71.15 2.54 -22.37	78.96 2.93 -27.12	82.86 3.53 -21.48	65.22 2.55 -18.71	55.56 2.55 -2.07	47.51 1.76 -9.81	45.72 1.47 -14.75	42.90 1.67 -9.76	37.38 1.86 -3.43
LOVETT___5 23593	42.51 1.21 -11.76	38.65 1.29 -8.02	34.94 1.55 -3.08	34.20 1.46 -4.65	32.54 1.46 -2.94	33.85 1.57 -1.47	35.74 1.64 -4.76	39.94 1.67 -8.51	41.67 1.82 -4.21	45.49 1.94 -5.55	46.09 2.21 -1.47	49.85 1.92 -6.25	54.09 2.05 -7.42	58.94 2.16 -11.81	58.85 2.27 -10.34	71.15 2.54 -22.37	78.96 2.93 -27.12	82.86 3.53 -21.48	65.22 2.55 -18.71	55.56 2.55 -2.07	47.51 1.76 -9.81	45.72 1.47 -14.75	42.90 1.67 -9.76	37.38 1.86 -3.43
LOWER RAQUET___HYD 24057	29.19 -0.35 0.00	28.99 -0.35 0.00	29.79 -0.52 0.00	27.64 -0.45 0.00	27.61 -0.54 0.00	29.89 -0.92 0.00	28.28 -1.05 0.00	28.72 -1.04 0.00	34.50 -1.14 0.00	36.86 -1.14 0.00	41.05 -1.36 0.00	40.39 -1.29 0.00	43.14 -1.47 0.00	43.36 -1.62 0.00	44.76 -1.48 0.00	44.85 -1.39 0.00	47.15 -1.76 0.00	55.65 -2.20 0.00	42.38 -1.58 0.00	49.41 -1.53 0.00	34.46 -1.47 0.00	28.26 -1.24 0.00	30.56 -0.91 0.00	31.00 -1.09 0.00
LOWER___HUDSON 24059	66.05 1.62 -34.87	54.78 1.64 -23.79	41.20 1.76 -9.14	43.51 1.63 -13.79	38.49 1.79 -8.71	36.95 1.79 -4.36	46.28 1.79 -15.16	67.46 1.82 -35.88	70.69 2.07 -32.99	89.02 2.24 -48.77	71.69 2.50 -26.78	104.45 2.42 -60.36	103.85 2.63 -56.61	136.23 2.65 -88.60	134.24 2.73 -85.27	216.11 2.73 -167.14	236.89 2.88 -185.09	231.36 3.41 -170.09	187.09 2.59 -140.53	107.20 2.95 -53.31	86.53 2.19 -48.41	111.40 1.80 -80.11	95.55 1.92 -62.16	47.05 2.02 -12.94
LOWVILLE_115KV_TB2 356335	29.99 0.44 0.00	29.76 0.41 0.00	30.52 0.21 0.00	28.29 0.20 0.00	28.23 0.08 0.00	30.84 0.03 0.00	29.16 -0.18 0.00	29.61 -0.15 0.00	35.43 -0.21 0.00	37.89 -0.11 0.00	42.33 -0.08 0.00	41.72 0.04 0.00	44.57 -0.04 0.00	44.84 -0.13 0.00	46.11 -0.14 0.00	46.10 -0.14 0.00	48.76 -0.15 0.00	57.62 -0.23 0.00	43.79 -0.18 0.00	50.94 0.00 0.00	35.97 0.04 0.00	29.49 0.00 0.00	31.50 0.03 0.00	31.96 -0.13 0.00
LUTHERFT_115KV_GLOB_FND_222 355753	70.99 2.36 -39.08	58.35 2.35 -26.66	42.91 2.36 -10.24	45.71 2.16 -15.45	40.08 2.17 -9.77	38.07 2.37 -4.88	48.02 2.26 -16.42	65.24 2.29 -33.18	52.87 2.67 -14.56	60.01 2.85 -19.16	60.31 3.27 -14.64	84.28 3.29 -39.31	89.82 3.52 -41.68	112.16 3.64 -63.54	108.68 3.70 -58.73	169.43 3.61 -119.58	189.12 3.77 -136.44	181.01 4.34 -118.82	147.45 3.34 -100.15	82.12 3.82 -27.36	80.07 2.84 -41.30	97.14 2.39 -65.26	81.07 2.45 -47.14	47.33 2.53 -12.71
LUTHERNY_35_KV_BK2 355980	71.02 2.39 -39.08	58.35 2.35 -26.66	42.94 2.39 -10.24	45.73 2.19 -15.45	40.10 2.20 -9.77	38.10 2.40 -4.88	48.02 2.26 -16.42	65.24 2.29 -33.18	52.87 2.67 -14.56	60.05 2.89 -19.16	60.35 3.31 -14.64	84.33 3.33 -39.31	89.82 3.52 -41.68	112.20 3.69 -63.54	108.72 3.75 -58.73	169.47 3.65 -119.58	189.17 3.81 -136.44	181.07 4.40 -118.82	147.50 3.38 -100.15	82.17 3.87 -27.36	80.11 2.87 -41.30	97.14 2.39 -65.26	81.10 2.49 -47.14	47.37 2.57 -12.71
LWR___OSWEGATCHIE_HYD 23850	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.90 -0.20 0.00	27.83 -0.31 0.00	30.29 -0.52 0.00	28.63 -0.70 0.00	29.08 -0.68 0.00	34.82 -0.82 0.00	37.20 -0.80 0.00	41.48 -0.93 0.00	40.89 -0.79 0.00	43.63 -0.98 0.00	43.90 -1.08 0.00	45.18 -1.06 0.00	45.22 -1.02 0.00	47.73 -1.17 0.00	56.46 -1.39 0.00	42.95 -1.01 0.00	50.02 -0.92 0.00	35.11 -0.83 0.00	28.82 -0.68 0.00	30.94 -0.54 0.00	31.38 -0.71 0.00
LYONS_FALL_HYD 23570	30.20 0.65 0.00	29.96 0.62 0.00	30.77 0.46 0.00	28.51 0.42 0.00	28.51 0.36 0.00	31.18 0.37 0.00	29.54 0.21 0.00	30.03 0.27 0.00	36.00 0.36 0.00	38.53 0.53 0.00	43.09 0.68 0.00	42.56 0.88 0.00	45.42 0.80 0.00	45.69 0.72 0.00	46.98 0.74 0.00	46.88 0.65 0.00	49.64 0.73 0.00	58.55 0.70 0.00	44.45 0.48 0.00	51.60 0.66 0.00	36.47 0.54 0.00	29.88 0.38 0.00	31.85 0.38 0.00	32.38 0.29 0.00
MADISON___COUNTY_LFGE 323628	30.52 0.98 0.00	30.28 0.94 0.00	31.13 0.82 0.00	28.82 0.73 0.00	28.88 0.73 0.00	31.64 0.83 0.00	30.01 0.67 0.00	30.54 0.77 0.00	36.60 0.96 0.00	39.14 1.14 0.00	43.81 1.40 0.00	43.30 1.63 0.00	46.22 1.61 0.00	46.55 1.57 0.00	47.82 1.57 0.00	47.67 1.43 0.00	50.47 1.57 0.00	59.53 1.68 0.00	45.15 1.19 0.00	52.32 1.38 0.00	37.05 1.11 0.00	30.35 0.86 0.00	32.29 0.82 0.00	32.83 0.74 0.00
MALONE___115KV_TB1 356076	29.37 -0.18 0.00	29.17 -0.18 0.00	29.98 -0.33 0.00	27.81 -0.28 0.00	27.83 -0.31 0.00	30.41 -0.40 0.00	28.96 -0.38 0.00	29.46 -0.30 0.00	35.53 -0.11 0.00	37.93 -0.08 0.00	42.20 -0.21 0.00	41.51 -0.17 0.00	44.39 -0.22 0.00	44.66 -0.31 0.00	46.11 -0.14 0.00	46.10 -0.14 0.00	48.42 -0.49 0.00	57.22 -0.64 0.00	43.65 -0.31 0.00	50.94 0.00 0.00	35.54 -0.40 0.00	29.14 -0.35 0.00	31.22 -0.25 0.00	31.67 -0.42 0.00
MAPLEWOD_115KV_TB3 80458	62.59 1.68 -31.36	52.41 1.67 -21.39	40.28 1.76 -8.22	42.09 1.60 -12.40	37.58 1.60 -7.84	36.48 1.76 -3.92	43.54 1.61 -12.58	49.85 1.64 -18.45	48.72 1.92 -11.16	54.74 2.05 -14.68	38.36 2.33 6.38	43.38 2.29 0.60	64.37 2.45 -17.30	60.07 2.47 -12.62	54.66 2.54 -5.87	69.45 2.50 -20.71	78.24 2.69 -26.64	75.53 3.18 -14.50	62.12 2.37 -15.78	37.45 2.75 16.24	55.94 2.01 -17.99	54.76 1.62 -23.64	44.58 1.73 -11.38	42.03 1.80 -8.14
MAPLE RIDGE_WT_1 323574	29.10 -0.44 0.00	28.91 -0.44 0.00	29.82 -0.49 0.00	27.70 -0.39 0.00	27.78 -0.37 0.00	30.41 -0.40 0.00	29.04 -0.29 0.00	29.58 -0.18 0.00	35.46 -0.18 0.00	37.81 -0.19 0.00	42.16 -0.25 0.00	41.43 -0.25 0.00	44.25 -0.36 0.00	44.61 -0.36 0.00	45.78 -0.46 0.00	45.73 -0.51 0.00	48.42 -0.49 0.00	57.33 -0.52 0.00	43.61 -0.35 0.00	50.48 -0.46 0.00	35.58 -0.36 0.00	29.11 -0.38 0.00	31.00 -0.47 0.00	31.64 -0.45 0.00



MAPLE_RIDGE_WT_2 323611	29.10 -0.44 0.00	28.91 -0.44 0.00	29.82 -0.49 0.00	27.70 -0.39 0.00	27.78 -0.37 0.00	30.41 -0.40 0.00	29.04 -0.29 0.00	29.58 -0.18 0.00	35.46 -0.18 0.00	37.81 -0.19 0.00	42.16 -0.25 0.00	41.43 -0.25 0.00	44.25 -0.36 0.00	44.61 -0.36 0.00	45.78 -0.46 0.00	45.73 -0.51 0.00	48.42 -0.49 0.00	57.33 -0.52 0.00	43.61 -0.35 0.00	50.48 -0.46 0.00	35.58 -0.36 0.00	29.11 -0.38 0.00	31.00 -0.47 0.00	31.64 -0.45 0.00
MARBLE_RIVER_WT_PWR 323696	29.28 -0.27 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.81 -0.34 0.00	30.38 -0.43 0.00	28.96 -0.38 0.00	29.46 -0.30 0.00	35.57 -0.07 0.00	37.93 -0.08 0.00	42.24 -0.17 0.00	41.51 -0.17 0.00	44.39 -0.22 0.00	44.71 -0.27 0.00	46.06 -0.18 0.00	46.10 -0.14 0.00	48.51 -0.39 0.00	57.39 -0.46 0.00	43.79 -0.18 0.00	50.94 0.00 0.00	35.61 -0.32 0.00	29.20 -0.29 0.00	31.22 -0.25 0.00	31.70 -0.38 0.00
MARSHVLE_115KV_TB1 80742	67.73 3.66 -34.52	56.44 3.55 -23.55	42.87 3.52 -9.04	44.94 3.20 -13.65	39.98 3.21 -8.63	38.73 3.60 -4.31	46.92 3.37 -14.21	58.62 3.42 -25.44	52.12 3.88 -12.60	58.53 3.95 -16.58	51.38 4.58 -4.39	65.54 4.83 -19.03	74.68 5.18 -24.89	86.55 5.22 -36.36	82.69 4.95 -31.49	119.34 4.95 -68.16	135.39 5.28 -81.20	129.48 6.42 -65.21	105.65 4.97 -56.73	62.94 5.81 -6.19	69.68 4.42 -29.32	77.20 3.63 -44.08	64.26 3.62 -29.17	46.00 3.66 -10.25
MARSH_HILL_WT_PWR 323713	33.21 1.21 -2.45	32.04 1.03 -1.67	31.74 0.79 -0.64	29.54 0.48 -0.97	29.23 0.48 -0.61	31.89 0.77 -0.31	31.18 0.85 -0.99	32.31 0.77 -1.78	36.84 0.32 -0.88	39.54 0.38 -1.16	43.31 0.59 -0.31	43.94 0.96 -1.31	47.06 0.89 -1.55	48.61 1.17 -2.47	49.38 0.97 -2.16	51.47 0.56 -4.68	55.26 0.68 -5.67	62.98 0.64 -4.49	48.40 0.53 -3.91	52.03 0.66 -0.43	39.67 1.69 -2.05	33.96 1.39 -3.08	34.58 1.07 -2.04	34.02 1.22 -0.72
MCINTYRE_115KV_TB2 80467	29.75 0.21 0.00	29.55 0.21 0.00	30.28 -0.03 0.00	28.12 0.03 0.00	28.14 0.00 0.00	30.59 -0.22 0.00	28.93 -0.41 0.00	29.35 -0.42 0.00	35.32 -0.32 0.00	37.77 -0.23 0.00	42.07 -0.34 0.00	41.51 -0.17 0.00	44.35 -0.27 0.00	44.52 -0.45 0.00	45.97 -0.28 0.00	46.01 -0.23 0.00	48.47 -0.44 0.00	57.04 -0.81 0.00	43.48 -0.48 0.00	50.74 -0.20 0.00	35.40 -0.54 0.00	29.05 -0.44 0.00	31.25 -0.22 0.00	31.67 -0.42 0.00
MECO____69_KV_BK1 80468	70.92 4.46 -36.91	58.86 4.34 -25.18	44.16 4.18 -9.67	46.48 3.79 -14.59	41.14 3.77 -9.22	39.67 4.25 -4.61	48.50 3.96 -15.20	60.84 3.87 -27.20	53.43 4.31 -13.47	60.75 5.02 -17.73	52.88 5.77 -4.70	68.33 6.29 -20.36	78.05 6.78 -26.66	90.71 6.84 -38.90	86.64 6.71 -33.69	125.94 6.80 -72.91	143.04 7.29 -86.85	135.01 7.41 -69.75	110.44 5.80 -60.68	64.33 6.78 -6.62	72.61 5.32 -31.36	80.92 4.28 -47.15	66.94 4.28 -31.19	47.32 4.27 -10.96
MENANDS__115KV_TB5 355628	60.49 1.27 -29.67	50.85 1.26 -20.24	39.48 1.39 -7.77	41.12 1.29 -11.73	36.85 1.29 -7.41	35.93 1.42 -3.71	42.46 1.29 -11.83	47.44 1.28 -16.40	47.63 1.50 -10.49	53.37 1.56 -13.81	35.78 1.78 8.41	38.68 1.67 4.66	61.46 1.78 -15.06	53.97 1.75 -7.24	48.39 1.80 -0.34	58.18 1.80 -10.14	65.30 1.96 -14.43	63.68 2.37 -3.46	52.46 1.76 -6.74	32.61 2.04 20.37	52.50 1.51 -15.05	49.33 1.21 -18.62	40.14 1.35 -7.32	40.94 1.41 -7.44
MG INDUSTRY__DRP 24185	53.62 1.36 -22.71	46.19 1.35 -15.49	37.72 1.45 -5.95	38.45 1.38 -8.98	35.17 1.35 -5.68	35.13 1.48 -2.84	39.78 1.35 -9.09	44.67 1.34 -13.57	45.20 1.50 -8.06	50.21 1.60 -10.61	39.99 1.61 4.03	41.68 1.50 1.50	42.92 1.56 3.26	50.54 1.57 -3.99	49.80 1.57 -1.99	57.58 1.57 -9.77	71.44 1.66 -20.87	66.69 2.02 -6.82	54.04 1.54 -8.54	42.27 1.83 10.50	50.93 1.55 -13.45	48.72 1.27 -17.95	41.90 1.38 -9.04	39.47 1.44 -5.94
MID__OSWEGATCHIE_HYD 23849	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.90 -0.20 0.00	27.83 -0.31 0.00	30.29 -0.52 0.00	28.63 -0.70 0.00	29.08 -0.68 0.00	34.82 -0.82 0.00	37.20 -0.80 0.00	41.48 -0.93 0.00	40.89 -0.79 0.00	43.63 -0.98 0.00	43.90 -1.08 0.00	45.18 -1.06 0.00	45.22 -1.02 0.00	47.73 -1.17 0.00	56.46 -1.39 0.00	42.95 -1.01 0.00	50.02 -0.92 0.00	35.11 -0.83 0.00	28.82 -0.68 0.00	30.94 -0.54 0.00	31.38 -0.71 0.00
MID__RAQUETTE_HYD 23851	29.19 -0.35 0.00	28.99 -0.35 0.00	29.79 -0.52 0.00	27.64 -0.45 0.00	27.55 -0.59 0.00	29.88 -0.92 0.00	28.28 -1.06 0.00	28.72 -1.04 0.00	34.50 -1.14 0.00	36.86 -1.14 0.00	41.05 -1.36 0.00	40.39 -1.29 0.00	43.14 -1.47 0.00	43.36 -1.62 0.00	44.77 -1.48 0.00	44.80 -1.43 0.00	47.15 -1.76 0.00	55.65 -2.20 0.00	42.38 -1.58 0.00	49.41 -1.53 0.00	34.46 -1.47 0.00	28.25 -1.24 0.00	30.56 -0.91 0.00	31.00 -1.09 0.00
MILLIKEN__1 23584	32.96 0.95 -2.47	31.94 0.91 -1.69	31.74 0.79 -0.65	29.72 0.65 -0.98	29.41 0.65 -0.62	31.95 0.83 -0.31	31.07 0.73 -1.00	32.36 0.80 -1.79	37.24 0.71 -0.89	40.01 0.84 -1.17	43.70 0.98 -0.31	44.16 1.17 -1.32	47.43 1.25 -1.56	48.81 1.35 -2.49	49.67 1.25 -2.18	52.15 1.20 -4.71	55.89 1.27 -5.71	63.82 1.45 -4.52	49.04 1.14 -3.94	52.70 1.32 -0.44	39.29 1.29 -2.07	33.63 1.03 -3.10	34.44 0.91 -2.05	33.68 0.87 -0.72
MILLIKEN__2 23585	32.96 0.95 -2.47	31.94 0.91 -1.69	31.74 0.79 -0.65	29.72 0.65 -0.98	29.41 0.65 -0.62	31.95 0.83 -0.31	31.07 0.73 -1.00	32.36 0.80 -1.79	37.24 0.71 -0.89	40.01 0.84 -1.17	43.70 0.98 -0.31	44.16 1.17 -1.32	47.43 1.25 -1.56	48.81 1.35 -2.49	49.67 1.25 -2.18	52.15 1.20 -4.71	55.89 1.27 -5.71	63.82 1.45 -4.52	49.04 1.14 -3.94	52.70 1.32 -0.44	39.29 1.29 -2.07	33.63 1.03 -3.10	34.44 0.91 -2.05	33.68 0.87 -0.72
MILLIKEN__DIESEL 23629	32.96 0.95 -2.47	31.94 0.91 -1.69	31.74 0.79 -0.65	29.72 0.65 -0.98	29.41 0.65 -0.62	31.95 0.83 -0.31	31.07 0.73 -1.00	32.36 0.80 -1.79	37.24 0.71 -0.89	40.01 0.84 -1.17	43.70 0.98 -0.31	44.16 1.17 -1.32	47.43 1.25 -1.56	48.81 1.35 -2.49	49.67 1.25 -2.18	52.15 1.20 -4.71	55.89 1.27 -5.71	63.82 1.45 -4.52	49.04 1.14 -3.94	52.70 1.32 -0.44	39.29 1.29 -2.07	33.63 1.03 -3.10	34.44 0.91 -2.05	33.68 0.87 -0.72
MILLSEAT__LFGE 323607	31.66 0.47 -1.64	30.76 0.29 -1.12	30.74 0.00 -0.43	28.46 -0.28 -0.65	28.10 -0.45 -0.41	30.77 -0.25 -0.20	30.06 0.06 -0.66	30.86 -0.09 -1.19	35.48 -0.75 -0.59	37.94 -0.84 -0.78	41.81 -0.81 -0.21	42.22 -0.33 -0.87	45.29 -0.36 -1.04	46.49 -0.13 -1.65	47.37 -0.32 -1.45	48.49 -0.88 -3.13	51.72 -0.98 -3.79	59.64 -1.22 -3.00	45.70 -0.88 -2.61	50.36 -0.87 -0.29	38.17 0.86 -1.37	32.29 0.74 -2.06	33.21 0.38 -1.36	33.21 0.64 -0.48
MILLWOOD_138_KV_38W41_REV_LBMP_H 345005	43.14 1.39 -12.20	39.14 1.47 -8.32	35.23 1.73 -3.20	34.55 1.63 -4.82	32.85 1.66 -3.05	34.09 1.76 -1.53	36.12 1.85 -4.94	40.47 1.88 -8.84	42.08 2.07 -4.38	45.93 2.17 -5.76	46.40 2.46 -1.53	50.42 2.17 -6.57	55.32 2.36 -8.34	59.96 2.47 -12.51	59.66 2.54 -10.87	72.63 2.87 -23.53	80.38 3.28 -28.19	84.32 3.93 -22.54	66.39 2.81 -19.61	55.99 2.90 -2.15	48.13 2.01 -10.19	46.46 1.65 -15.31	43.49 1.89 -10.13	37.73 2.09 -3.56



MILLWOOD_13_KV_LOAD 356217	43.26 1.51 -12.20	39.28 1.61 -8.32	35.36 1.85 -3.20	34.66 1.74 -4.82	32.91 1.72 -3.05	34.18 1.85 -1.53	36.21 1.94 -4.94	40.56 1.96 -8.84	42.23 2.21 -4.38	46.08 2.32 -5.76	46.57 2.63 -1.53	50.58 2.33 -6.57	55.63 2.68 -8.34	60.23 2.74 -12.51	59.98 2.87 -10.87	72.96 3.19 -23.53	80.72 3.62 -28.19	84.73 4.34 -22.54	66.70 3.12 -19.61	56.30 3.21 -2.15	48.31 2.19 -10.19	46.61 1.80 -15.31	43.59 1.98 -10.13	37.86 2.21 -3.56
MODEL_CITY_ENERGY 24167	31.05 -0.24 -1.74	30.06 -0.47 -1.19	30.04 -0.73 -0.46	27.77 -1.01 -0.69	27.48 -1.10 -0.43	30.07 -0.96 -0.22	29.37 -0.67 -0.71	30.07 -0.95 -1.26	34.52 -1.75 -0.63	36.81 -2.02 -0.82	40.55 -2.08 -0.22	40.98 -1.63 -0.93	43.97 -1.74 -1.10	45.20 -1.53 -1.75	46.07 -1.71 -1.53	47.34 -2.22 -3.32	50.63 -2.30 -4.02	58.20 -2.83 -3.18	44.63 -2.11 -2.77	48.91 -2.34 -0.31	37.21 -0.18 -1.45	31.59 -0.09 -2.19	32.38 -0.54 -1.45	32.41 -0.19 -0.51
MODERN_LFGE_ 323580	31.05 -0.24 -1.74	30.06 -0.47 -1.19	30.04 -0.73 -0.46	27.77 -1.01 -0.69	27.48 -1.10 -0.43	30.07 -0.96 -0.22	29.37 -0.67 -0.71	30.07 -0.95 -1.26	34.52 -1.75 -0.63	36.81 -2.02 -0.82	40.55 -2.08 -0.22	40.98 -1.63 -0.93	43.97 -1.74 -1.10	45.20 -1.53 -1.75	46.07 -1.71 -1.53	47.34 -2.22 -3.32	50.63 -2.30 -4.02	58.20 -2.83 -3.18	44.63 -2.11 -2.77	48.91 -2.34 -0.31	37.21 -0.18 -1.45	31.59 -0.09 -2.19	32.38 -0.54 -1.45	32.41 -0.19 -0.51
MOHAWK_PAPER___DRP 24187	62.59 1.68 -31.36	52.41 1.67 -21.39	40.28 1.76 -8.22	42.09 1.60 -12.40	37.58 1.60 -7.84	36.48 1.76 -3.92	43.54 1.61 -12.58	49.85 1.64 -18.45	48.72 1.92 -11.16	54.74 2.05 -14.68	38.36 2.33 6.38	43.38 2.29 0.60	64.37 2.45 -17.30	60.07 2.47 -12.62	54.66 2.54 -5.87	69.45 2.50 -20.71	78.24 2.69 -26.64	75.53 3.18 -14.50	62.12 2.37 -15.78	37.45 2.75 16.24	55.94 2.01 -17.99	54.76 1.62 -23.64	44.58 1.73 -11.38	42.03 1.80 -8.14
MOHICAN___35_KV_115KV_LD 80490	71.60 2.78 -39.28	58.84 2.70 -26.79	43.27 2.67 -10.29	46.04 2.42 -15.53	40.35 2.39 -9.81	38.37 2.65 -4.91	48.34 2.52 -16.48	65.35 2.56 -33.03	53.24 2.99 -14.61	60.46 3.23 -19.23	60.06 3.65 -14.00	83.68 3.79 -38.21	89.57 4.06 -40.89	111.42 4.23 -62.22	107.88 4.30 -57.34	167.43 4.12 -117.08	186.94 4.16 -133.87	178.60 4.63 -116.12	145.72 3.74 -98.02	81.18 4.23 -26.01	80.01 3.16 -40.91	96.73 2.77 -64.46	80.62 2.80 -46.34	47.61 2.82 -12.69
MONGAUP___HYD 23641	41.79 1.33 -10.91	38.11 1.32 -7.44	34.65 1.48 -2.86	33.78 1.38 -4.31	32.25 1.38 -2.73	33.68 1.51 -1.36	35.27 1.52 -4.41	39.15 1.49 -7.90	41.16 1.61 -3.91	44.94 1.79 -5.15	45.77 1.99 -1.36	49.27 1.79 -5.80	53.20 1.69 -6.89	57.69 1.75 -10.96	57.69 1.85 -9.59	68.81 1.80 -20.77	76.22 2.15 -25.16	80.44 2.66 -19.93	63.30 1.98 -17.36	54.95 2.09 -1.92	46.66 1.62 -9.10	44.54 1.36 -13.69	42.10 1.57 -9.06	36.94 1.67 -3.18
MONTAUK___DIESEL 23721	68.80 4.46 -34.79	55.94 4.67 -21.93	53.49 5.18 -18.00	45.48 4.83 -12.56	43.85 4.84 -10.87	45.73 5.21 -9.72	43.89 5.31 -9.24	45.36 5.33 -10.27	63.98 6.20 -22.14	66.11 6.61 -21.49	74.54 7.42 -24.71	92.86 7.21 -43.97	95.37 7.76 -42.99	130.87 7.83 -78.07	173.84 8.05 -119.55	172.35 8.23 -117.88	223.23 8.85 -165.47	240.45 10.47 -172.12	174.92 7.87 -123.09	174.87 8.91 -115.01	118.89 6.43 -76.52	109.65 5.19 -74.97	71.00 5.66 -33.86	79.23 5.94 -41.20
MOONROAD_115KV_HARTFLD_TB1-2 355988	33.05 1.45 -2.05	31.92 1.17 -1.40	31.79 0.94 -0.54	29.41 0.51 -0.81	29.19 0.53 -0.51	31.84 0.77 -0.26	31.14 0.97 -0.83	32.26 1.01 -1.49	36.91 0.53 -0.74	39.50 0.81 -0.97	43.47 1.13 -0.26	43.90 1.25 -1.09	47.16 1.53 -1.30	48.57 1.34 -2.07	49.39 1.81 -1.81	50.89 0.74 -3.91	54.19 0.54 -4.75	62.07 0.46 -3.76	47.76 0.53 -3.27	51.91 0.61 -0.36	39.63 1.98 -1.72	33.70 1.62 -2.58	34.41 1.23 -1.71	34.10 1.41 -0.60
MORTIMER_115KV_TB3 55949	31.31 0.41 -1.35	30.56 0.29 -0.92	30.75 0.09 -0.35	28.51 -0.11 -0.53	28.26 -0.23 -0.34	30.88 -0.09 -0.17	30.00 0.12 -0.55	30.83 0.09 -0.98	35.80 -0.32 -0.48	38.34 -0.30 -0.64	42.32 -0.25 -0.17	42.44 0.04 -0.72	45.60 0.13 -0.85	46.60 0.27 -1.36	47.52 0.09 -1.19	48.62 -0.18 -2.57	51.63 -0.39 -3.12	59.91 -0.40 -2.47	45.80 -0.31 -2.15	50.92 -0.25 -0.24	37.85 0.79 -1.13	31.78 0.59 -1.69	32.94 0.35 -1.12	32.84 0.35 -0.39
MOTTHAVN_138_KV_9M4_REV_LBMP_J 345006	43.26 1.42 -12.30	39.29 1.56 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.69 2.02 -8.91	42.26 2.21 -4.41	46.16 2.36 -5.80	46.58 2.63 -1.54	50.55 2.25 -6.62	55.43 2.41 -8.41	60.10 2.52 -12.61	59.84 2.64 -10.96	72.96 3.01 -23.72	80.79 3.47 -28.41	84.79 4.22 -22.71	66.72 2.99 -19.77	56.11 3.01 -2.17	48.32 2.12 -10.27	46.64 1.71 -15.43	43.70 2.01 -10.21	37.92 2.25 -3.59
MUNSVILLE_WIND_PWR 323609	37.21 2.84 -4.83	35.40 2.76 -3.29	34.09 2.51 -1.27	32.28 2.27 -1.91	31.60 2.25 -1.21	33.97 2.56 -0.60	33.47 2.17 -1.96	35.69 2.41 -3.51	39.98 2.60 -1.74	43.33 3.04 -2.29	46.62 3.60 -0.61	48.35 4.09 -2.58	51.96 4.28 -3.06	54.08 4.23 -4.88	54.68 4.16 -4.27	59.50 4.02 -9.24	64.31 4.21 -11.20	71.46 4.74 -8.87	55.42 3.73 -7.72	56.18 4.38 -0.85	43.51 3.52 -4.05	38.41 2.83 -6.09	38.27 2.77 -4.03	36.20 2.70 -1.42
N SALMON___HYD 24042	29.37 -0.18 0.00	29.17 -0.18 0.00	29.98 -0.33 0.00	27.81 -0.28 0.00	27.89 -0.25 0.00	30.41 -0.40 0.00	28.96 -0.38 0.00	29.46 -0.30 0.00	35.53 -0.11 0.00	37.93 -0.08 0.00	42.20 -0.21 0.00	41.51 -0.17 0.00	44.39 -0.22 0.00	44.66 -0.31 0.00	46.11 -0.14 0.00	46.14 -0.09 0.00	48.42 -0.49 0.00	57.22 -0.64 0.00	43.66 -0.31 0.00	50.94 0.00 0.00	35.54 -0.39 0.00	29.14 -0.35 0.00	31.22 -0.25 0.00	31.67 -0.42 0.00
N.AKRON___115KV_KNAPP 355671	31.67 0.47 -1.65	30.77 0.29 -1.13	30.74 0.00 -0.43	28.44 -0.31 -0.65	28.16 -0.39 -0.41	30.77 -0.25 -0.21	30.07 0.06 -0.67	30.87 -0.09 -1.20	35.49 -0.75 -0.59	37.95 -0.84 -0.78	41.81 -0.81 -0.21	42.23 -0.33 -0.88	45.35 -0.31 -1.05	46.50 -0.13 -1.66	47.38 -0.32 -1.46	48.61 -0.79 -3.15	51.66 -1.08 -3.83	59.61 -1.27 -3.03	45.68 -0.92 -2.64	50.32 -0.92 -0.29	38.18 0.86 -1.38	32.31 0.74 -2.08	33.29 0.44 -1.38	33.18 0.61 -0.48
N.BELMOR_69_KV_BK1 55787	66.52 2.19 -34.79	53.54 2.26 -21.93	50.87 2.58 -17.98	43.02 2.39 -12.54	41.42 2.42 -10.85	43.11 2.59 -9.71	41.23 2.67 -9.23	42.23 2.71 -9.76	60.79 3.03 -22.12	62.71 3.23 -21.48	70.28 3.39 -24.48	72.80 3.04 -28.08	74.67 3.30 -26.76	77.68 3.42 -29.29	83.08 3.56 -33.27	94.15 3.93 -43.98	114.20 4.40 -60.89	118.15 5.26 -55.03	92.93 3.87 -45.10	81.00 4.08 -25.99	73.09 2.87 -34.28	66.66 2.42 -34.75	48.17 2.80 -13.90	63.88 2.98 -28.81
N.E._GEN_SANDY PD 24062	51.21 1.45 -20.22	50.00 1.47 -19.19	48.00 1.67 -16.02	46.88 1.57 -17.22	45.36 1.58 -15.64	47.86 1.72 -15.33	52.52 1.70 -21.48	50.53 1.70 -19.07	51.77 1.92 -14.21	53.87 2.01 -13.85	50.65 2.20 -6.04	60.72 1.96 -17.08	68.02 2.10 -21.31	75.64 2.11 -28.55	74.21 2.17 -25.79	101.36 2.31 -52.81	110.32 2.54 -58.87	113.03 3.12 -52.06	90.20 2.33 -43.91	70.51 2.55 -17.02	82.91 1.87 -45.11	59.40 1.53 -28.37	53.57 1.76 -20.34	51.06 1.86 -17.11



N.HEMPST_138_KV_BK345_REV_LBMP_G 345014	42.54 1.27 -11.73	38.69 1.35 -8.00	34.99 1.61 -3.07	34.22 1.49 -4.64	32.59 1.52 -2.93	33.88 1.60 -1.47	35.75 1.67 -4.74	39.95 1.70 -8.49	41.73 1.89 -4.20	45.55 2.01 -5.53	46.17 2.29 -1.47	49.91 2.00 -6.23	54.16 2.14 -7.40	59.00 2.25 -11.78	58.91 2.36 -10.31	71.19 2.64 -22.32	78.99 3.03 -27.05	82.86 3.59 -21.42	65.22 2.59 -18.66	55.60 2.60 -2.07	47.52 1.80 -9.79	45.71 1.50 -14.72	42.91 1.70 -9.74	37.40 1.89 -3.42
N.QUEENS_27_KV_LOAD 356247	43.18 1.33 -12.31	39.30 1.56 -8.40	35.51 1.97 -3.23	34.79 1.83 -4.87	33.11 1.89 -3.08	34.16 1.82 -1.54	36.31 1.99 -4.98	40.54 1.88 -8.91	41.87 1.82 -4.41	46.04 2.24 -5.80	46.36 2.42 -1.53	50.42 2.13 -6.61	55.33 2.32 -8.40	60.05 2.47 -12.60	59.74 2.54 -10.95	72.95 3.01 -23.71	80.75 3.42 -28.42	84.80 4.22 -22.72	66.59 2.86 -19.77	56.16 3.06 -2.16	48.24 2.05 -10.26	46.60 1.68 -15.42	43.66 1.98 -10.21	38.06 2.37 -3.60
N.TROY___115KV_TB1 355778	66.05 1.63 -34.87	54.78 1.64 -23.79	41.20 1.76 -9.14	43.51 1.63 -13.79	38.49 1.63 -8.71	36.95 1.79 -4.36	46.28 1.79 -15.16	67.46 1.82 -35.89	51.14 2.07 -13.44	57.93 2.24 -17.68	71.69 2.50 -26.78	104.46 2.42 -60.36	103.85 2.63 -56.61	136.23 2.65 -88.61	134.24 2.73 -85.27	216.11 2.73 -167.15	236.89 2.89 -185.10	231.36 3.41 -170.09	187.09 2.59 -140.53	107.20 2.95 -53.31	86.53 2.19 -48.41	111.40 1.80 -80.11	95.55 1.92 -62.16	47.05 2.02 -12.94
NARROWS_GT1_1 24228	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT1_2 24229	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT1_3 24230	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT1_4 24231	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT1_5 24232	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT1_6 24233	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT1_7 24234	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT1_8 24235	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT2_1 24236	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT2_2 24237	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT2_3 24238	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT2_4 24239	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59



NARROWS_GT2_5 24240	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT2_6 24241	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT2_7 24242	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NARROWS_GT2_8 24243	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.43 3.15 -43.04	84.22 3.67 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.31 2.12 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NCATSKLL_69_KV_NC-LINE_REV_LBMP_G 345022	52.79 1.83 -21.41	45.74 1.79 -14.60	37.74 1.82 -5.61	38.21 1.66 -8.46	35.10 1.60 -5.35	35.30 1.82 -2.68	39.57 1.67 -8.56	44.04 1.58 -12.70	45.05 1.82 -7.59	49.86 1.86 -9.99	40.71 2.29 3.99	42.07 2.29 1.90	42.40 2.23 4.45	50.16 2.29 -2.89	49.82 2.40 -1.18	56.41 2.31 -7.86	70.12 2.49 -18.72	66.02 3.07 -5.11	53.33 2.37 -7.00	43.49 2.85 10.30	50.32 1.87 -12.51	47.85 1.74 -16.61	41.66 1.95 -8.24	39.36 1.70 -5.57
NCHELSEA_115KV_TR2 355582	43.69 1.71 -12.43	39.58 1.76 -8.48	35.54 1.97 -3.26	34.83 1.83 -4.91	33.02 1.77 -3.11	34.30 1.94 -1.55	36.33 1.97 -5.03	40.78 1.96 -9.06	42.37 2.25 -4.49	46.26 2.36 -5.90	46.69 2.71 -1.56	50.79 2.46 -6.65	55.01 2.50 -7.90	60.11 2.56 -12.57	59.98 2.73 -11.00	73.06 3.01 -23.82	80.95 3.37 -28.67	84.54 3.99 -22.70	66.68 2.95 -19.78	56.13 3.01 -2.19	48.35 2.05 -10.37	46.80 1.71 -15.59	43.74 1.95 -10.32	37.86 2.15 -3.63
NEG CAPITAL___MECHNVIL 23645	69.93 2.39 -37.99	57.61 2.35 -25.92	42.66 2.39 -9.95	45.30 2.19 -15.02	39.80 2.17 -9.49	37.96 2.40 -4.75	47.76 2.32 -16.11	66.15 2.35 -34.04	64.29 2.74 -25.91	78.26 2.97 -37.29	63.97 3.43 -18.12	90.53 3.46 -45.39	94.32 3.70 -46.00	119.61 3.82 -70.82	116.55 3.89 -66.42	183.42 3.79 -133.40	203.55 4.01 -150.63	196.17 4.63 -133.69	159.36 3.52 -111.88	89.77 4.02 -34.80	82.31 2.95 -43.43	101.59 2.45 -69.65	85.52 2.52 -51.54	47.50 2.60 -12.81
NEG CENTRAL_HIGH_ACRES 23767	30.76 -0.09 -1.30	30.09 -0.15 -0.89	30.26 -0.39 -0.34	28.10 -0.50 -0.52	27.85 -0.62 -0.33	30.45 -0.52 -0.16	29.54 -0.32 -0.53	30.44 -0.27 -0.95	35.43 -0.68 -0.47	38.01 -0.61 -0.62	41.98 -0.59 -0.16	42.08 -0.29 -0.69	45.13 -0.31 -0.83	46.15 -0.13 -1.31	47.07 -0.32 -1.15	48.12 -0.60 -2.49	51.19 -0.73 -3.01	59.31 -0.93 -2.39	45.29 -0.75 -2.08	50.35 -0.82 -0.23	37.21 0.18 -1.09	31.25 0.12 -1.64	32.40 -0.16 -1.08	32.28 -0.19 -0.38
NEG CENTRAL___DRP 24199	31.50 0.50 -1.45	30.83 0.50 -0.99	31.02 0.33 -0.38	28.84 0.17 -0.57	28.68 0.17 -0.36	31.30 0.31 -0.18	30.28 0.35 -0.59	31.20 0.39 -1.05	36.27 0.11 -0.52	38.92 0.23 -0.69	42.89 0.30 -0.18	42.99 0.54 -0.77	46.11 0.58 -0.92	47.16 0.72 -1.46	48.08 0.55 -1.28	49.47 0.46 -2.77	52.65 0.39 -3.35	60.86 0.35 -2.66	46.54 0.26 -2.31	51.50 0.31 -0.26	37.87 0.72 -1.21	31.91 0.59 -1.82	33.06 0.38 -1.21	32.87 0.35 -0.42
NEG CENTRAL___INDECK 23768	32.38 0.83 -2.01	31.42 0.70 -1.37	31.26 0.42 -0.53	29.06 0.17 -0.79	28.70 0.06 -0.50	31.37 0.31 -0.25	30.53 0.38 -0.81	31.28 0.06 -1.46	35.76 -0.61 -0.72	38.00 -0.95 -0.95	41.69 -0.97 -0.25	42.12 -0.62 -1.07	43.47 -2.41 -1.27	44.79 -2.20 -2.02	45.66 -2.36 -1.77	47.29 -2.77 -3.83	50.71 -2.84 -4.64	59.39 -2.14 -3.67	45.88 -1.28 -3.20	50.28 -1.02 -0.35	39.01 1.40 -1.68	33.14 1.12 -2.52	33.93 0.79 -1.67	33.48 0.80 -0.59
NEG CENTRAL___SENECA 23627	31.84 0.65 -1.64	31.14 0.67 -1.12	31.19 0.45 -0.43	28.99 0.25 -0.65	28.81 0.25 -0.41	31.48 0.46 -0.21	30.53 0.53 -0.67	31.49 0.54 -1.19	36.37 0.14 -0.59	39.04 0.27 -0.78	43.00 0.38 -0.21	43.26 0.71 -0.88	46.37 0.71 -1.04	47.53 0.90 -1.65	48.39 0.69 -1.45	49.92 0.55 -3.13	53.14 0.44 -3.79	61.26 0.40 -3.00	46.89 0.31 -2.62	51.64 0.41 -0.29	38.28 0.97 -1.37	32.38 0.83 -2.06	33.34 0.50 -1.37	33.05 0.48 -0.48
NEG CENTRAL___STATE_STREET 24147	31.71 0.74 -1.42	31.08 0.76 -0.97	31.32 0.64 -0.37	29.13 0.48 -0.56	28.98 0.48 -0.36	31.63 0.65 -0.18	30.53 0.62 -0.58	31.48 0.68 -1.03	36.83 0.68 -0.51	39.32 0.65 -0.67	43.31 0.72 -0.18	43.40 0.96 -0.76	46.50 0.98 -0.90	47.53 1.12 -1.43	48.47 0.97 -1.26	49.93 0.97 -2.72	53.08 0.88 -3.29	61.73 1.27 -2.61	47.15 0.92 -2.27	52.21 1.02 -0.25	38.20 1.08 -1.19	32.17 0.88 -1.79	33.41 0.76 -1.18	33.21 0.71 -0.42
NEG MILLWOOD___DRP 24198	43.94 1.86 -12.54	39.83 1.94 -8.55	35.72 2.12 -3.28	35.01 1.97 -4.96	33.19 1.91 -3.13	34.47 2.10 -1.57	36.58 2.17 -5.07	41.07 2.20 -9.10	42.64 2.49 -4.51	46.52 2.58 -5.93	46.95 2.97 -1.57	51.16 2.79 -6.69	55.72 3.17 -7.94	60.89 3.28 -12.64	60.73 3.42 -11.06	73.92 3.75 -23.94	81.98 4.16 -28.92	85.78 5.03 -22.90	67.52 3.60 -19.95	56.87 3.72 -2.21	48.88 2.48 -10.46	47.26 2.04 -15.73	44.08 2.20 -10.41	38.22 2.47 -3.66
NEG NORTH_FLCN_SEA 23793	29.61 0.06 0.00	29.37 0.03 0.00	30.19 -0.12 0.00	28.01 -0.08 0.00	28.09 -0.06 0.00	30.72 -0.09 0.00	29.28 -0.06 0.00	29.82 0.06 0.00	35.96 0.32 0.00	38.34 0.34 0.00	42.71 0.30 0.00	41.97 0.29 0.00	44.88 0.27 0.00	45.20 0.22 0.00	46.61 0.37 0.00	46.56 0.32 0.00	49.01 0.10 0.00	57.97 0.12 0.00	44.22 0.26 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.06 -0.03 0.00
NEG NORTH_KES_CHATEGAY 23792	29.28 -0.27 0.00	29.05 -0.29 0.00	29.89 -0.42 0.00	27.73 -0.37 0.00	27.78 -0.37 0.00	30.38 -0.43 0.00	28.96 -0.38 0.00	29.46 -0.30 0.00	35.57 -0.07 0.00	37.89 -0.11 0.00	42.20 -0.21 0.00	41.47 -0.21 0.00	44.39 -0.22 0.00	44.66 -0.31 0.00	46.06 -0.18 0.00	46.05 -0.18 0.00	48.47 -0.44 0.00	57.39 -0.46 0.00	43.79 -0.18 0.00	50.99 0.05 0.00	35.61 -0.32 0.00	29.20 -0.29 0.00	31.22 -0.25 0.00	31.70 -0.39 0.00



NEG NORTH___ALICE_FALLS 23915	29.58 0.03 0.00	29.32 -0.03 0.00	30.13 -0.18 0.00	27.95 -0.14 0.00	28.03 -0.11 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.93 0.29 0.00	38.31 0.30 0.00	42.62 0.21 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.15 0.18 0.00	46.57 0.32 0.00	46.51 0.28 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.22 0.26 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.02 -0.06 0.00
NEG NORTH___LWR_SARANAC 23913	29.58 0.03 0.00	29.32 -0.03 0.00	30.13 -0.18 0.00	27.95 -0.14 0.00	28.03 -0.11 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.93 0.29 0.00	38.31 0.30 0.00	42.62 0.21 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.15 0.18 0.00	46.57 0.32 0.00	46.51 0.28 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.22 0.26 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.02 -0.06 0.00
NEG NORTH___PLATTSBURG 23628	29.58 0.03 0.00	29.32 -0.03 0.00	30.13 -0.18 0.00	27.95 -0.14 0.00	28.09 -0.06 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.92 0.28 0.00	38.30 0.30 0.00	42.62 0.21 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.16 0.18 0.00	46.57 0.33 0.00	46.61 0.37 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.23 0.27 0.00	51.55 0.61 0.00	36.01 0.07 0.00	29.52 0.03 0.00	31.57 0.09 0.00	32.02 -0.06 0.00
NEG WEST_LEA_LOCKPORT 23791	31.20 -0.06 -1.72	30.22 -0.29 -1.17	30.21 -0.55 -0.45	27.90 -0.87 -0.68	27.67 -0.90 -0.43	30.22 -0.80 -0.21	29.51 -0.53 -0.70	30.26 -0.74 -1.25	34.72 -1.53 -0.62	37.07 -1.75 -0.81	40.80 -1.82 -0.22	41.22 -1.38 -0.91	44.32 -1.38 -1.09	45.44 -1.26 -1.73	46.32 -1.43 -1.51	47.62 -1.90 -3.27	50.78 -2.10 -3.97	58.45 -2.55 -3.15	44.86 -1.85 -2.74	49.10 -2.14 -0.30	37.44 0.07 -1.44	31.80 0.15 -2.16	32.77 -0.13 -1.43	32.75 0.16 -0.50
NEG WEST___LANCASTR 23811	32.23 0.62 -2.06	31.13 0.38 -1.41	31.00 0.15 -0.54	28.71 -0.20 -0.81	28.49 -0.17 -0.51	31.04 -0.03 -0.26	30.35 0.18 -0.84	31.29 0.03 -1.49	35.74 -0.64 -0.74	38.22 -0.76 -0.97	41.99 -0.68 -0.26	42.57 -0.21 -1.10	45.78 -0.13 -1.30	47.18 0.13 -2.07	48.11 0.05 -1.82	49.71 -0.46 -3.93	53.09 -0.59 -4.77	60.82 -0.81 -3.77	46.72 -0.53 -3.29	50.59 -0.71 -0.36	38.52 0.86 -1.72	32.79 0.71 -2.59	33.47 0.28 -1.72	33.27 0.58 -0.60
NEG_PENN_ALLEGHNY 23528	34.34 0.71 -4.09	32.78 0.64 -2.79	31.95 0.57 -1.07	30.16 0.45 -1.62	29.61 0.45 -1.02	31.90 0.58 -0.51	31.55 0.56 -1.66	33.32 0.59 -2.97	37.57 0.46 -1.47	40.47 0.53 -1.93	43.60 0.68 -0.51	44.65 0.79 -2.18	48.09 0.99 -2.59	50.08 0.92 -4.12	50.77 0.92 -3.60	54.82 0.79 -7.80	59.24 0.88 -9.45	66.32 0.98 -7.48	51.18 0.70 -6.52	52.43 0.77 -0.72	40.32 0.97 -3.42	35.43 0.80 -5.14	35.56 0.69 -3.40	34.05 0.77 -1.19
NEG___GEN_MONROE 24207	31.50 0.59 -1.36	30.77 0.50 -0.93	30.88 0.21 -0.36	28.63 0.00 -0.54	28.40 -0.08 -0.34	31.04 0.06 -0.17	30.12 0.23 -0.55	30.93 0.18 -0.99	35.81 -0.32 -0.49	38.30 -0.34 -0.64	42.28 -0.30 -0.17	42.32 -0.08 -0.73	45.43 -0.04 -0.86	46.48 0.13 -1.37	47.45 0.00 -1.20	48.47 -0.37 -2.60	51.52 -0.54 -3.15	59.48 -0.87 -2.50	45.56 -0.57 -2.18	50.62 -0.56 -0.24	37.69 0.61 -1.14	31.68 0.47 -1.72	32.83 0.22 -1.13	32.78 0.29 -0.40
NEPA___ENERGY 23901	32.43 0.80 -2.08	31.32 0.56 -1.42	31.22 0.36 -0.55	28.92 0.00 -0.82	28.66 0.00 -0.52	31.25 0.18 -0.26	30.56 0.38 -0.84	31.54 0.27 -1.51	36.07 -0.32 -0.75	38.57 -0.42 -0.98	42.37 -0.30 -0.26	42.87 0.08 -1.11	46.06 0.13 -1.32	47.52 0.45 -2.10	48.45 0.37 -1.83	50.02 -0.18 -3.97	53.43 -0.29 -4.82	61.26 -0.40 -3.81	47.06 -0.22 -3.32	51.00 -0.31 -0.37	38.79 1.11 -1.74	33.06 0.94 -2.62	33.74 0.53 -1.73	33.47 0.77 -0.61
NEVERSINK___HYD 23608	41.72 0.95 -11.23	37.94 0.94 -7.66	34.37 1.12 -2.94	33.57 1.04 -4.44	31.96 1.01 -2.80	33.29 1.08 -1.40	34.98 1.11 -4.53	38.97 1.10 -8.11	41.22 1.57 -4.02	45.04 1.75 -5.28	45.85 2.04 -1.40	49.37 1.83 -5.86	52.79 1.83 -6.34	56.39 0.45 -10.97	56.49 0.56 -9.69	68.05 0.83 -20.98	75.83 1.13 -25.79	79.71 1.68 -20.18	62.79 1.23 -17.60	53.98 1.07 -1.97	45.85 0.57 -9.35	44.84 1.30 -14.05	42.25 1.48 -9.30	36.93 1.57 -3.27
NEWKRMKL_115KV_TB1 55635	59.56 1.09 -28.92	50.16 1.09 -19.73	39.07 1.18 -7.58	40.62 1.10 -11.43	36.47 1.10 -7.23	35.63 1.20 -3.61	42.03 1.11 -11.58	47.61 1.10 -16.74	47.19 1.28 -10.27	52.88 1.37 -13.51	37.47 1.53 6.47	40.18 1.42 2.92	51.15 1.52 -5.02	52.85 1.53 -6.34	49.62 1.57 -1.81	59.64 1.57 -11.83	71.84 1.66 -21.27	66.61 1.97 -6.79	54.79 1.49 -9.34	36.47 1.73 16.20	53.29 1.26 -16.10	51.39 1.03 -20.87	42.24 1.13 -9.64	40.71 1.19 -7.44
NEWTON___FALLS_HYD 23847	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.90 -0.20 0.00	27.83 -0.31 0.00	30.29 -0.52 0.00	28.63 -0.70 0.00	29.08 -0.68 0.00	34.82 -0.82 0.00	37.20 -0.80 0.00	41.48 -0.93 0.00	40.89 -0.79 0.00	43.63 -0.98 0.00	43.90 -1.08 0.00	45.18 -1.06 0.00	45.22 -1.02 0.00	47.73 -1.17 0.00	56.46 -1.39 0.00	42.95 -1.01 0.00	50.02 -0.92 0.00	35.11 -0.83 0.00	28.82 -0.68 0.00	30.94 -0.54 0.00	31.38 -0.71 0.00
NGRID_A1_DSASP 323792	31.06 -0.24 -1.75	30.10 -0.44 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.57 -1.01 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.28 -2.00 -0.63	36.59 -2.24 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.63 -2.10 -1.11	44.85 -1.89 -1.77	45.71 -2.08 -1.55	46.99 -2.59 -3.34	50.27 -2.69 -4.05	57.82 -3.24 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.20	32.11 -0.82 -1.46	32.22 -0.38 -0.51
NGRID_A2_DSASP 323793	31.06 -0.24 -1.75	30.10 -0.44 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.57 -1.01 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.28 -2.00 -0.63	36.59 -2.24 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.63 -2.10 -1.11	44.85 -1.89 -1.77	45.71 -2.08 -1.55	46.99 -2.59 -3.34	50.27 -2.69 -4.05	57.82 -3.24 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.20	32.11 -0.82 -1.46	32.22 -0.38 -0.51
NGRID_A4_DSASP 323807	31.06 -0.24 -1.75	30.07 -0.47 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.63 -0.96 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.27 -2.00 -0.63	36.63 -2.20 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.71 -2.01 -1.11	44.81 -1.93 -1.77	45.71 -2.08 -1.54	47.04 -2.54 -3.34	50.18 -2.79 -4.06	57.71 -3.36 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.21	32.18 -0.76 -1.46	32.22 -0.39 -0.51
NIAGARA_115E_LBMP 323715	30.95 -0.35 -1.76	29.96 -0.59 -1.20	29.92 -0.85 -0.46	27.66 -1.12 -0.70	27.35 -1.24 -0.44	29.95 -1.08 -0.22	29.26 -0.79 -0.71	29.94 -1.10 -1.28	34.35 -1.93 -0.63	36.59 -2.24 -0.83	40.34 -2.29 -0.22	40.78 -1.83 -0.94	43.76 -1.96 -1.11	44.99 -1.75 -1.77	45.85 -1.94 -1.55	47.14 -2.45 -3.35	50.43 -2.55 -4.06	57.95 -3.12 -3.22	44.43 -2.33 -2.80	48.66 -2.60 -0.31	37.05 -0.36 -1.47	31.44 -0.27 -2.21	32.21 -0.72 -1.46	32.22 -0.38 -0.51



NIAGARA_115W_LBMP 323714	31.00 -0.30 -1.75	30.04 -0.50 -1.19	30.07 -0.70 -0.46	27.83 -0.96 -0.69	27.51 -1.07 -0.44	30.04 -0.99 -0.22	29.31 -0.73 -0.71	29.87 -1.16 -1.27	34.20 -2.07 -0.63	36.51 -2.32 -0.83	40.13 -2.50 -0.22	40.53 -2.08 -0.93	43.49 -2.23 -1.11	44.71 -2.02 -1.76	45.57 -2.22 -1.54	46.85 -2.73 -3.34	50.17 -2.79 -4.05	57.64 -3.41 -3.20	44.16 -2.59 -2.79	48.40 -2.85 -0.31	36.86 -0.54 -1.46	31.25 -0.44 -2.20	32.01 -0.91 -1.46	32.15 -0.45 -0.51
NIAGARA_230_LBMP 323716	31.18 -0.09 -1.72	30.23 -0.29 -1.18	30.25 -0.52 -0.45	27.96 -0.82 -0.68	27.67 -0.90 -0.43	30.28 -0.74 -0.22	29.57 -0.47 -0.70	30.27 -0.74 -1.25	34.69 -1.57 -0.62	37.07 -1.75 -0.81	40.76 -1.87 -0.22	41.14 -1.46 -0.92	44.23 -1.47 -1.09	45.45 -1.26 -1.73	46.33 -1.43 -1.52	47.58 -1.94 -3.29	50.88 -2.01 -3.98	58.58 -2.43 -3.15	44.86 -1.84 -2.75	49.15 -2.09 -0.30	37.38 0.00 -1.44	31.69 0.03 -2.17	32.49 -0.41 -1.43	32.46 -0.13 -0.50
NIAGARA__115KV_198_GIBSON 55903	31.00 -0.30 -1.75	30.04 -0.50 -1.19	30.07 -0.70 -0.46	27.83 -0.96 -0.69	27.57 -1.01 -0.44	30.04 -0.99 -0.22	29.31 -0.73 -0.71	29.87 -1.16 -1.27	34.20 -2.07 -0.63	36.51 -2.32 -0.83	40.13 -2.50 -0.22	40.53 -2.08 -0.93	43.62 -2.10 -1.11	44.71 -2.02 -1.76	45.57 -2.22 -1.54	46.94 -2.64 -3.34	50.02 -2.93 -4.05	57.59 -3.47 -3.21	44.20 -2.55 -2.79	48.35 -2.90 -0.31	36.86 -0.54 -1.47	31.25 -0.44 -2.20	32.08 -0.85 -1.46	32.12 -0.48 -0.51
NIAGARA____ 23760	30.95 -0.35 -1.75	29.98 -0.56 -1.20	29.98 -0.79 -0.46	27.72 -1.07 -0.69	27.40 -1.18 -0.44	29.98 -1.05 -0.22	29.29 -0.76 -0.71	29.96 -1.07 -1.27	34.41 -1.85 -0.63	36.70 -2.13 -0.82	40.42 -2.21 -0.22	40.82 -1.79 -0.93	43.80 -1.92 -1.10	45.02 -1.71 -1.76	45.93 -1.85 -1.54	47.21 -2.36 -3.33	50.49 -2.44 -4.03	58.09 -2.95 -3.19	44.50 -2.24 -2.78	48.75 -2.49 -0.31	37.04 -0.36 -1.46	31.40 -0.29 -2.20	32.14 -0.79 -1.46	32.18 -0.42 -0.51
NINE_MILE_1 23575	28.78 -0.77 0.00	28.58 -0.76 0.00	29.46 -0.85 0.00	27.25 -0.84 0.00	27.30 -0.84 0.00	29.91 -0.89 0.00	28.52 -0.82 0.00	28.96 -0.80 0.00	34.57 -1.07 0.00	36.86 -1.14 0.00	41.18 -1.23 0.00	40.56 -1.12 0.00	43.41 -1.20 0.00	43.80 -1.17 0.00	44.95 -1.29 0.00	44.89 -1.34 0.00	47.49 -1.42 0.00	56.12 -1.73 0.00	42.64 -1.32 0.00	49.41 -1.53 0.00	35.07 -0.86 0.00	28.79 -0.71 0.00	30.62 -0.85 0.00	31.22 -0.86 0.00
NINE_MILE_2 23744	28.78 -0.77 0.00	28.58 -0.76 0.00	29.46 -0.85 0.00	27.25 -0.84 0.00	27.30 -0.84 0.00	29.91 -0.89 0.00	28.52 -0.82 0.00	28.96 -0.80 0.00	34.57 -1.07 0.00	36.86 -1.14 0.00	41.18 -1.23 0.00	40.56 -1.12 0.00	43.41 -1.20 0.00	43.80 -1.17 0.00	44.95 -1.29 0.00	44.89 -1.34 0.00	47.49 -1.42 0.00	56.12 -1.73 0.00	42.64 -1.32 0.00	49.41 -1.53 0.00	35.07 -0.86 0.00	28.79 -0.71 0.00	30.65 -0.82 0.00	31.22 -0.86 0.00
NM_CAPITAL____DRP 24208	59.32 1.15 -28.62	50.04 1.17 -19.52	39.11 1.30 -7.50	40.61 1.21 -11.31	36.50 1.21 -7.15	35.71 1.32 -3.58	41.92 1.20 -11.38	46.32 1.19 -15.37	47.12 1.39 -10.09	52.73 1.44 -13.28	34.92 1.61 9.10	36.69 1.50 6.49	58.05 1.61 -11.83	50.77 1.62 -4.18	45.59 1.66 2.32	52.73 1.66 -4.82	60.00 1.81 -9.29	58.22 2.14 1.77	48.01 1.63 -2.42	31.09 1.88 21.73	50.99 1.37 -13.69	47.01 1.12 -16.39	38.31 1.23 -5.61	40.47 1.32 -7.06
NM_CENTRAL____DRP 24181	29.46 -0.09 0.00	29.23 -0.12 0.00	30.07 -0.24 0.00	27.81 -0.28 0.00	27.86 -0.28 0.00	30.56 -0.25 0.00	29.10 -0.23 0.00	29.58 -0.18 0.00	35.32 -0.32 0.00	37.74 -0.27 0.00	42.16 -0.25 0.00	41.55 -0.13 0.00	44.52 -0.09 0.00	44.97 0.00 0.00	46.11 -0.14 0.00	46.05 -0.18 0.00	48.66 -0.24 0.00	57.51 -0.35 0.00	43.61 -0.35 0.00	50.48 -0.46 0.00	35.90 -0.04 0.00	29.43 -0.06 0.00	31.31 -0.16 0.00	31.90 -0.19 0.00
NM_FRONTIER____DRP 24179	31.00 -0.30 -1.75	30.04 -0.50 -1.19	30.07 -0.70 -0.46	27.83 -0.96 -0.69	27.57 -1.01 -0.44	30.04 -0.99 -0.22	29.31 -0.73 -0.71	29.87 -1.16 -1.27	34.20 -2.07 -0.63	36.51 -2.32 -0.83	40.13 -2.50 -0.22	40.53 -2.08 -0.93	43.62 -2.10 -1.11	44.71 -2.02 -1.76	45.57 -2.22 -1.54	46.94 -2.64 -3.34	50.02 -2.93 -4.05	57.59 -3.47 -3.21	44.20 -2.55 -2.79	48.35 -2.90 -0.31	36.86 -0.54 -1.47	31.25 -0.44 -2.20	32.08 -0.85 -1.46	32.12 -0.48 -0.51
NM_ST_REGIS____HYD 24053	29.22 -0.33 0.00	29.02 -0.32 0.00	29.79 -0.52 0.00	27.67 -0.42 0.00	27.61 -0.53 0.00	30.01 -0.80 0.00	28.43 -0.91 0.00	28.87 -0.89 0.00	34.75 -0.89 0.00	37.13 -0.87 0.00	41.31 -1.10 0.00	40.68 -1.00 0.00	43.45 -1.16 0.00	43.67 -1.30 0.00	45.09 -1.16 0.00	45.08 -1.16 0.00	47.49 -1.42 0.00	56.06 -1.79 0.00	42.69 -1.27 0.00	49.77 -1.17 0.00	34.71 -1.22 0.00	28.46 -1.03 0.00	30.68 -0.79 0.00	31.13 -0.96 0.00
NORTHPORT____1 23551	67.00 2.66 -34.79	54.12 2.85 -21.93	51.51 3.21 -17.99	43.62 2.98 -12.55	42.01 3.01 -10.86	43.76 3.23 -9.72	41.74 3.17 -9.23	43.23 3.19 -10.28	61.33 3.56 -22.13	63.17 3.69 -21.49	70.50 3.60 -24.49	73.35 3.17 -28.51	75.24 3.44 -27.19	78.98 3.42 -30.59	85.42 3.61 -35.57	95.98 3.79 -45.95	116.74 4.15 -63.68	125.07 5.03 -62.18	100.16 3.78 -52.42	83.53 4.23 -28.36	74.33 2.98 -35.41	67.76 2.45 -35.82	49.24 2.99 -14.78	64.36 3.11 -29.16
NORTHPORT____2 23552	67.00 2.66 -34.79	54.12 2.85 -21.93	51.51 3.21 -17.99	43.62 2.98 -12.55	42.01 3.01 -10.86	43.76 3.23 -9.72	41.74 3.17 -9.23	43.23 3.19 -10.28	61.33 3.56 -22.13	63.17 3.69 -21.49	70.50 3.60 -24.49	73.35 3.17 -28.51	75.24 3.44 -27.19	78.98 3.42 -30.59	85.42 3.61 -35.57	95.98 3.79 -45.95	116.74 4.15 -63.68	125.07 5.03 -62.18	100.16 3.78 -52.42	83.53 4.23 -28.36	74.33 2.98 -35.41	67.76 2.45 -35.82	49.24 2.99 -14.78	64.36 3.11 -29.16
NORTHPORT____3 23553	66.29 1.95 -34.79	53.33 2.05 -21.93	50.71 2.43 -17.98	42.91 2.27 -12.54	41.36 2.36 -10.85	42.98 2.47 -9.71	41.44 2.88 -9.23	42.92 2.89 -10.27	60.93 3.17 -22.12	62.83 3.34 -21.48	70.47 3.60 -24.46	71.44 3.08 -26.68	73.01 3.08 -25.32	73.01 3.06 -24.98	74.89 3.00 -25.64	87.01 3.33 -37.44	104.26 3.72 -51.64	98.24 4.57 -35.82	72.62 3.34 -25.32	72.62 3.56 -18.11	69.25 2.77 -30.55	63.08 2.39 -31.19	45.30 2.83 -10.99	64.35 3.11 -29.15
NORTHPORT____4 23650	66.29 1.95 -34.79	53.33 2.05 -21.93	50.71 2.43 -17.98	42.91 2.27 -12.54	41.36 2.36 -10.85	42.98 2.47 -9.71	41.44 2.88 -9.23	42.92 2.89 -10.27	60.93 3.17 -22.12	62.83 3.34 -21.48	70.47 3.60 -24.46	71.44 3.08 -26.68	73.01 3.08 -25.32	73.01 3.06 -24.98	74.89 3.00 -25.64	87.01 3.33 -37.44	104.26 3.72 -51.64	98.24 4.57 -35.82	72.62 3.34 -25.32	72.62 3.56 -18.11	69.25 2.77 -30.55	63.08 2.39 -31.19	45.30 2.83 -10.99	64.35 3.11 -29.15
NORTHPORT____IC 23718	67.00 2.66 -34.79	54.12 2.85 -21.93	51.51 3.21 -17.99	43.62 2.98 -12.55	42.01 3.01 -10.86	43.76 3.23 -9.72	41.74 3.17 -9.23	43.23 3.19 -10.28	61.33 3.56 -22.13	63.17 3.69 -21.49	70.50 3.60 -24.49	73.35 3.17 -28.51	75.24 3.44 -27.19	78.98 3.42 -30.59	85.42 3.61 -35.57	95.98 3.79 -45.95	116.74 4.15 -63.68	125.07 5.03 -62.18	100.16 3.78 -52.42	83.53 4.23 -28.36	74.33 2.98 -35.41	67.76 2.45 -35.82	49.24 2.99 -14.78	64.36 3.11 -29.16



NORTH__COUNTRY_ESR 323785	29.19 -0.35 0.00	28.96 -0.38 0.00	29.79 -0.52 0.00	27.64 -0.45 0.00	27.75 -0.39 0.00	30.31 -0.49 0.00	28.87 -0.47 0.00	29.37 -0.39 0.00	35.46 -0.18 0.00	37.81 -0.19 0.00	42.12 -0.29 0.00	41.39 -0.29 0.00	44.30 -0.31 0.00	44.57 -0.41 0.00	45.97 -0.28 0.00	45.96 -0.28 0.00	48.37 -0.54 0.00	57.27 -0.58 0.00	43.66 -0.31 0.00	50.84 -0.10 0.00	35.47 -0.47 0.00	29.08 -0.41 0.00	31.13 -0.35 0.00	31.61 -0.48 0.00
NPX_GEN_1385_PROXY 323591	67.32 2.98 -34.79	54.80 3.52 -21.93	52.21 3.91 -17.99	44.35 3.71 -12.55	42.86 3.86 -10.86	44.68 4.16 -9.72	50.90 4.05 -17.51	44.09 4.05 -10.28	61.97 4.20 -22.13	63.59 4.11 -21.49	70.50 3.60 -24.49	73.35 3.17 -28.51	75.24 3.44 -27.19	78.98 3.42 -30.59	85.70 3.89 -35.57	95.93 3.74 -45.95	116.50 3.91 -63.68	124.49 4.45 -62.18	99.98 3.61 -52.42	84.30 5.00 -28.36	74.11 2.77 -35.41	67.50 2.18 -35.82	49.58 3.33 -14.78	63.91 2.66 -29.16
NPX_GEN_CSC 323557	67.00 2.66 -34.79	54.24 2.96 -21.93	51.79 3.48 -18.00	44.02 3.37 -12.56	42.41 3.40 -10.87	44.10 3.57 -9.72	42.31 3.73 -9.24	43.69 3.66 -10.27	61.77 3.99 -22.14	63.60 4.11 -21.49	71.66 4.54 -24.71	90.00 4.38 -43.95	92.26 4.68 -42.96	127.51 4.54 -77.99	170.28 4.62 -119.41	168.76 4.76 -117.76	219.39 5.18 -165.30	210.73 6.02 -146.86	191.79 4.53 -143.30	171.11 5.30 -114.87	116.41 4.02 -76.45	107.67 3.27 -74.90	81.82 3.65 -46.70	77.15 3.88 -41.18
NSINS_S_GLNS_FALLS 23858	71.75 2.78 -39.42	58.97 2.73 -26.89	43.31 2.67 -10.33	46.09 2.42 -15.58	40.39 2.39 -9.85	38.42 2.68 -4.93	48.38 2.52 -16.52	65.24 2.56 -32.91	53.28 2.99 -14.65	60.51 3.23 -19.28	59.55 3.60 -13.54	82.87 3.79 -37.40	88.99 4.06 -40.32	110.45 4.23 -61.25	106.86 4.30 -56.31	165.58 4.12 -115.23	184.99 4.11 -131.98	176.56 4.57 -114.14	144.11 3.69 -96.45	80.18 4.23 -25.01	79.69 3.13 -40.63	96.14 2.77 -63.88	80.00 2.77 -45.76	47.59 2.82 -12.68
NUCOR_STEEL__DRP 24197	31.43 0.53 -1.35	30.83 0.56 -0.92	31.12 0.45 -0.35	28.94 0.31 -0.53	28.79 0.31 -0.34	31.41 0.43 -0.17	30.30 0.41 -0.55	31.22 0.48 -0.98	36.52 0.39 -0.49	39.17 0.53 -0.64	43.22 0.64 -0.17	43.23 0.83 -0.72	46.36 0.89 -0.86	47.33 0.99 -1.36	48.27 0.83 -1.19	49.65 0.83 -2.58	52.82 0.78 -3.13	61.20 0.87 -2.48	46.73 0.62 -2.16	51.84 0.66 -0.24	37.89 0.83 -1.13	31.84 0.65 -1.70	33.13 0.53 -1.13	33.00 0.51 -0.40
NUMBER_THREE_WT_PWR 323818	29.99 0.44 0.00	29.76 0.41 0.00	30.52 0.21 0.00	28.29 0.20 0.00	28.26 0.11 0.00	30.84 0.03 0.00	29.16 -0.17 0.00	29.61 -0.15 0.00	35.43 -0.21 0.00	37.89 -0.11 0.00	42.33 -0.08 0.00	41.72 0.04 0.00	44.57 -0.04 0.00	44.84 -0.13 0.00	46.11 -0.14 0.00	46.10 -0.14 0.00	48.76 -0.15 0.00	57.62 -0.23 0.00	43.79 -0.18 0.00	50.94 0.00 0.00	35.97 0.04 0.00	29.49 0.00 0.00	31.50 0.03 0.00	31.96 -0.13 0.00
NYISO_LBMP_REFERENCE 24008	29.55 0.00 0.00	29.34 0.00 0.00	30.31 0.00 0.00	28.09 0.00 0.00	28.14 0.00 0.00	30.81 0.00 0.00	29.34 0.00 0.00	29.76 0.00 0.00	35.64 0.00 0.00	38.00 0.00 0.00	42.41 0.00 0.00	41.68 0.00 0.00	44.61 0.00 0.00	44.97 0.00 0.00	46.24 0.00 0.00	46.24 0.00 0.00	48.91 0.00 0.00	57.85 0.00 0.00	43.96 0.00 0.00	50.94 0.00 0.00	35.93 0.00 0.00	29.49 0.00 0.00	31.47 0.00 0.00	32.09 0.00 0.00
NYPA_BRENTWD__GT 24164	67.38 3.04 -34.79	54.45 3.17 -21.93	51.84 3.54 -17.99	43.93 3.29 -12.55	42.32 3.32 -10.86	44.10 3.57 -9.72	42.15 3.58 -9.23	43.64 3.63 -10.24	61.87 4.10 -22.13	63.86 4.37 -21.49	71.43 4.49 -24.53	77.11 4.04 -31.39	79.12 4.37 -30.14	88.55 4.14 -39.44	101.78 4.30 -51.23	109.99 4.39 -59.36	136.41 4.84 -82.66	137.04 5.78 -73.41	113.07 4.31 -64.80	100.45 5.00 -44.52	82.78 3.77 -43.08	75.71 3.10 -43.12	55.83 3.62 -20.74	67.38 3.75 -31.54
NYPA_GOWANUS__GT5 24156	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.38 3.10 -43.04	84.17 3.62 -31.64	112.80 4.34 -50.61	88.12 2.99 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NYPA_GOWANUS__GT6 24157	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.15 2.10 -4.41	46.08 2.28 -5.80	46.48 2.54 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.19 2.63 -22.31	92.38 3.10 -43.04	84.17 3.62 -31.64	112.80 4.34 -50.61	88.12 2.99 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.43	43.79 2.11 -10.21	37.96 2.28 -3.59
NYPA_HARLEM_RVR_GT1 24160	43.12 1.27 -12.31	39.27 1.52 -8.40	35.48 1.94 -3.23	34.76 1.80 -4.87	33.05 1.83 -3.08	34.13 1.79 -1.54	36.28 1.97 -4.98	40.48 1.82 -8.90	41.79 1.75 -4.40	45.89 2.09 -5.80	46.23 2.29 -1.53	50.29 2.00 -6.61	55.20 2.19 -8.40	59.87 2.29 -12.60	59.60 2.40 -10.95	72.77 2.82 -23.71	80.60 3.28 -28.42	84.56 3.99 -22.72	66.46 2.73 -19.78	56.00 2.90 -2.16	48.13 1.94 -10.26	46.48 1.56 -15.43	43.60 1.92 -10.21	37.90 2.21 -3.60
NYPA_HARLEM_RVR_GT2 24161	43.12 1.27 -12.31	39.27 1.52 -8.40	35.48 1.94 -3.23	34.76 1.80 -4.87	33.05 1.83 -3.08	34.13 1.79 -1.54	36.28 1.97 -4.98	40.48 1.82 -8.90	41.79 1.75 -4.40	45.89 2.09 -5.80	46.23 2.29 -1.53	50.29 2.00 -6.61	55.20 2.19 -8.40	59.87 2.29 -12.60	59.60 2.40 -10.95	72.77 2.82 -23.71	80.60 3.28 -28.42	84.56 3.99 -22.72	66.46 2.73 -19.78	56.00 2.90 -2.16	48.13 1.94 -10.26	46.48 1.56 -15.43	43.60 1.92 -10.21	37.90 2.21 -3.60
NYPA_KENT__GT 24152	43.14 1.30 -12.29	39.23 1.50 -8.39	35.44 1.91 -3.22	34.72 1.77 -4.86	33.04 1.83 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.90	42.12 2.07 -4.41	46.04 2.24 -5.80	46.40 2.46 -1.53	50.38 2.08 -6.62	55.33 2.32 -8.40	62.72 2.43 -15.32	64.10 2.50 -15.35	80.41 2.96 -31.21	82.04 3.47 -29.66	95.56 4.17 -33.54	74.92 2.90 -28.06	60.88 3.06 -6.89	48.20 2.01 -10.26	46.54 1.62 -15.43	43.70 2.02 -10.21	37.89 2.21 -3.59
NYPA_POUCH1__GT 24155	46.73 1.21 -15.97	41.02 1.41 -10.26	35.52 1.85 -3.36	34.67 1.71 -4.87	32.99 1.77 -3.07	34.07 1.72 -1.54	36.84 1.97 -5.53	43.16 1.93 -11.46	38.83 1.96 -1.23	40.99 2.09 -0.90	41.98 2.37 2.81	44.10 2.00 -0.42	48.09 2.27 -1.20	79.41 2.43 -32.01	85.41 2.50 -36.67	112.33 3.00 -63.09	95.51 3.52 -43.08	139.74 4.22 -77.66	109.27 2.90 -62.41	82.22 3.11 -28.18	43.09 2.01 -5.15	42.03 1.59 -10.95	40.62 2.02 -7.14	38.84 2.18 -4.57
NYPA_VERNON__GT2 24162	43.14 1.30 -12.29	39.23 1.50 -8.39	35.44 1.91 -3.22	34.72 1.77 -4.86	33.04 1.83 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.66 1.99 -8.90	42.12 2.07 -4.41	46.00 2.20 -5.80	46.40 2.46 -1.53	50.34 2.04 -6.62	55.24 2.23 -8.40	58.34 2.34 -11.03	57.05 2.40 -8.40	68.48 2.87 -19.38	79.92 3.33 -27.69	78.37 4.05 -16.47	61.73 2.82 -14.95	53.30 2.90 0.54	48.13 1.94 -10.26	46.51 1.59 -15.43	43.63 1.95 -10.21	37.86 2.18 -3.59



NYPA_VERNON____GT3 24163	43.14 1.30 -12.29	39.23 1.50 -8.39	35.44 1.91 -3.22	34.72 1.77 -4.86	33.04 1.83 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.66 1.99 -8.90	42.12 2.07 -4.41	46.00 2.20 -5.80	46.40 2.46 -1.53	50.34 2.04 -6.62	55.24 2.23 -8.40	58.34 2.34 -11.03	57.05 2.40 -8.40	68.48 2.87 -19.38	79.92 3.33 -27.69	78.37 4.05 -16.47	61.73 2.82 -14.95	53.30 2.90 0.54	48.13 1.94 -10.26	46.51 1.59 -15.43	43.63 1.95 -10.21	37.86 2.18 -3.59
NYPA__ASTORIA_CC1 323568	43.05 1.21 -12.29	39.20 1.47 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	32.99 1.77 -3.07	34.13 1.79 -1.54	36.31 2.00 -4.98	40.60 1.93 -8.90	42.01 1.96 -4.41	45.93 2.13 -5.80	46.27 2.33 -1.53	50.21 1.92 -6.61	55.11 2.10 -8.40	56.10 2.20 -8.93	53.50 2.27 -4.99	62.53 2.73 -13.57	78.80 3.18 -26.72	69.82 3.88 -8.09	55.16 2.68 -8.52	49.56 2.80 4.19	48.06 1.87 -10.26	46.42 1.50 -15.43	43.57 1.89 -10.21	37.83 2.15 -3.59
NYPA__ASTORIA_CC2 323569	43.05 1.21 -12.29	39.20 1.47 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	32.99 1.77 -3.07	34.13 1.79 -1.54	36.31 2.00 -4.98	40.60 1.93 -8.90	42.01 1.96 -4.41	45.93 2.13 -5.80	46.27 2.33 -1.53	50.21 1.92 -6.61	55.11 2.10 -8.40	56.10 2.20 -8.93	53.50 2.27 -4.99	62.53 2.73 -13.57	78.80 3.18 -26.72	69.82 3.88 -8.09	55.16 2.68 -8.52	49.56 2.80 4.19	48.06 1.87 -10.26	46.42 1.50 -15.43	43.57 1.89 -10.21	37.83 2.15 -3.59
NYPA__HOLTSVILL 23794	67.15 2.81 -34.79	54.24 2.96 -21.93	51.70 3.39 -18.00	43.82 3.17 -12.56	42.22 3.21 -10.87	43.95 3.42 -9.72	42.07 3.49 -9.24	43.55 3.51 -10.27	61.70 3.92 -22.14	63.60 4.11 -21.49	71.32 4.20 -24.71	89.12 3.75 -43.69	91.28 3.97 -42.70	126.14 3.96 -77.21	168.34 4.07 -118.02	167.11 4.30 -116.57	217.27 4.74 -163.62	230.26 5.67 -166.73	211.25 4.22 -163.07	169.12 4.74 -113.44	115.19 3.48 -75.77	106.64 2.89 -74.26	81.07 3.43 -46.17	76.66 3.59 -40.97
NYPA_____HELLGATE_GT1 24158	43.12 1.27 -12.31	39.27 1.52 -8.40	35.48 1.94 -3.23	34.76 1.80 -4.87	33.05 1.83 -3.08	34.13 1.79 -1.54	36.28 1.97 -4.98	40.51 1.85 -8.90	41.82 1.78 -4.40	45.93 2.13 -5.80	46.23 2.29 -1.53	50.34 2.04 -6.61	55.24 2.23 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.65 3.33 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.78	56.05 2.95 -2.16	48.17 1.98 -10.26	46.51 1.59 -15.43	43.63 1.95 -10.21	37.93 2.25 -3.60
NYPA_____HELLGATE_GT2 24159	43.12 1.27 -12.31	39.27 1.52 -8.40	35.48 1.94 -3.23	34.76 1.80 -4.87	33.05 1.83 -3.08	34.13 1.79 -1.54	36.28 1.97 -4.98	40.51 1.85 -8.90	41.82 1.78 -4.40	45.93 2.13 -5.80	46.23 2.29 -1.53	50.34 2.04 -6.61	55.24 2.23 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.65 3.33 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.78	56.05 2.95 -2.16	48.17 1.98 -10.26	46.51 1.59 -15.43	43.63 1.95 -10.21	37.93 2.25 -3.60
NYS_BARGE__HYD 23848	31.25 0.00 -1.70	30.27 -0.24 -1.16	30.27 -0.49 -0.45	27.98 -0.79 -0.67	27.67 -0.90 -0.43	30.28 -0.74 -0.21	29.59 -0.44 -0.69	30.31 -0.68 -1.23	34.79 -1.46 -0.61	37.14 -1.67 -0.80	40.93 -1.70 -0.21	41.34 -1.25 -0.91	44.39 -1.30 -1.08	45.61 -1.08 -1.71	46.50 -1.25 -1.50	47.68 -1.80 -3.25	50.98 -1.86 -3.93	58.65 -2.32 -3.11	44.96 -1.72 -2.71	49.31 -1.94 -0.30	37.54 0.18 -1.42	31.84 0.21 -2.14	32.70 -0.19 -1.42	32.75 0.16 -0.50
OAK ORCHARD__HYD 24046	31.31 0.41 -1.35	30.56 0.29 -0.92	30.75 0.09 -0.35	28.51 -0.11 -0.53	28.23 -0.25 -0.34	30.89 -0.09 -0.17	30.00 0.12 -0.55	30.83 0.09 -0.98	35.80 -0.32 -0.48	38.33 -0.31 -0.64	42.33 -0.25 -0.17	42.44 0.04 -0.72	45.51 0.04 -0.85	46.56 0.23 -1.36	47.48 0.05 -1.19	48.53 -0.28 -2.57	51.63 -0.39 -3.11	59.85 -0.46 -2.47	45.76 -0.35 -2.15	50.87 -0.30 -0.24	37.82 0.76 -1.13	31.78 0.59 -1.69	32.91 0.31 -1.12	32.84 0.35 -0.39
OAKDALE__35_KV_LOAD 356122	34.21 0.53 -4.13	32.63 0.47 -2.82	31.82 0.42 -1.08	30.03 0.31 -1.63	29.49 0.31 -1.03	31.76 0.43 -0.52	31.42 0.41 -1.68	33.18 0.42 -3.00	37.37 0.25 -1.48	40.26 0.30 -1.95	43.31 0.38 -0.52	44.38 0.50 -2.20	47.81 0.58 -2.61	49.81 0.67 -4.16	50.49 0.60 -3.64	54.58 0.46 -7.88	59.00 0.54 -9.55	65.99 0.58 -7.56	50.99 0.44 -6.59	52.13 0.46 -0.73	40.14 0.75 -3.46	35.31 0.62 -5.19	35.41 0.50 -3.44	33.87 0.58 -1.21
OCC_CHEM__DRP 24175	31.06 -0.24 -1.75	30.07 -0.47 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.63 -0.96 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.27 -2.00 -0.63	36.63 -2.20 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.71 -2.01 -1.11	44.81 -1.93 -1.77	45.71 -2.08 -1.54	47.04 -2.54 -3.34	50.18 -2.79 -4.06	57.71 -3.36 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.21	32.18 -0.76 -1.46	32.22 -0.39 -0.51
OH_GEN_PROXY 24063	31.22 -0.06 -1.73	30.26 -0.26 -1.18	30.28 -0.49 -0.45	27.99 -0.79 -0.68	27.67 -0.90 -0.43	30.32 -0.71 -0.22	29.60 -0.44 -0.70	30.33 -0.68 -1.26	34.77 -1.50 -0.62	37.15 -1.67 -0.82	40.85 -1.78 -0.92	41.23 -1.37 -0.92	44.28 -1.43 -1.09	45.55 -1.17 -1.74	46.43 -1.34 -1.53	47.69 -1.85 -3.30	51.00 -1.91 -4.00	58.70 -2.32 -3.17	44.96 -1.76 -2.76	49.26 -1.99 -0.31	37.42 0.04 -1.45	31.73 0.06 -2.18	32.53 -0.38 -1.44	32.47 -0.13 -0.51
OLIN_CORP_DRP 24177	31.02 -0.30 -1.77	30.03 -0.53 -1.21	30.02 -0.76 -0.46	27.73 -1.07 -0.70	27.49 -1.10 -0.44	30.01 -1.02 -0.22	29.32 -0.73 -0.72	30.04 -1.01 -1.29	34.42 -1.85 -0.64	36.71 -2.13 -0.84	40.43 -2.21 -0.22	40.87 -1.75 -0.94	43.91 -1.83 -1.12	45.10 -1.66 -1.79	45.96 -1.85 -1.56	47.35 -2.27 -3.38	50.47 -2.54 -4.10	58.09 -3.01 -3.25	44.59 -2.20 -2.83	48.76 -2.50 -0.31	37.17 -0.25 -1.48	31.52 -0.21 -2.23	32.35 -0.60 -1.48	32.25 -0.35 -0.52
OLIN_CORP_DSASP 323712	31.06 -0.24 -1.75	30.10 -0.44 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.57 -1.01 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.28 -2.00 -0.63	36.59 -2.24 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.63 -2.10 -1.11	44.85 -1.89 -1.77	45.71 -2.08 -1.55	46.99 -2.59 -3.34	50.27 -2.69 -4.05	57.82 -3.24 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.20	32.11 -0.82 -1.46	32.22 -0.38 -0.51
ONEIDA_HERK_LFGE 323681	30.26 0.71 0.00	30.02 0.68 0.00	30.88 0.57 0.00	28.62 0.53 0.00	28.65 0.51 0.00	31.36 0.56 0.00	29.72 0.38 0.00	30.24 0.47 0.00	36.25 0.61 0.00	38.84 0.84 0.00	43.43 1.02 0.00	42.89 1.21 0.00	45.77 1.16 0.00	46.10 1.12 0.00	47.35 1.11 0.00	47.25 1.02 0.00	49.98 1.07 0.00	58.95 1.10 0.00	44.75 0.79 0.00	51.86 0.92 0.00	36.69 0.76 0.00	30.05 0.56 0.00	32.04 0.57 0.00	32.54 0.45 0.00
ONEIDA__115KV_TB4 55905	30.52 0.98 0.00	30.28 0.94 0.00	31.13 0.82 0.00	28.82 0.73 0.00	28.88 0.73 0.00	31.64 0.83 0.00	30.01 0.67 0.00	30.54 0.77 0.00	36.60 0.96 0.00	39.14 1.14 0.00	43.81 1.40 0.00	43.30 1.63 0.00	46.22 1.61 0.00	46.55 1.57 0.00	47.82 1.57 0.00	47.67 1.43 0.00	50.47 1.57 0.00	59.53 1.68 0.00	45.15 1.19 0.00	52.32 1.38 0.00	37.05 1.11 0.00	30.35 0.86 0.00	32.29 0.82 0.00	32.83 0.74 0.00



ONONDAGA_REF_OCCRA 23987	30.75 0.03 -1.17	30.14 0.00 -0.80	30.53 -0.09 -0.31	28.39 -0.17 -0.46	28.30 -0.14 -0.29	30.86 -0.09 -0.15	29.72 -0.09 -0.47	30.58 -0.03 -0.85	35.88 -0.18 -0.42	38.44 -0.11 -0.55	42.51 -0.04 -0.15	42.39 0.08 -0.62	45.49 0.13 -0.74	46.38 0.22 -1.18	47.37 0.09 -1.03	48.51 0.05 -2.23	51.66 0.05 -2.70	59.94 -0.06 -2.14	45.74 -0.09 -1.86	50.99 -0.15 -0.21	37.09 0.18 -0.98	31.08 0.12 -1.47	32.44 0.00 -0.97	32.40 -0.03 -0.34
ONONDAGA___COGEN 23986	29.67 0.12 0.00	29.43 0.09 0.00	30.28 -0.03 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.78 -0.03 0.00	29.31 -0.03 0.00	29.79 0.03 0.00	35.53 -0.11 0.00	38.00 0.00 0.00	42.45 0.04 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.29 0.31 0.00	46.43 0.18 0.00	46.42 0.18 0.00	49.05 0.15 0.00	57.85 0.00 0.00	43.92 -0.04 0.00	50.84 -0.10 0.00	36.15 0.22 0.00	29.64 0.15 0.00	31.53 0.06 0.00	32.12 0.03 0.00
ONTARIO___LFGE 23819	31.87 0.68 -1.64	31.14 0.68 -1.12	31.20 0.46 -0.43	28.99 0.25 -0.65	28.78 0.22 -0.41	31.48 0.46 -0.21	30.53 0.53 -0.67	31.49 0.54 -1.19	36.37 0.14 -0.59	39.05 0.27 -0.78	43.00 0.38 -0.21	43.26 0.71 -0.88	46.32 0.67 -1.04	47.48 0.85 -1.65	48.39 0.69 -1.45	49.83 0.46 -3.13	53.14 0.44 -3.80	61.27 0.41 -3.01	46.89 0.31 -2.62	51.59 0.36 -0.29	38.24 0.93 -1.37	32.38 0.82 -2.06	33.31 0.47 -1.37	33.15 0.58 -0.48
ORANGEVILLE_WT_PWR 323706	32.30 0.59 -2.16	31.20 0.38 -1.47	31.03 0.15 -0.57	28.78 -0.17 -0.85	28.46 -0.23 -0.54	31.08 0.00 -0.27	30.39 0.18 -0.88	31.36 0.03 -1.57	35.85 -0.57 -0.78	38.34 -0.68 -1.02	42.09 -0.59 -0.27	42.62 -0.21 -1.15	45.76 -0.22 -1.37	47.20 0.05 -2.18	48.06 -0.09 -1.91	49.71 -0.65 -4.12	53.27 -0.64 -5.00	61.00 -0.81 -3.96	46.84 -0.57 -3.45	50.66 -0.66 -0.38	38.64 0.90 -1.81	32.95 0.74 -2.72	33.62 0.35 -1.80	33.30 0.58 -0.63
ORANGEVILLE___ESR 323794	32.30 0.59 -2.16	31.20 0.38 -1.47	31.03 0.15 -0.57	28.78 -0.17 -0.85	28.46 -0.23 -0.54	31.08 0.00 -0.27	30.39 0.18 -0.88	31.36 0.03 -1.57	35.85 -0.57 -0.78	38.34 -0.68 -1.02	42.09 -0.59 -0.27	42.62 -0.21 -1.15	45.76 -0.22 -1.37	47.20 0.05 -2.18	48.06 -0.09 -1.91	49.71 -0.65 -4.12	53.27 -0.64 -5.00	61.00 -0.81 -3.96	46.84 -0.57 -3.45	50.66 -0.66 -0.38	38.64 0.90 -1.81	32.95 0.74 -2.72	33.62 0.35 -1.80	33.30 0.58 -0.63
OSWEGATCHIE___HYD 24044	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.90 -0.20 0.00	27.86 -0.28 0.00	30.28 -0.52 0.00	28.63 -0.70 0.00	29.08 -0.68 0.00	34.82 -0.82 0.00	37.20 -0.80 0.00	41.48 -0.93 0.00	40.89 -0.79 0.00	43.63 -0.98 0.00	43.89 -1.08 0.00	45.18 -1.06 0.00	45.22 -1.02 0.00	47.73 -1.17 0.00	56.46 -1.39 0.00	42.95 -1.01 0.00	50.03 -0.92 0.00	35.11 -0.83 0.00	28.82 -0.68 0.00	30.94 -0.54 0.00	31.38 -0.71 0.00
OSWEGO___5 23606	29.04 -0.50 0.00	28.82 -0.53 0.00	29.70 -0.61 0.00	27.47 -0.62 0.00	27.52 -0.62 0.00	30.16 -0.65 0.00	28.75 -0.59 0.00	29.20 -0.57 0.00	34.86 -0.78 0.00	37.17 -0.84 0.00	41.52 -0.89 0.00	40.89 -0.79 0.00	43.76 -0.85 0.00	44.17 -0.81 0.00	45.36 -0.88 0.00	45.26 -0.97 0.00	47.88 -1.03 0.00	56.58 -1.27 0.00	42.99 -0.97 0.00	49.82 -1.12 0.00	35.36 -0.58 0.00	29.02 -0.47 0.00	30.91 -0.57 0.00	31.51 -0.58 0.00
OSWEGO___6 23613	29.04 -0.50 0.00	28.82 -0.53 0.00	29.70 -0.61 0.00	27.47 -0.62 0.00	27.52 -0.62 0.00	30.16 -0.65 0.00	28.75 -0.59 0.00	29.20 -0.57 0.00	34.86 -0.78 0.00	37.17 -0.84 0.00	41.52 -0.89 0.00	40.89 -0.79 0.00	43.76 -0.85 0.00	44.17 -0.81 0.00	45.36 -0.88 0.00	45.26 -0.97 0.00	47.88 -1.03 0.00	56.58 -1.27 0.00	42.99 -0.97 0.00	49.82 -1.12 0.00	35.36 -0.58 0.00	29.02 -0.47 0.00	30.91 -0.57 0.00	31.51 -0.58 0.00
OUTOKUMPU-AB___DRP 24206	31.72 0.38 -1.79	30.71 0.15 -1.22	30.69 -0.09 -0.47	28.35 -0.45 -0.71	28.14 -0.45 -0.45	30.66 -0.37 -0.22	29.95 -0.12 -0.73	30.71 -0.36 -1.30	35.22 -1.07 -0.64	37.63 -1.22 -0.85	41.28 -1.36 -0.22	41.76 -0.88 -0.95	44.90 -0.85 -1.13	46.10 -0.67 -1.80	46.99 -0.83 -1.58	48.36 -1.29 -3.42	51.54 -1.52 -4.15	59.23 -1.91 -3.28	45.46 -1.36 -2.86	49.68 -1.58 -0.32	38.01 0.57 -1.50	32.19 0.44 -2.26	33.03 0.06 -1.49	33.00 0.39 -0.52
OXBOW____ 24026	31.32 0.00 -1.77	30.32 -0.24 -1.21	30.32 -0.45 -0.46	28.04 -0.76 -0.70	27.74 -0.84 -0.44	30.29 -0.74 -0.22	29.56 -0.50 -0.72	30.25 -0.80 -1.29	34.64 -1.64 -0.64	37.02 -1.82 -0.84	40.64 -1.99 -0.22	41.12 -1.50 -0.94	44.13 -1.60 -1.12	45.36 -1.39 -1.79	46.23 -1.57 -1.56	47.49 -2.13 -3.38	50.86 -2.15 -4.10	58.44 -2.66 -3.25	44.77 -2.02 -2.83	48.96 -2.29 -0.31	37.38 -0.04 -1.48	31.69 -0.03 -2.23	32.44 -0.50 -1.47	32.70 0.10 -0.52
OXY_CHEM_DSASP 323612	31.06 -0.24 -1.75	30.07 -0.47 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.63 -0.96 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.27 -2.00 -0.63	36.63 -2.20 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.71 -2.01 -1.11	44.81 -1.93 -1.77	45.71 -2.08 -1.54	47.04 -2.54 -3.34	50.18 -2.79 -4.06	57.71 -3.36 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.21	32.18 -0.76 -1.46	32.22 -0.39 -0.51
OZONE_PARK_ESR 323760	43.53 1.68 -12.30	39.49 1.76 -8.39	35.68 2.15 -3.22	34.95 1.99 -4.86	33.27 2.05 -3.07	34.50 2.16 -1.54	36.60 2.29 -4.98	40.99 2.32 -8.90	42.62 2.57 -4.41	46.54 2.74 -5.80	47.00 3.05 -1.54	51.01 2.71 -6.62	55.97 2.94 -8.41	60.69 3.10 -12.61	60.39 3.19 -10.96	73.61 3.65 -23.72	81.48 4.16 -28.41	85.60 5.03 -22.71	67.33 3.60 -19.77	56.77 3.67 -2.17	48.72 2.52 -10.27	46.96 2.04 -15.43	44.07 2.39 -10.21	38.24 2.57 -3.59
PACKARD_115_KV_ADAMS_187_REV_LBMP_A 345013	31.06 -0.24 -1.75	30.07 -0.47 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.63 -0.96 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.27 -2.00 -0.63	36.63 -2.20 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.71 -2.01 -1.11	44.81 -1.93 -1.77	45.71 -2.08 -1.54	47.04 -2.54 -3.34	50.18 -2.79 -4.06	57.71 -3.36 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.21	32.18 -0.76 -1.46	32.22 -0.39 -0.51
PACKARD___115KV_DUPONT_184 80571	31.06 -0.24 -1.75	30.07 -0.47 -1.20	30.13 -0.64 -0.46	27.86 -0.93 -0.69	27.63 -0.96 -0.44	30.10 -0.92 -0.22	29.37 -0.67 -0.71	29.96 -1.07 -1.27	34.27 -2.00 -0.63	36.63 -2.20 -0.83	40.21 -2.42 -0.22	40.65 -1.96 -0.93	43.71 -2.01 -1.11	44.81 -1.93 -1.77	45.71 -2.08 -1.54	47.04 -2.54 -3.34	50.18 -2.79 -4.06	57.71 -3.36 -3.21	44.30 -2.46 -2.80	48.50 -2.75 -0.31	36.97 -0.43 -1.47	31.35 -0.35 -2.21	32.18 -0.76 -1.46	32.22 -0.39 -0.51
PARKCHTR_138_KV_TB2S_REV_LBMP_J 345007	43.18 1.33 -12.31	39.33 1.58 -8.40	35.51 1.97 -3.23	34.79 1.83 -4.87	33.11 1.89 -3.08	34.19 1.85 -1.54	36.31 1.99 -4.98	40.54 1.88 -8.91	41.90 1.85 -4.41	45.96 2.17 -5.80	46.32 2.37 -1.53	50.34 2.04 -6.61	55.20 2.19 -8.40	59.91 2.34 -12.60	59.60 2.40 -10.95	72.81 2.87 -23.71	80.60 3.28 -28.42	84.62 4.05 -22.72	66.51 2.77 -19.77	56.05 2.95 -2.16	48.17 1.98 -10.26	46.54 1.62 -15.42	43.63 1.95 -10.21	38.06 2.37 -3.60



PARKCHTR_13_KV_CPCTY_REV_LBMP_J 345019	43.45 1.60 -12.31	39.59 1.85 -8.40	35.81 2.27 -3.23	35.04 2.08 -4.87	33.36 2.14 -3.08	34.44 2.10 -1.54	36.51 2.20 -4.98	40.72 2.05 -8.91	42.08 2.03 -4.41	46.34 2.55 -5.80	46.74 2.80 -1.53	50.71 2.42 -6.61	55.65 2.63 -8.40	60.32 2.74 -12.60	60.06 2.87 -10.95	73.27 3.33 -23.71	81.14 3.81 -28.42	84.97 4.40 -22.72	66.77 3.03 -19.77	56.31 3.21 -2.16	48.35 2.16 -10.26	46.72 1.80 -15.42	43.88 2.20 -10.21	38.25 2.57 -3.60
PATROON__115KV_TB1 80586	61.03 1.21 -30.28	51.20 1.20 -20.65	39.55 1.30 -7.93	41.27 1.21 -11.97	36.92 1.21 -7.57	35.92 1.32 -3.78	42.69 1.20 -12.15	48.83 1.22 -17.84	47.83 1.43 -10.77	53.69 1.52 -14.17	38.07 1.74 6.08	42.10 1.63 1.20	57.10 1.74 -10.75	56.73 1.75 -10.00	52.58 1.80 -4.53	65.52 1.76 -17.52	76.54 1.91 -25.72	72.16 2.26 -12.05	59.34 1.67 -13.71	37.37 1.94 15.51	54.77 1.40 -17.43	53.59 1.15 -22.94	43.83 1.26 -11.10	41.27 1.32 -7.87
PAVMNTRD_115_KV_BK1_REV_LBMP_A 345030	32.27 0.74 -1.98	31.20 0.50 -1.35	31.07 0.24 -0.52	28.76 -0.11 -0.78	28.53 -0.11 -0.50	31.09 0.03 -0.25	30.41 0.26 -0.80	31.32 0.12 -1.44	35.85 -0.50 -0.71	38.37 -0.57 -0.94	42.19 -0.47 -0.25	42.78 0.04 -1.06	46.00 0.13 -1.25	47.42 0.45 -2.00	48.32 0.32 -1.75	49.84 -0.18 -3.78	53.20 -0.29 -4.59	60.97 -0.52 -3.63	46.82 -0.31 -3.17	50.78 -0.51 -0.35	38.67 1.08 -1.66	32.87 0.88 -2.50	33.59 0.47 -1.65	33.34 0.67 -0.58
PAWLING_115_KV_BK3_REV_LBMP_H 345028	43.94 1.86 -12.54	39.83 1.94 -8.55	35.72 2.12 -3.28	35.01 1.97 -4.96	33.19 1.91 -3.13	34.47 2.10 -1.57	36.58 2.17 -5.07	41.07 2.20 -9.10	42.64 2.49 -4.51	46.52 2.58 -5.93	46.95 2.97 -1.57	51.16 2.79 -6.69	55.72 3.17 -7.94	60.89 3.28 -12.64	60.73 3.42 -11.06	73.92 3.75 -23.94	81.98 4.16 -28.92	85.78 5.03 -22.90	67.52 3.60 -19.95	56.87 3.72 -2.21	48.88 2.48 -10.46	47.26 2.04 -15.73	44.08 2.20 -10.41	38.22 2.47 -3.66
PEEKSKILL____ 23653	43.04 1.36 -12.13	39.06 1.44 -8.28	35.18 1.70 -3.18	34.49 1.60 -4.80	32.78 1.60 -3.03	34.05 1.72 -1.52	36.04 1.79 -4.91	40.36 1.82 -8.79	41.99 1.99 -4.35	45.86 2.13 -5.73	46.30 2.37 -1.52	50.30 2.08 -6.53	55.26 2.36 -8.28	59.84 2.43 -12.44	59.60 2.54 -10.81	72.45 2.82 -23.39	80.17 3.23 -28.03	84.13 3.88 -22.40	66.28 2.82 -19.50	55.93 2.85 -2.14	48.04 1.98 -10.13	46.34 1.62 -15.23	43.40 1.86 -10.07	37.59 1.96 -3.54
PGE MADISON__WINDPWR 24146	37.21 2.84 -4.83	35.40 2.76 -3.29	34.09 2.51 -1.27	32.28 2.27 -1.91	31.60 2.25 -1.21	33.97 2.56 -0.60	33.47 2.17 -1.96	35.69 2.41 -3.51	39.98 2.60 -1.74	43.33 3.04 -2.29	46.62 3.60 -0.61	48.35 4.09 -2.58	51.96 4.28 -3.06	54.08 4.23 -4.88	54.68 4.16 -4.27	59.50 4.02 -9.24	64.31 4.21 -11.20	71.46 4.74 -8.87	55.42 3.73 -7.72	56.18 4.38 -0.85	43.51 3.52 -4.05	38.41 2.83 -6.09	38.27 2.77 -4.03	36.20 2.70 -1.42
PIERCEFIELD__HYD 23852	29.19 -0.35 0.00	28.99 -0.35 0.00	29.79 -0.52 0.00	27.64 -0.45 0.00	27.55 -0.59 0.00	29.88 -0.92 0.00	28.28 -1.06 0.00	28.72 -1.04 0.00	34.50 -1.14 0.00	36.86 -1.14 0.00	41.05 -1.36 0.00	40.39 -1.29 0.00	43.14 -1.47 0.00	43.36 -1.62 0.00	44.77 -1.48 0.00	44.80 -1.43 0.00	47.15 -1.76 0.00	55.65 -2.20 0.00	42.38 -1.58 0.00	49.41 -1.53 0.00	34.46 -1.47 0.00	28.25 -1.24 0.00	30.56 -0.91 0.00	31.00 -1.09 0.00
PINELAWN_CC_1 323563	66.97 2.63 -34.79	54.01 2.73 -21.93	51.39 3.09 -17.99	43.51 2.87 -12.55	41.90 2.90 -10.86	43.64 3.11 -9.72	41.77 3.20 -9.23	43.11 3.22 -10.14	61.41 3.64 -22.13	63.32 3.84 -21.48	70.93 4.03 -24.49	74.00 3.21 -29.11	75.85 3.44 -27.81	80.92 3.51 -32.44	88.65 3.56 -38.84	98.73 3.74 -48.75	120.71 4.15 -67.64	123.75 5.15 -60.75	99.01 3.82 -51.22	87.00 4.33 -31.74	76.11 3.16 -37.01	69.67 2.83 -37.35	50.79 3.30 -16.02	65.31 3.44 -29.79
PJM_GEN_HTP_PROXY 323702	43.23 1.39 -12.30	39.23 1.50 -8.39	35.35 1.82 -3.22	34.67 1.71 -4.86	32.96 1.75 -3.07	34.19 1.85 -1.54	36.28 1.97 -4.98	40.66 1.99 -8.90	42.23 2.17 -4.41	46.16 2.36 -5.80	46.58 2.63 -1.54	50.55 2.25 -6.62	55.52 2.50 -8.41	60.19 2.61 -12.61	59.88 2.68 -10.96	73.05 3.10 -23.72	80.79 3.47 -28.41	84.79 4.22 -22.71	66.72 2.99 -19.77	56.11 3.00 -2.17	48.28 2.08 -10.27	46.61 1.68 -15.43	43.70 2.02 -10.21	37.79 2.12 -3.59
PJM_GEN_KEystone 24065	34.80 0.59 -4.66	33.03 0.56 -3.13	30.50 0.61 0.42	27.70 0.45 0.84	27.70 0.45 0.89	28.63 0.56 2.73	32.97 0.70 -2.93	35.40 0.63 -5.01	37.45 0.39 -1.42	40.93 0.38 -2.55	43.19 0.51 -0.27	45.20 0.50 -3.02	48.80 0.58 -3.61	51.84 0.76 -6.10	52.20 0.79 -5.17	59.44 0.69 -12.51	65.48 0.88 -15.69	67.03 1.04 -8.13	54.80 0.70 -10.14	46.93 0.61 4.62	42.31 0.93 -5.44	38.97 0.80 -8.68	37.89 0.69 -5.72	35.01 0.90 -2.03
PJM_GEN_NEPTUNE_PROXY 323594	66.29 1.95 -34.79	53.33 2.05 -21.93	50.68 2.39 -17.98	42.85 2.22 -12.54	41.27 2.28 -10.85	42.92 2.40 -9.71	41.05 2.49 -9.22	41.61 2.50 -9.35	60.54 2.78 -22.11	62.40 2.93 -21.47	69.98 3.09 -24.48	72.47 2.71 -28.08	74.31 2.94 -26.76	77.28 3.01 -29.29	82.61 3.10 -33.27	93.59 3.37 -43.98	113.62 3.82 -60.89	117.46 4.57 -55.03	92.40 3.34 -45.10	80.49 3.56 -25.99	72.73 2.51 -34.28	66.34 2.09 -34.75	47.89 2.52 -13.90	63.39 2.66 -28.64
PJM_GEN_VFT_PROXY 323633	34.96 1.12 -4.29	34.93 1.26 -4.32	34.84 1.61 -2.92	34.47 1.52 -4.86	32.82 1.60 -3.07	33.98 1.63 -1.54	34.87 1.76 -3.77	34.87 1.76 -3.35	35.00 1.89 2.52	35.19 2.09 4.90	36.76 2.29 7.94	36.68 1.92 6.92	39.42 2.14 7.33	39.86 2.25 7.36	39.64 2.31 8.92	48.43 2.73 0.53	58.83 3.13 -6.79	53.47 3.82 8.20	41.64 2.68 5.00	37.78 2.65 15.80	36.83 1.80 0.90	36.59 1.44 -5.65	36.76 1.79 -3.50	35.45 1.89 -1.47
PLATSBURG_115KV_PMLD1 355749	29.58 0.03 0.00	29.34 0.00 0.00	30.16 -0.15 0.00	27.98 -0.11 0.00	28.06 -0.08 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.93 0.29 0.00	38.31 0.30 0.00	42.66 0.25 0.00	41.93 0.25 0.00	44.84 0.22 0.00	45.15 0.18 0.00	46.57 0.32 0.00	46.51 0.28 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.22 0.26 0.00	51.50 0.56 0.00	35.97 0.04 0.00	29.49 0.00 0.00	31.53 0.06 0.00	32.02 -0.06 0.00
PLEASANTVLY__LBMP 24000	43.88 1.33 -13.00	39.59 1.38 -8.87	35.35 1.64 -3.41	34.78 1.55 -5.14	32.94 1.55 -3.25	34.10 1.66 -1.63	36.30 1.70 -5.26	40.91 1.73 -9.42	42.20 1.89 -4.67	46.16 2.01 -6.14	46.29 2.25 -1.63	50.66 1.96 -7.02	55.69 2.10 -8.98	60.51 2.16 -13.37	60.08 2.22 -11.61	73.86 2.50 -25.13	81.79 2.84 -30.05	85.32 3.41 -24.05	67.35 2.46 -20.93	55.78 2.55 -2.29	48.62 1.83 -10.86	47.32 1.50 -16.32	44.00 1.73 -10.80	37.78 1.89 -3.79
PLSNTVLE_13_KV_13.8KVDIST 80602	43.47 1.51 -12.41	39.37 1.56 -8.47	35.38 1.82 -3.25	34.71 1.71 -4.91	32.99 1.74 -3.10	34.21 1.85 -1.55	36.30 1.94 -5.02	40.75 1.99 -8.99	42.30 2.21 -4.45	46.22 2.36 -5.86	46.63 2.67 -1.55	50.74 2.38 -6.69	55.73 2.63 -8.49	60.40 2.70 -12.73	60.13 2.82 -11.06	73.32 3.14 -23.94	81.16 3.57 -28.68	85.06 4.28 -22.93	67.03 3.12 -19.95	56.29 3.16 -2.19	48.49 2.19 -10.36	46.87 1.80 -15.58	43.82 2.05 -10.31	37.92 2.21 -3.62



PLSNTVLE_13_KV_13KVDISA_REV_LBMP_I 345020	43.47 1.51 -12.41	39.37 1.56 -8.47	35.38 1.82 -3.25	34.71 1.71 -4.91	32.99 1.74 -3.10	34.21 1.85 -1.55	36.30 1.94 -5.02	40.75 1.99 -8.99	42.30 2.21 -4.45	46.22 2.36 -5.86	46.63 2.67 -1.55	50.74 2.38 -6.69	55.73 2.63 -8.49	60.40 2.70 -12.73	60.13 2.82 -11.06	73.32 3.14 -23.94	81.16 3.57 -28.68	85.06 4.28 -22.93	67.03 3.12 -19.95	56.29 3.16 -2.19	48.49 2.19 -10.36	46.87 1.80 -15.58	43.82 2.05 -10.31	37.92 2.21 -3.62
PLSTVYCH_69_KV_RQ-3_RG2_REV_LBMP_G 345023	44.12 1.65 -12.92	39.83 1.67 -8.81	35.57 1.88 -3.38	34.94 1.74 -5.11	33.12 1.74 -3.23	34.30 1.88 -1.61	36.47 1.91 -5.23	41.06 1.90 -9.39	42.43 2.14 -4.65	46.40 2.28 -6.12	46.62 2.59 -1.62	50.96 2.29 -6.99	55.85 2.32 -8.91	60.67 2.38 -13.31	60.31 2.50 -11.57	74.04 2.77 -25.03	81.89 3.13 -29.85	85.50 3.76 -23.89	67.52 2.77 -20.79	56.07 2.85 -2.28	48.70 1.98 -10.79	47.36 1.65 -16.22	44.09 1.89 -10.73	37.94 2.09 -3.77
POLETTI____ 23519	43.17 1.33 -12.30	39.17 1.44 -8.39	35.35 1.82 -3.22	34.64 1.69 -4.86	32.96 1.74 -3.07	34.16 1.82 -1.54	36.28 1.97 -4.98	40.63 1.96 -8.90	42.19 2.14 -4.41	46.09 2.28 -5.80	46.49 2.54 -1.54	50.47 2.17 -6.62	55.34 2.32 -8.41	60.06 2.47 -12.61	59.75 2.54 -10.96	72.91 2.96 -23.72	80.74 3.42 -28.41	84.67 4.11 -22.71	66.63 2.90 -19.77	56.01 2.90 -2.17	48.21 2.01 -10.27	46.55 1.62 -15.43	43.63 1.95 -10.21	37.86 2.18 -3.59
POMONA____ESR 323819	42.54 1.27 -11.73	38.69 1.35 -8.00	34.99 1.61 -3.07	34.22 1.49 -4.64	32.59 1.52 -2.93	33.88 1.60 -1.47	35.75 1.67 -4.74	39.95 1.70 -8.49	41.73 1.89 -4.20	45.55 2.01 -5.53	46.17 2.29 -1.47	49.91 2.00 -6.23	54.16 2.14 -7.40	59.00 2.25 -11.78	58.91 2.36 -10.31	71.19 2.64 -22.32	78.99 3.03 -27.05	82.86 3.59 -21.42	65.22 2.59 -18.66	55.60 2.60 -2.07	47.52 1.80 -9.79	45.71 1.50 -14.72	42.91 1.70 -9.74	37.40 1.89 -3.42
PORT_JEFF_3 23555	67.17 2.84 -34.79	54.30 3.02 -21.93	51.76 3.45 -18.00	43.85 3.20 -12.56	42.27 3.26 -10.87	44.01 3.48 -9.72	42.13 3.55 -9.24	43.61 3.57 -10.27	61.81 4.03 -22.14	63.68 4.18 -21.50	71.50 4.37 -24.72	89.72 3.71 -44.33	91.85 3.88 -43.36	128.03 3.87 -79.18	171.74 3.98 -121.52	170.01 4.21 -119.56	221.41 4.65 -167.85	239.62 5.55 -176.21	220.90 4.13 -172.81	172.62 4.64 -117.04	116.79 3.38 -77.48	108.30 2.92 -75.88	82.53 3.56 -47.50	77.33 3.75 -41.49
PORT_JEFF_4 23616	67.17 2.84 -34.79	54.30 3.02 -21.93	51.76 3.45 -18.00	43.85 3.20 -12.56	42.27 3.26 -10.87	44.01 3.48 -9.72	42.13 3.55 -9.24	43.61 3.57 -10.27	61.81 4.03 -22.14	63.68 4.18 -21.50	71.50 4.37 -24.72	89.72 3.71 -44.33	91.85 3.88 -43.36	128.03 3.87 -79.18	171.74 3.98 -121.52	170.01 4.21 -119.56	221.41 4.65 -167.85	239.62 5.55 -176.21	220.90 4.13 -172.81	172.62 4.64 -117.04	116.79 3.38 -77.48	108.30 2.92 -75.88	82.53 3.56 -47.50	77.33 3.75 -41.49
PORT_JEFF_IC 23713	67.26 2.93 -34.79	54.36 3.08 -21.93	51.82 3.51 -18.00	43.94 3.29 -12.56	42.33 3.32 -10.87	44.07 3.54 -9.72	42.22 3.64 -9.25	43.69 3.66 -10.27	61.91 4.13 -22.14	63.79 4.29 -21.50	71.66 4.49 -24.75	92.23 3.83 -46.72	94.34 3.93 -45.80	135.39 3.91 -86.50	184.72 4.02 -134.46	181.13 4.25 -130.65	237.14 4.70 -183.54	273.34 5.67 -209.81	255.55 4.22 -207.37	186.02 4.68 -130.40	123.17 3.42 -83.82	114.33 2.92 -81.92	87.49 3.59 -52.43	79.31 3.85 -43.37
PPL PILGRIM_ST_GT1 24216	67.38 3.04 -34.79	54.45 3.17 -21.93	51.84 3.54 -17.99	43.93 3.29 -12.55	42.32 3.32 -10.86	44.10 3.57 -9.72	42.15 3.58 -9.23	43.64 3.63 -10.24	61.87 4.10 -22.13	63.86 4.37 -21.49	71.43 4.49 -24.53	77.11 4.04 -31.39	79.12 4.37 -30.14	88.55 4.14 -39.44	101.78 4.30 -51.23	109.99 4.39 -59.36	136.41 4.84 -82.66	137.04 5.78 -73.41	113.07 4.31 -64.80	100.45 5.00 -44.52	82.78 3.77 -43.08	75.71 3.10 -43.12	55.83 3.62 -20.74	67.38 3.75 -31.54
PPL PILGRIM_ST_GT2 24217	67.38 3.04 -34.79	54.45 3.17 -21.93	51.84 3.54 -17.99	43.93 3.29 -12.55	42.32 3.32 -10.86	44.10 3.57 -9.72	42.15 3.58 -9.23	43.64 3.63 -10.24	61.87 4.10 -22.13	63.86 4.37 -21.49	71.43 4.49 -24.53	77.11 4.04 -31.39	79.12 4.37 -30.14	88.55 4.14 -39.44	101.78 4.30 -51.23	109.99 4.39 -59.36	136.41 4.84 -82.66	137.04 5.78 -73.41	113.07 4.31 -64.80	100.45 5.00 -44.52	82.78 3.77 -43.08	75.71 3.10 -43.12	55.83 3.62 -20.74	67.38 3.75 -31.54
PPL_SHRM_GT3 24213	67.05 2.72 -34.79	54.27 2.99 -21.93	51.82 3.51 -18.00	44.02 3.37 -12.56	42.44 3.43 -10.87	44.13 3.60 -9.72	42.34 3.76 -9.24	43.72 3.69 -10.27	61.81 4.03 -22.14	63.64 4.14 -21.50	71.71 4.58 -24.72	90.68 4.38 -44.63	93.00 4.73 -43.66	129.66 4.59 -80.09	174.03 4.67 -123.12	172.03 4.85 -120.94	223.94 5.24 -169.79	245.71 6.07 -181.79	227.08 4.61 -178.50	174.99 5.35 -118.70	118.26 4.06 -78.27	109.43 3.30 -76.63	83.26 3.68 -48.11	77.73 3.91 -41.72
PPL_SHRM_GT4 24214	67.05 2.72 -34.79	54.27 2.99 -21.93	51.82 3.51 -18.00	44.02 3.37 -12.56	42.44 3.43 -10.87	44.13 3.60 -9.72	42.34 3.76 -9.24	43.72 3.69 -10.27	61.81 4.03 -22.14	63.64 4.14 -21.50	71.71 4.58 -24.72	90.68 4.38 -44.63	93.00 4.73 -43.66	129.66 4.59 -80.09	174.03 4.67 -123.12	172.03 4.85 -120.94	223.94 5.24 -169.79	245.71 6.07 -181.79	227.08 4.61 -178.50	174.99 5.35 -118.70	118.26 4.06 -78.27	109.43 3.30 -76.63	83.26 3.68 -48.11	77.73 3.91 -41.72
PROJECT___ORANGE 1 24174	29.49 -0.06 0.00	29.26 -0.09 0.00	30.10 -0.21 0.00	27.84 -0.25 0.00	27.89 -0.25 0.00	30.59 -0.22 0.00	29.13 -0.21 0.00	29.61 -0.15 0.00	35.36 -0.29 0.00	37.77 -0.23 0.00	42.20 -0.21 0.00	41.60 -0.08 0.00	44.57 -0.04 0.00	45.02 0.04 0.00	46.15 -0.09 0.00	46.10 -0.14 0.00	48.71 -0.20 0.00	57.56 -0.29 0.00	43.65 -0.31 0.00	50.53 -0.41 0.00	35.93 0.00 0.00	29.46 -0.03 0.00	31.34 -0.13 0.00	31.93 -0.16 0.00
PROJECT___ORANGE 2 24166	29.49 -0.06 0.00	29.26 -0.09 0.00	30.10 -0.21 0.00	27.84 -0.25 0.00	27.89 -0.25 0.00	30.59 -0.22 0.00	29.13 -0.21 0.00	29.61 -0.15 0.00	35.36 -0.29 0.00	37.77 -0.23 0.00	42.20 -0.21 0.00	41.60 -0.08 0.00	44.57 -0.04 0.00	45.02 0.04 0.00	46.15 -0.09 0.00	46.10 -0.14 0.00	48.71 -0.20 0.00	57.56 -0.29 0.00	43.65 -0.31 0.00	50.53 -0.41 0.00	35.93 0.00 0.00	29.46 -0.03 0.00	31.34 -0.13 0.00	31.93 -0.16 0.00
PUCKETT___SOLAR 323809	35.25 1.09 -4.61	33.54 1.05 -3.14	32.49 0.97 -1.21	30.73 0.82 -1.82	30.08 0.79 -1.15	32.37 0.99 -0.58	32.09 0.88 -1.87	33.97 0.86 -3.35	38.05 0.75 -1.66	41.02 0.84 -2.18	43.96 0.98 -0.58	45.30 1.17 -2.46	48.74 1.21 -2.92	50.92 1.31 -4.65	51.51 1.20 -4.07	56.15 1.11 -8.80	60.84 1.27 -10.66	67.74 1.45 -8.44	52.51 1.19 -7.36	53.18 1.42 -0.81	41.27 1.47 -3.86	36.48 1.18 -5.80	36.38 1.07 -3.84	34.56 1.12 -1.35
PYRITES___HYD 24023	29.69 0.15 0.00	29.49 0.15 0.00	30.25 -0.06 0.00	28.09 0.00 0.00	28.03 -0.11 0.00	30.47 -0.34 0.00	28.81 -0.53 0.00	29.23 -0.54 0.00	35.14 -0.50 0.00	37.70 -0.30 0.00	42.03 -0.38 0.00	41.47 -0.21 0.00	44.30 -0.31 0.00	44.43 -0.54 0.00	45.87 -0.37 0.00	45.87 -0.37 0.00	48.32 -0.59 0.00	56.81 -1.04 0.00	43.26 -0.70 0.00	50.48 -0.46 0.00	35.18 -0.75 0.00	28.87 -0.62 0.00	31.12 -0.35 0.00	31.51 -0.58 0.00



QUAKERRD_115KV_BK1 80622	30.39 -0.44 -1.28	29.69 -0.53 -0.88	29.92 -0.73 -0.34	27.76 -0.84 -0.51	27.54 -0.93 -0.32	30.08 -0.89 -0.16	29.18 -0.67 -0.52	30.04 -0.65 -0.93	34.96 -1.14 -0.46	37.47 -1.14 -0.61	41.38 -1.19 -0.16	41.45 -0.92 -0.68	44.49 -0.94 -0.81	45.46 -0.81 -1.29	46.36 -1.02 -1.13	47.44 -1.25 -2.45	50.41 -1.47 -2.97	58.41 -1.79 -2.35	44.65 -1.36 -2.05	49.69 -1.48 -0.23	36.72 -0.29 -1.07	30.84 -0.27 -1.61	32.00 -0.54 -1.07	31.89 -0.58 -0.38
QUENSBRY_115KV_TB8 356137	71.96 2.87 -39.55	59.11 2.79 -26.98	43.40 2.73 -10.36	46.20 2.47 -15.63	40.48 2.45 -9.88	38.49 2.74 -4.94	48.48 2.58 -16.56	65.23 2.65 -32.81	53.39 3.07 -14.68	60.63 3.31 -19.32	59.23 3.69 -13.13	82.29 3.92 -36.69	88.58 4.15 -39.81	109.74 4.36 -60.40	106.10 4.44 -55.42	164.07 4.21 -113.62	183.44 4.21 -130.33	174.94 4.69 -112.41	142.88 3.82 -95.09	79.42 4.33 -24.15	79.55 3.23 -40.38	95.75 2.89 -63.36	79.58 2.86 -45.25	47.68 2.92 -12.67
RAMAPO___LBMP 323565	42.40 1.18 -11.67	38.57 1.26 -7.96	34.85 1.49 -3.06	34.11 1.40 -4.61	32.50 1.44 -2.92	33.78 1.51 -1.46	35.64 1.58 -4.72	39.82 1.61 -8.45	41.57 1.75 -4.18	45.37 1.86 -5.51	45.99 2.12 -1.46	49.72 1.83 -6.21	53.99 2.01 -7.37	58.77 2.07 -11.73	58.68 2.17 -10.26	70.91 2.45 -22.22	78.68 2.84 -26.93	82.59 3.41 -21.33	64.96 2.42 -18.58	55.44 2.45 -2.06	47.37 1.69 -9.74	45.56 1.42 -14.65	42.77 1.61 -9.69	37.29 1.80 -3.41
RANKINE____ 23646	32.16 0.68 -1.93	31.10 0.44 -1.32	31.00 0.18 -0.51	28.69 -0.17 -0.76	28.43 -0.20 -0.48	31.02 -0.03 -0.24	30.33 0.21 -0.78	31.22 0.06 -1.40	35.73 -0.61 -0.69	38.23 -0.68 -0.91	42.02 -0.64 -0.24	42.58 -0.13 -1.03	45.79 -0.04 -1.22	47.10 0.18 -1.94	47.99 0.05 -1.70	49.50 -0.42 -3.68	52.84 -0.54 -4.47	60.58 -0.81 -3.54	46.52 -0.53 -3.08	50.57 -0.71 -0.34	38.59 1.04 -1.62	32.78 0.86 -2.43	33.52 0.44 -1.61	33.30 0.64 -0.56
RAVENSWOOD_GT2_1 24244	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	32.99 1.77 -3.07	34.19 1.85 -1.54	36.31 2.00 -4.98	40.66 1.99 -8.90	42.23 2.17 -4.41	46.12 2.32 -5.80	46.54 2.59 -1.54	50.47 2.17 -6.62	55.38 2.36 -8.41	60.06 2.47 -12.61	59.74 2.54 -10.96	72.92 2.96 -23.72	80.74 3.42 -28.41	84.67 4.11 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.25 2.05 -10.27	46.61 1.68 -15.43	43.70 2.02 -10.21	37.83 2.15 -3.59
RAVENSWOOD_GT2_2 24245	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	32.99 1.77 -3.07	34.19 1.85 -1.54	36.31 2.00 -4.98	40.66 1.99 -8.90	42.23 2.17 -4.41	46.12 2.32 -5.80	46.54 2.59 -1.54	50.47 2.17 -6.62	55.38 2.36 -8.41	60.06 2.47 -12.61	59.74 2.54 -10.96	72.92 2.96 -23.72	80.74 3.42 -28.41	84.67 4.11 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.25 2.05 -10.27	46.61 1.68 -15.43	43.70 2.02 -10.21	37.83 2.15 -3.59
RAVENSWOOD_GT2_3 24246	43.23 1.39 -12.30	39.26 1.52 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.69 2.02 -8.90	42.23 2.17 -4.41	46.16 2.36 -5.80	46.58 2.63 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.10 2.52 -12.61	59.79 2.59 -10.96	72.96 3.00 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.11 3.00 -2.17	48.28 2.08 -10.27	46.61 1.68 -15.43	43.73 2.04 -10.21	37.86 2.18 -3.59
RAVENSWOOD_GT2_4 24247	43.23 1.39 -12.30	39.26 1.52 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.69 2.02 -8.90	42.23 2.17 -4.41	46.16 2.36 -5.80	46.58 2.63 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.10 2.52 -12.61	59.79 2.59 -10.96	72.96 3.00 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.11 3.00 -2.17	48.28 2.08 -10.27	46.61 1.68 -15.43	43.73 2.04 -10.21	37.86 2.18 -3.59
RAVENSWOOD_GT3_1 24248	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	32.99 1.77 -3.07	34.19 1.85 -1.54	36.31 2.00 -4.98	40.66 1.99 -8.90	42.23 2.17 -4.41	46.12 2.32 -5.80	46.54 2.59 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.06 2.47 -12.61	59.74 2.54 -10.96	72.96 3.00 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.28 2.08 -10.27	46.61 1.68 -15.43	43.73 2.04 -10.21	37.83 2.15 -3.59
RAVENSWOOD_GT3_2 24249	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	32.99 1.77 -3.07	34.19 1.85 -1.54	36.31 2.00 -4.98	40.66 1.99 -8.90	42.23 2.17 -4.41	46.12 2.32 -5.80	46.54 2.59 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.06 2.47 -12.61	59.74 2.54 -10.96	72.96 3.00 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.28 2.08 -10.27	46.61 1.68 -15.43	43.73 2.04 -10.21	37.83 2.15 -3.59
RAVENSWOOD_GT3_3 24250	43.26 1.42 -12.30	39.29 1.56 -8.39	35.44 1.91 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.72 2.05 -8.91	42.30 2.25 -4.41	46.20 2.39 -5.80	46.62 2.67 -1.54	50.59 2.29 -6.62	55.47 2.45 -8.41	60.15 2.56 -12.61	59.89 2.68 -10.96	73.05 3.10 -23.72	80.84 3.52 -28.41	84.85 4.28 -22.71	66.76 3.03 -19.77	56.16 3.06 -2.17	48.32 2.12 -10.27	46.67 1.74 -15.43	43.73 2.05 -10.21	37.95 2.28 -3.59
RAVENSWOOD_GT3_4 24251	43.26 1.42 -12.30	39.29 1.55 -8.39	35.44 1.91 -3.22	34.72 1.77 -4.86	33.04 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.72 2.05 -8.90	42.30 2.25 -4.41	46.20 2.40 -5.80	46.62 2.67 -1.54	50.59 2.29 -6.62	55.52 2.50 -8.41	60.15 2.56 -12.61	59.88 2.68 -10.96	73.05 3.10 -23.72	80.84 3.52 -28.41	84.85 4.28 -22.71	66.76 3.03 -19.77	56.16 3.06 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.76 2.08 -10.21	37.89 2.21 -3.59
RAVENSWOOD_GT_1 23729	43.14 1.30 -12.29	39.23 1.50 -8.39	35.44 1.91 -3.22	34.72 1.77 -4.86	33.04 1.83 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.66 1.99 -8.90	42.12 2.07 -4.41	46.00 2.20 -5.80	46.40 2.46 -1.53	50.34 2.04 -6.62	55.24 2.23 -8.40	58.34 2.34 -11.03	57.05 2.40 -8.40	68.48 2.87 -19.38	79.92 3.33 -27.69	78.37 4.05 -16.47	61.73 2.82 -14.95	53.30 2.90 0.54	48.13 1.94 -10.26	46.51 1.59 -15.43	43.63 1.95 -10.21	37.86 2.18 -3.59
RAVENSWOOD_GT_10 24258	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.31 1.99 -4.98	40.69 2.02 -8.91	42.23 2.17 -4.41	46.12 2.32 -5.80	46.53 2.59 -1.54	50.51 2.21 -6.62	55.38 2.36 -8.41	60.06 2.47 -12.61	59.79 2.59 -10.96	72.96 3.01 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.28 2.08 -10.26	46.61 1.68 -15.43	43.70 2.01 -10.21	37.89 2.21 -3.59
RAVENSWOOD_GT_11 24259	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.31 2.00 -4.98	40.69 2.02 -8.90	42.23 2.17 -4.41	46.16 2.36 -5.80	46.53 2.59 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.10 2.52 -12.61	59.79 2.59 -10.96	72.96 3.00 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.28 2.08 -10.26	46.61 1.68 -15.43	43.73 2.04 -10.21	37.83 2.15 -3.59



RAVENSWOOD_GT_4 24252	43.26 1.42 -12.29	39.26 1.53 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.69 2.02 -8.91	42.26 2.21 -4.41	46.16 2.36 -5.80	46.57 2.63 -1.53	50.55 2.25 -6.62	55.47 2.45 -8.40	58.95 2.56 -11.41	57.89 2.64 -9.01	69.70 3.05 -20.41	80.24 3.47 -27.86	80.03 4.22 -17.96	63.05 2.99 -16.10	54.05 3.01 -0.10	48.31 2.12 -10.26	46.63 1.71 -15.43	43.70 2.01 -10.21	37.92 2.25 -3.59
RAVENSWOOD_GT_5 24254	43.26 1.42 -12.29	39.26 1.53 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.69 2.02 -8.91	42.26 2.21 -4.41	46.16 2.36 -5.80	46.57 2.63 -1.53	50.55 2.25 -6.62	55.47 2.45 -8.40	58.95 2.56 -11.41	57.89 2.64 -9.01	69.70 3.05 -20.41	80.24 3.47 -27.86	80.03 4.22 -17.96	63.05 2.99 -16.10	54.05 3.01 -0.10	48.31 2.12 -10.26	46.63 1.71 -15.43	43.70 2.01 -10.21	37.92 2.25 -3.59
RAVENSWOOD_GT_6 24253	43.26 1.42 -12.29	39.26 1.53 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.69 2.02 -8.91	42.26 2.21 -4.41	46.16 2.36 -5.80	46.57 2.63 -1.53	50.55 2.25 -6.62	55.47 2.45 -8.40	58.95 2.56 -11.41	57.89 2.64 -9.01	69.70 3.05 -20.41	80.24 3.47 -27.86	80.03 4.22 -17.96	63.05 2.99 -16.10	54.05 3.01 -0.10	48.31 2.12 -10.26	46.63 1.71 -15.43	43.70 2.01 -10.21	37.92 2.25 -3.59
RAVENSWOOD_GT_7 24255	43.26 1.42 -12.29	39.26 1.53 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.34 2.02 -4.98	40.69 2.02 -8.91	42.26 2.21 -4.41	46.16 2.36 -5.80	46.57 2.63 -1.53	50.55 2.25 -6.62	55.47 2.45 -8.40	58.95 2.56 -11.41	57.89 2.64 -9.01	69.70 3.05 -20.41	80.24 3.47 -27.86	80.03 4.22 -17.96	63.05 2.99 -16.10	54.05 3.01 -0.10	48.31 2.12 -10.26	46.63 1.71 -15.43	43.70 2.01 -10.21	37.92 2.25 -3.59
RAVENSWOOD_GT_8 TEMP GRP(8-11) 24256	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.31 1.99 -4.98	40.69 2.02 -8.91	42.23 2.17 -4.41	46.12 2.32 -5.80	46.53 2.59 -1.54	50.51 2.21 -6.62	55.38 2.36 -8.41	60.06 2.47 -12.61	59.79 2.59 -10.96	72.96 3.01 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.28 2.08 -10.26	46.61 1.68 -15.43	43.70 2.01 -10.21	37.89 2.21 -3.59
RAVENSWOOD_GT_9 24257	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.31 2.00 -4.98	40.69 2.02 -8.90	42.23 2.17 -4.41	46.16 2.36 -5.80	46.53 2.59 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.10 2.52 -12.61	59.79 2.59 -10.96	72.96 3.00 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.28 2.08 -10.26	46.61 1.68 -15.43	43.73 2.04 -10.21	37.83 2.15 -3.59
RAVENSWOOD___1 23533	43.11 1.27 -12.29	39.20 1.47 -8.39	35.41 1.88 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.16 1.82 -1.54	36.34 2.02 -4.98	40.63 1.96 -8.90	42.08 2.03 -4.41	46.00 2.20 -5.80	46.36 2.42 -1.53	50.29 2.00 -6.61	55.20 2.19 -8.40	56.21 2.29 -8.95	53.62 2.36 -5.02	62.68 2.82 -13.62	78.91 3.28 -26.72	70.01 3.99 -8.17	55.31 2.77 -8.57	49.69 2.90 4.15	48.13 1.94 -10.26	46.48 1.56 -15.43	43.63 1.95 -10.21	37.83 2.15 -3.59
RAVENSWOOD___2 23534	42.96 1.12 -12.29	39.14 1.41 -8.39	35.32 1.79 -3.22	34.64 1.69 -4.86	32.93 1.72 -3.07	34.10 1.76 -1.54	36.25 1.94 -4.98	40.57 1.91 -8.90	41.90 1.85 -4.41	45.66 1.86 -5.80	45.98 2.04 -1.53	49.96 1.67 -6.61	54.84 1.83 -8.40	55.75 1.89 -8.89	53.16 1.99 -4.93	62.10 2.40 -13.46	78.44 2.84 -26.70	69.26 3.47 -7.94	54.73 2.37 -8.40	49.14 2.45 4.25	47.81 1.62 -10.26	46.22 1.30 -15.43	43.41 1.73 -10.21	37.76 2.08 -3.59
RAVENSWOOD___3 23535	43.23 1.39 -12.30	39.23 1.50 -8.39	35.38 1.85 -3.22	34.70 1.74 -4.86	33.02 1.80 -3.07	34.23 1.88 -1.54	36.31 2.00 -4.98	40.66 1.99 -8.90	42.23 2.17 -4.41	46.12 2.32 -5.80	46.54 2.59 -1.54	50.51 2.21 -6.62	55.43 2.41 -8.41	60.06 2.47 -12.61	59.74 2.54 -10.96	72.96 3.00 -23.72	80.74 3.42 -28.41	84.73 4.17 -22.71	66.67 2.95 -19.77	56.06 2.95 -2.17	48.28 2.08 -10.27	46.61 1.68 -15.43	43.73 2.04 -10.21	37.83 2.15 -3.59
RAVENSWOOD___4 23820	43.08 1.24 -12.29	39.17 1.44 -8.39	35.38 1.85 -3.22	34.67 1.71 -4.86	32.99 1.77 -3.07	34.13 1.79 -1.54	36.31 2.00 -4.98	40.60 1.93 -8.90	42.05 1.99 -4.41	45.96 2.17 -5.79	46.31 2.37 -1.53	50.29 2.00 -6.61	55.20 2.19 -8.40	54.05 2.25 -6.83	50.19 2.36 -1.59	56.79 2.77 -7.78	77.93 3.28 -25.75	61.54 3.94 0.25	48.79 2.73 -2.11	45.98 2.85 7.82	48.09 1.90 -10.26	46.45 1.53 -15.42	43.60 1.92 -10.21	37.83 2.15 -3.59
RCPL_TRUST___DRP 24196	43.29 1.45 -12.30	39.29 1.56 -8.39	35.41 1.88 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.75 2.08 -8.90	42.33 2.28 -4.41	46.24 2.43 -5.80	46.66 2.71 -1.54	50.68 2.38 -6.62	55.56 2.54 -8.41	60.28 2.70 -12.61	59.98 2.77 -10.96	73.19 3.24 -23.72	80.99 3.67 -28.41	84.96 4.40 -22.71	66.85 3.12 -19.77	56.21 3.11 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.76 2.08 -10.21	37.92 2.25 -3.59
RED___ROCHESTER 323720	31.53 0.65 -1.34	30.79 0.53 -0.91	30.96 0.30 -0.35	28.71 0.08 -0.53	28.39 -0.08 -0.33	31.10 0.12 -0.17	30.20 0.32 -0.54	31.06 0.33 -0.97	36.09 -0.04 -0.48	38.63 0.00 -0.63	42.71 0.13 -0.17	42.85 0.46 -0.71	45.95 0.49 -0.85	47.00 0.68 -1.35	47.93 0.51 -1.18	48.93 0.14 -2.55	52.05 0.05 -3.09	60.30 0.00 -2.45	46.09 0.00 -2.13	51.33 0.15 -0.24	38.13 1.08 -1.12	32.03 0.86 -1.68	33.15 0.57 -1.11	33.09 0.61 -0.39
REGAN___SOLAR 323812	70.92 4.46 -36.91	58.86 4.34 -25.18	44.16 4.18 -9.67	46.47 3.79 -14.59	41.14 3.77 -9.22	39.67 4.25 -4.61	48.50 3.96 -15.20	60.83 3.87 -27.20	53.42 4.31 -13.47	60.75 5.02 -17.73	52.88 5.77 -4.70	68.33 6.29 -20.36	78.05 6.78 -26.66	90.70 6.83 -38.90	86.64 6.70 -33.69	125.89 6.75 -72.90	143.04 7.29 -86.85	135.01 7.41 -69.75	110.44 5.80 -60.68	64.39 6.83 -6.62	72.61 5.32 -31.36	80.91 4.28 -47.15	66.91 4.25 -31.19	47.32 4.27 -10.96
RENSSELAER___COGEN 23796	57.15 0.92 -26.69	48.46 0.91 -18.20	38.33 1.03 -6.99	39.62 0.98 -10.55	35.80 0.98 -6.67	35.22 1.08 -3.34	40.91 0.97 -10.61	45.07 0.95 -14.35	35.77 1.07 0.93	35.07 1.14 4.07	35.24 1.23 8.40	33.29 1.08 9.47	29.06 1.16 16.72	39.33 1.12 6.77	39.33 1.16 8.07	39.33 1.20 8.11	57.56 1.27 -7.38	47.57 1.62 11.90	39.33 1.19 5.82	32.29 1.42 20.08	49.83 1.08 -12.82	45.75 0.86 -15.40	37.79 0.98 -5.35	39.73 1.06 -6.59
REPUBLIC_115KV_BARTNBRK 55605	74.34 5.38 -39.42	61.43 5.19 -26.89	45.64 5.00 -10.33	48.17 4.49 -15.58	42.47 4.47 -9.85	40.76 5.02 -4.93	50.61 4.75 -16.52	67.65 4.97 -32.92	56.31 6.02 -14.65	63.81 6.54 -19.27	63.64 7.68 -13.55	87.31 8.21 -37.42	93.56 8.61 -40.34	115.25 8.99 -61.28	111.75 9.16 -56.35	170.17 8.65 -115.29	189.60 8.66 -132.04	181.77 9.72 -114.20	147.94 7.47 -96.51	84.54 8.56 -25.04	82.97 6.40 -40.64	98.73 5.34 -63.89	82.47 5.22 -45.78	49.94 5.17 -12.68



REVERE_CPDR_DRP 24186	30.85 1.30 0.00	30.61 1.26 0.00	31.40 1.09 0.00	29.08 0.98 0.00	29.13 0.99 0.00	31.92 1.11 0.00	30.19 0.85 0.00	30.77 1.01 0.00	36.89 1.25 0.00	39.48 1.48 0.00	44.23 1.82 0.00	43.72 2.04 0.00	46.67 2.05 0.00	46.95 1.98 0.00	48.23 1.99 0.00	48.04 1.80 0.00	50.91 2.01 0.00	60.05 2.20 0.00	45.50 1.54 0.00	52.72 1.78 0.00	37.34 1.40 0.00	30.56 1.06 0.00	32.51 1.04 0.00	33.02 0.93 0.00
REYNOLDS_115KV_TB3 80639	59.03 1.24 -28.24	49.87 1.26 -19.26	39.10 1.39 -7.40	40.55 1.29 -11.16	36.49 1.29 -7.06	35.76 1.42 -3.53	41.78 1.29 -11.15	45.00 1.28 -13.96	46.99 1.46 -9.89	52.57 1.56 -13.01	32.40 1.70 11.70	33.19 1.58 10.08	64.45 1.70 -18.15	48.49 1.66 -1.85	41.44 1.71 6.52	45.59 1.71 2.36	48.12 1.91 2.69	49.71 2.31 10.46	41.08 1.71 4.59	25.75 1.99 27.18	48.67 1.47 -11.26	42.57 1.18 -11.90	34.38 1.32 -1.59	40.17 1.41 -6.67
RIVERBAY____ 323610	43.45 1.60 -12.31	39.59 1.85 -8.40	35.81 2.27 -3.23	35.04 2.08 -4.87	33.36 2.14 -3.08	34.44 2.10 -1.54	36.51 2.20 -4.98	40.72 2.05 -8.91	42.08 2.03 -4.41	46.34 2.55 -5.80	46.74 2.80 -1.53	50.71 2.42 -6.61	55.65 2.63 -8.40	60.32 2.74 -12.60	60.06 2.87 -10.95	73.27 3.33 -23.71	81.14 3.81 -28.42	84.97 4.40 -22.72	66.77 3.03 -19.77	56.31 3.21 -2.16	48.35 2.16 -10.26	46.72 1.80 -15.42	43.88 2.20 -10.21	38.25 2.57 -3.60
RIVERSDE_115KV_TB3 55908	59.32 1.15 -28.62	50.04 1.17 -19.52	39.11 1.30 -7.50	40.61 1.21 -11.31	36.50 1.21 -7.15	35.71 1.32 -3.58	41.92 1.20 -11.38	46.32 1.19 -15.37	47.12 1.39 -10.09	52.73 1.44 -13.28	34.92 1.61 9.10	36.69 1.50 6.49	58.05 1.61 -11.83	50.77 1.62 -4.18	45.59 1.66 2.32	52.73 1.66 -4.82	60.00 1.81 -9.29	58.22 2.14 1.77	48.01 1.63 -2.42	31.09 1.88 21.73	50.99 1.37 -13.69	47.01 1.12 -16.39	38.31 1.23 -5.61	40.47 1.32 -7.06
ROARING__BROOK_WT_PWR 323790	29.10 -0.44 0.00	28.91 -0.44 0.00	29.82 -0.49 0.00	27.70 -0.39 0.00	27.78 -0.37 0.00	30.41 -0.40 0.00	29.04 -0.29 0.00	29.58 -0.18 0.00	35.46 -0.18 0.00	37.81 -0.19 0.00	42.16 -0.25 0.00	41.43 -0.25 0.00	44.25 -0.36 0.00	44.61 -0.36 0.00	45.78 -0.46 0.00	45.73 -0.51 0.00	48.42 -0.49 0.00	57.33 -0.52 0.00	43.61 -0.35 0.00	50.48 -0.46 0.00	35.58 -0.36 0.00	29.11 -0.38 0.00	31.00 -0.47 0.00	31.64 -0.45 0.00
ROCHESRG_115KV_T4 355643	31.11 0.24 -1.33	30.40 0.15 -0.90	30.57 -0.09 -0.35	28.36 -0.25 -0.52	28.11 -0.37 -0.33	30.73 -0.25 -0.17	29.85 -0.03 -0.54	30.63 -0.09 -0.96	35.62 -0.50 -0.48	38.10 -0.53 -0.63	42.07 -0.51 -0.17	42.18 -0.21 -0.71	45.27 -0.18 -0.84	46.31 0.00 -1.33	47.23 -0.18 -1.17	48.30 -0.46 -2.53	51.34 -0.64 -3.07	59.53 -0.75 -2.43	45.50 -0.57 -2.12	50.61 -0.56 -0.23	37.58 0.54 -1.11	31.57 0.41 -1.67	32.73 0.16 -1.10	32.64 0.16 -0.39
ROCHESTER_9_IC 23652	31.36 0.47 -1.34	30.61 0.35 -0.91	30.78 0.12 -0.35	28.54 -0.08 -0.53	28.28 -0.20 -0.33	30.91 -0.06 -0.17	30.03 0.15 -0.54	30.88 0.15 -0.97	35.87 -0.25 -0.48	38.41 -0.23 -0.63	42.41 -0.17 -0.71	42.56 0.17 -0.71	45.68 0.22 -0.85	46.68 0.36 -1.35	47.61 0.18 -1.18	48.70 -0.09 -2.55	51.71 -0.29 -3.09	59.96 -0.35 -2.45	45.83 -0.26 -2.13	51.02 -0.15 -0.24	37.88 0.83 -1.12	31.83 0.65 -1.68	32.99 0.41 -1.11	32.86 0.39 -0.39
ROCKVIEW_13_KV_LD 356306	43.41 1.57 -12.30	39.38 1.64 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.32 1.97 -1.54	36.40 2.08 -4.98	40.81 2.14 -8.91	42.40 2.35 -4.41	46.35 2.55 -5.80	46.79 2.84 -1.54	50.84 2.54 -6.62	55.88 2.86 -8.41	60.55 2.97 -12.61	60.26 3.05 -10.96	73.38 3.42 -23.72	81.23 3.91 -28.41	85.25 4.69 -22.71	67.11 3.38 -19.77	56.52 3.41 -2.17	48.57 2.37 -10.27	46.84 1.92 -15.43	43.89 2.20 -10.21	38.05 2.37 -3.59
ROME____115KV_TB2 80656	30.85 1.30 0.00	30.61 1.26 0.00	31.40 1.09 0.00	29.08 0.98 0.00	29.13 0.99 0.00	31.92 1.11 0.00	30.19 0.85 0.00	30.77 1.01 0.00	36.89 1.25 0.00	39.48 1.48 0.00	44.23 1.82 0.00	43.72 2.04 0.00	46.67 2.05 0.00	46.95 1.98 0.00	48.23 1.99 0.00	48.04 1.80 0.00	50.91 2.01 0.00	60.05 2.20 0.00	45.50 1.54 0.00	52.72 1.78 0.00	37.34 1.40 0.00	30.56 1.06 0.00	32.51 1.04 0.00	33.02 0.93 0.00
ROSETON__1 23587	43.04 1.27 -12.22	39.00 1.32 -8.34	35.06 1.54 -3.20	34.38 1.46 -4.83	32.69 1.49 -3.05	33.91 1.57 -1.53	35.89 1.61 -4.94	40.25 1.64 -8.85	41.84 1.82 -4.38	45.71 1.94 -5.77	46.10 2.16 -1.53	50.06 1.88 -6.50	54.34 2.01 -7.72	59.33 2.07 -12.28	59.17 2.17 -10.75	71.91 2.40 -23.27	79.84 2.74 -28.20	83.48 3.30 -22.33	65.79 2.37 -19.45	55.59 2.50 -2.15	47.90 1.76 -10.20	46.28 1.44 -15.34	43.29 1.67 -10.15	37.42 1.76 -3.57
ROSETON__2 23588	43.04 1.27 -12.22	39.00 1.32 -8.34	35.06 1.54 -3.20	34.38 1.46 -4.83	32.69 1.49 -3.05	33.91 1.57 -1.53	35.89 1.61 -4.94	40.25 1.64 -8.85	41.84 1.82 -4.38	45.71 1.94 -5.77	46.10 2.16 -1.53	50.06 1.88 -6.50	54.34 2.01 -7.72	59.33 2.07 -12.28	59.17 2.17 -10.75	71.91 2.40 -23.27	79.84 2.74 -28.20	83.48 3.30 -22.33	65.79 2.37 -19.45	55.59 2.50 -2.15	47.90 1.76 -10.20	46.28 1.44 -15.34	43.29 1.67 -10.15	37.42 1.76 -3.57
ROTTDAM_115KV_TB3 80664	72.80 1.51 -41.74	59.32 1.50 -28.48	42.85 1.61 -10.94	46.08 1.49 -16.50	40.07 1.49 -10.43	37.66 1.63 -5.22	48.09 1.55 -17.20	62.43 1.58 -31.09	52.67 1.78 -15.25	59.96 1.90 -20.06	50.66 2.16 -6.09	68.18 2.08 -24.42	77.97 2.28 -31.09	92.97 2.29 -45.71	88.46 2.31 -39.90	134.28 2.31 -85.74	153.11 2.49 -101.70	143.14 2.89 -82.39	117.62 2.24 -71.42	62.61 2.55 -9.12	73.92 1.90 -36.08	85.56 1.56 -54.50	69.52 1.67 -36.38	46.29 1.73 -12.47
RUSSELL__1 23602	31.53 0.65 -1.34	30.79 0.53 -0.91	30.96 0.30 -0.35	28.71 0.08 -0.53	28.42 -0.06 -0.33	31.10 0.12 -0.17	30.20 0.32 -0.54	31.06 0.33 -0.97	36.09 -0.04 -0.48	38.63 0.00 -0.63	42.70 0.13 -0.17	42.85 0.46 -0.71	45.99 0.54 -0.85	47.04 0.72 -1.35	47.98 0.55 -1.18	49.02 0.23 -2.55	52.00 0.00 -3.09	60.30 0.00 -2.45	46.14 0.04 -2.13	51.38 0.20 -0.24	38.13 1.08 -1.12	32.03 0.86 -1.68	33.18 0.60 -1.11	33.06 0.58 -0.39
RUSSELL__2 23532	31.53 0.65 -1.34	30.79 0.53 -0.91	30.96 0.30 -0.35	28.71 0.08 -0.53	28.42 -0.06 -0.33	31.10 0.12 -0.17	30.20 0.32 -0.54	31.06 0.33 -0.97	36.09 -0.04 -0.48	38.63 0.00 -0.63	42.70 0.13 -0.17	42.85 0.46 -0.71	45.99 0.54 -0.85	47.04 0.72 -1.35	47.98 0.55 -1.18	49.02 0.23 -2.55	52.00 0.00 -3.09	60.30 0.00 -2.45	46.14 0.04 -2.13	51.38 0.20 -0.24	38.13 1.08 -1.12	32.03 0.86 -1.68	33.18 0.60 -1.11	33.06 0.58 -0.39
RUSSELL__3 23549	31.53 0.65 -1.34	30.79 0.53 -0.91	30.96 0.30 -0.35	28.71 0.08 -0.53	28.42 -0.06 -0.33	31.10 0.12 -0.17	30.20 0.32 -0.54	31.06 0.33 -0.97	36.09 -0.04 -0.48	38.63 0.00 -0.63	42.70 0.13 -0.17	42.85 0.46 -0.71	45.99 0.54 -0.85	47.04 0.72 -1.35	47.98 0.55 -1.18	49.02 0.23 -2.55	52.00 0.00 -3.09	60.30 0.00 -2.45	46.14 0.04 -2.13	51.38 0.20 -0.24	38.13 1.08 -1.12	32.03 0.86 -1.68	33.18 0.60 -1.11	33.06 0.58 -0.39



RUSSELL___4 23556	31.53 0.65 -1.34	30.79 0.53 -0.91	30.96 0.30 -0.35	28.71 0.08 -0.53	28.42 -0.06 -0.33	31.10 0.12 -0.17	30.20 0.32 -0.54	31.06 0.33 -0.97	36.09 -0.04 -0.48	38.63 0.00 -0.63	42.70 0.13 -0.17	42.85 0.46 -0.71	45.99 0.54 -0.85	47.04 0.72 -1.35	47.98 0.55 -1.18	49.02 0.23 -2.55	52.00 0.00 -3.09	60.30 0.00 -2.45	46.14 0.04 -2.13	51.38 0.20 -0.24	38.13 1.08 -1.12	32.03 0.86 -1.68	33.18 0.60 -1.11	33.06 0.58 -0.39
RUSSELL___STATION 23914	31.53 0.65 -1.34	30.79 0.53 -0.91	30.96 0.30 -0.35	28.71 0.08 -0.53	28.42 -0.06 -0.33	31.10 0.12 -0.17	30.20 0.32 -0.54	31.06 0.33 -0.97	36.09 -0.04 -0.48	38.63 0.00 -0.63	42.70 0.13 -0.17	42.85 0.46 -0.71	45.99 0.54 -0.85	47.04 0.72 -1.35	47.98 0.55 -1.18	49.02 0.23 -2.55	52.00 0.00 -3.09	60.30 0.00 -2.45	46.14 0.04 -2.13	51.38 0.20 -0.24	38.13 1.08 -1.12	32.03 0.86 -1.68	33.18 0.60 -1.11	33.06 0.58 -0.39
S SALMON___HYD 24043	29.55 0.00 0.00	29.32 -0.03 0.00	30.10 -0.21 0.00	27.87 -0.23 0.00	27.89 -0.25 0.00	30.56 -0.25 0.00	28.99 -0.35 0.00	29.46 -0.30 0.00	35.07 -0.57 0.00	37.43 -0.57 0.00	41.82 -0.59 0.00	41.22 -0.46 0.00	44.12 -0.49 0.00	44.48 -0.49 0.00	45.64 -0.60 0.00	45.59 -0.65 0.00	48.18 -0.73 0.00	57.04 -0.81 0.00	43.26 -0.71 0.00	50.23 -0.71 0.00	35.68 -0.25 0.00	29.32 -0.18 0.00	31.16 -0.31 0.00	31.70 -0.38 0.00
S.PERRY___115KV_TB1 80734	32.38 0.83 -2.01	31.42 0.70 -1.37	31.26 0.42 -0.53	29.05 0.17 -0.79	28.76 0.11 -0.50	31.37 0.31 -0.25	30.53 0.38 -0.81	31.28 0.06 -1.46	35.76 -0.61 -0.72	38.00 -0.95 -0.95	41.69 -0.98 -0.25	42.12 -0.63 -1.07	45.08 -0.80 -1.27	46.45 -0.54 -2.02	47.27 -0.74 -1.77	49.00 -1.06 -3.83	52.43 -1.12 -4.65	60.90 -0.64 -3.68	47.03 -0.13 -3.21	51.60 0.31 -0.35	39.02 1.40 -1.68	33.14 1.12 -2.53	33.96 0.82 -1.67	33.45 0.77 -0.59
SAWYER_23_KV_LOAD_REV_LBMP_A 345024	31.77 0.38 -1.83	30.74 0.15 -1.25	30.70 -0.09 -0.48	28.40 -0.42 -0.73	28.15 -0.45 -0.46	30.73 -0.31 -0.23	29.99 -0.09 -0.74	30.82 -0.27 -1.33	35.30 -1.00 -0.66	37.73 -1.14 -0.87	41.49 -1.15 -0.23	41.99 -0.67 -0.98	45.15 -0.62 -1.16	46.42 -0.40 -1.85	47.31 -0.55 -1.62	48.77 -0.97 -3.50	51.98 -1.17 -4.25	59.71 -1.50 -3.36	45.83 -1.06 -2.93	49.99 -1.27 -0.32	38.12 0.65 -1.54	32.33 0.53 -2.31	33.12 0.13 -1.53	32.95 0.32 -0.54
SAWYER___23_KV_LOAD 55526	31.77 0.38 -1.83	30.74 0.15 -1.25	30.70 -0.09 -0.48	28.40 -0.42 -0.73	28.15 -0.45 -0.46	30.73 -0.31 -0.23	29.99 -0.09 -0.74	30.82 -0.27 -1.33	35.30 -1.00 -0.66	37.73 -1.14 -0.87	41.49 -1.15 -0.23	41.99 -0.67 -0.98	45.15 -0.62 -1.16	46.42 -0.40 -1.85	47.31 -0.55 -1.62	48.77 -0.97 -3.50	51.98 -1.17 -4.25	59.71 -1.50 -3.36	45.83 -1.06 -2.93	49.99 -1.27 -0.32	38.12 0.65 -1.54	32.33 0.53 -2.31	33.12 0.13 -1.53	32.95 0.32 -0.54
SELKIRK___I 23801	53.62 1.36 -22.71	46.19 1.35 -15.49	37.72 1.45 -5.95	38.45 1.38 -8.98	35.17 1.35 -5.68	35.13 1.48 -2.84	39.78 1.35 -9.09	44.66 1.34 -13.56	39.14 1.50 -2.01	40.58 1.60 -0.98	39.99 1.61 4.03	41.68 1.50 1.50	42.91 1.56 3.26	50.53 1.57 -3.98	49.84 1.62 -1.98	57.56 1.57 -9.75	71.49 1.71 -20.87	66.69 2.02 -6.81	54.03 1.54 -8.53	42.27 1.83 10.51	50.93 1.54 -13.45	48.71 1.27 -17.95	41.90 1.38 -9.04	39.50 1.48 -5.94
SELKIRK___II 23799	54.27 1.01 -23.71	46.55 1.03 -16.18	37.67 1.15 -6.21	38.56 1.09 -9.37	35.14 1.07 -5.93	34.97 1.20 -2.96	39.91 1.09 -9.48	44.73 1.07 -13.90	38.41 1.21 -1.56	39.46 1.29 -0.17	38.70 1.10 4.81	39.83 0.96 2.80	40.24 0.98 5.35	48.31 0.99 -2.35	47.66 1.02 -0.40	54.31 1.02 -7.06	69.03 1.13 -19.00	63.22 1.45 -3.92	51.43 1.10 -6.37	39.98 1.27 12.24	50.68 1.18 -13.56	48.28 0.97 -17.82	41.18 1.13 -8.58	39.41 1.19 -6.14
SENECA OSWGO___HYD 24041	29.19 -0.35 0.00	28.96 -0.38 0.00	29.82 -0.49 0.00	27.59 -0.50 0.00	27.64 -0.51 0.00	30.31 -0.49 0.00	28.87 -0.47 0.00	29.32 -0.45 0.00	34.93 -0.71 0.00	37.32 -0.68 0.00	41.69 -0.72 0.00	41.05 -0.62 0.00	43.99 -0.62 0.00	44.44 -0.54 0.00	45.55 -0.69 0.00	45.50 -0.74 0.00	48.18 -0.73 0.00	56.87 -0.98 0.00	43.17 -0.79 0.00	50.03 -0.92 0.00	35.54 -0.39 0.00	29.20 -0.29 0.00	31.06 -0.41 0.00	31.64 -0.45 0.00
SENECA___115KV_TB3 355854	32.22 0.74 -1.93	31.13 0.47 -1.32	31.06 0.24 -0.51	28.72 -0.14 -0.76	28.49 -0.14 -0.48	31.05 0.00 -0.24	30.35 0.23 -0.78	31.25 0.09 -1.40	35.80 -0.53 -0.69	38.31 -0.61 -0.91	42.10 -0.55 -0.24	42.67 -0.04 -1.03	45.88 0.04 -1.22	47.23 0.31 -1.94	48.08 0.14 -1.70	49.60 -0.32 -3.68	52.89 -0.49 -4.47	60.70 -0.69 -3.54	46.60 -0.44 -3.08	50.67 -0.61 -0.34	38.63 1.08 -1.62	32.81 0.88 -2.43	33.58 0.50 -1.61	33.33 0.67 -0.56
SENECA___ENERGY 23797	31.34 0.36 -1.44	30.65 0.32 -0.98	30.84 0.15 -0.38	28.66 0.00 -0.57	28.50 0.00 -0.36	31.14 0.15 -0.18	30.13 0.21 -0.58	31.04 0.24 -1.04	36.12 -0.04 -0.52	38.68 0.00 -0.68	42.63 0.04 -0.18	42.74 0.29 -0.77	45.79 0.27 -0.91	46.83 0.40 -1.45	47.79 0.28 -1.27	49.12 0.14 -2.75	52.28 0.05 -3.33	60.49 0.00 -2.64	46.26 0.00 -2.30	51.20 0.00 -0.25	37.64 0.50 -1.20	31.72 0.41 -1.81	32.83 0.16 -1.20	32.70 0.19 -0.42
SHOEMAKER___GT 23640	41.64 1.18 -10.91	37.99 1.20 -7.44	34.56 1.40 -2.86	33.70 1.29 -4.31	32.16 1.30 -2.73	33.56 1.39 -1.36	35.16 1.41 -4.41	39.06 1.40 -7.90	41.08 1.53 -3.91	44.75 1.60 -5.15	45.56 1.78 -1.36	49.06 1.58 -5.80	53.15 1.65 -6.89	57.64 1.71 -10.96	57.60 1.76 -9.59	68.95 1.94 -20.77	76.32 2.25 -25.16	80.56 2.78 -19.93	63.34 2.02 -17.36	54.95 2.09 -1.92	46.51 1.47 -9.10	44.42 1.24 -13.69	41.94 1.42 -9.06	36.78 1.51 -3.18
SHOEMAKR_138KV_BK 111 55601	41.48 1.12 -10.81	37.89 1.17 -7.37	34.51 1.36 -2.83	33.63 1.26 -4.27	32.11 1.27 -2.70	33.52 1.36 -1.35	35.09 1.38 -4.37	38.95 1.37 -7.82	41.01 1.50 -3.87	44.69 1.60 -5.09	45.58 1.82 -1.35	49.00 1.58 -5.74	53.08 1.65 -6.82	57.53 1.71 -10.85	57.54 1.80 -9.50	68.73 1.94 -20.56	76.14 2.30 -24.93	80.37 2.78 -19.74	63.18 2.02 -17.20	54.93 2.09 -1.90	46.43 1.47 -9.02	44.27 1.21 -13.56	41.83 1.38 -8.97	36.78 1.54 -3.15
SHOREHAM_IC_1 23715	67.05 2.72 -34.79	54.27 2.99 -21.93	51.82 3.51 -18.00	44.02 3.37 -12.56	42.44 3.43 -10.87	44.13 3.60 -9.72	42.34 3.76 -9.24	43.72 3.69 -10.27	61.81 4.03 -22.14	63.64 4.14 -21.50	71.71 4.58 -24.72	90.68 4.38 -44.63	93.00 4.73 -43.66	129.66 4.59 -80.09	174.03 4.67 -123.12	172.03 4.85 -120.94	223.94 5.24 -169.79	245.71 6.07 -181.79	227.08 4.61 -178.50	174.99 5.35 -118.70	118.26 4.06 -78.27	109.43 3.30 -76.63	83.26 3.68 -48.11	77.73 3.91 -41.72
SHOREHAM_IC_2 23716	67.05 2.72 -34.79	54.27 2.99 -21.93	51.82 3.51 -18.00	44.02 3.37 -12.56	42.44 3.43 -10.87	44.13 3.60 -9.72	42.34 3.76 -9.24	43.72 3.69 -10.27	61.81 4.03 -22.14	63.64 4.14 -21.50	71.71 4.58 -24.72	90.68 4.38 -44.63	93.00 4.73 -43.66	129.66 4.59 -80.09	174.03 4.67 -123.12	172.03 4.85 -120.94	223.94 5.24 -169.79	245.71 6.07 -181.79	227.08 4.61 -178.50	174.99 5.35 -118.70	118.26 4.06 -78.27	109.43 3.30 -76.63	83.26 3.68 -48.11	77.73 3.91 -41.72



SISSONVILLE____ 23735	29.19 -0.35 0.00	28.99 -0.35 0.00	29.79 -0.52 0.00	27.64 -0.45 0.00	27.55 -0.59 0.00	29.88 -0.92 0.00	28.28 -1.06 0.00	28.72 -1.04 0.00	34.50 -1.14 0.00	36.86 -1.14 0.00	41.05 -1.36 0.00	40.39 -1.29 0.00	43.14 -1.47 0.00	43.36 -1.62 0.00	44.77 -1.48 0.00	44.80 -1.43 0.00	47.15 -1.76 0.00	55.65 -2.20 0.00	42.38 -1.58 0.00	49.41 -1.53 0.00	34.46 -1.47 0.00	28.25 -1.24 0.00	30.56 -0.91 0.00	31.00 -1.09 0.00
SITHE_IND_GS1 24169	28.78 -0.77 0.00	28.55 -0.79 0.00	29.43 -0.88 0.00	27.25 -0.84 0.00	27.27 -0.87 0.00	29.89 -0.92 0.00	28.49 -0.85 0.00	28.93 -0.83 0.00	34.54 -1.11 0.00	36.86 -1.14 0.00	41.14 -1.27 0.00	40.51 -1.17 0.00	43.36 -1.25 0.00	43.76 -1.21 0.00	44.95 -1.29 0.00	44.85 -1.39 0.00	47.44 -1.47 0.00	56.06 -1.79 0.00	42.60 -1.36 0.00	49.36 -1.58 0.00	35.04 -0.90 0.00	28.76 -0.74 0.00	30.62 -0.85 0.00	31.22 -0.86 0.00
SITHE_IND_GS2 24170	28.78 -0.77 0.00	28.55 -0.79 0.00	29.43 -0.88 0.00	27.25 -0.84 0.00	27.27 -0.87 0.00	29.89 -0.92 0.00	28.49 -0.85 0.00	28.93 -0.83 0.00	34.54 -1.11 0.00	36.86 -1.14 0.00	41.14 -1.27 0.00	40.51 -1.17 0.00	43.36 -1.25 0.00	43.76 -1.21 0.00	44.95 -1.29 0.00	44.85 -1.39 0.00	47.44 -1.47 0.00	56.06 -1.79 0.00	42.60 -1.36 0.00	49.36 -1.58 0.00	35.04 -0.90 0.00	28.76 -0.74 0.00	30.62 -0.85 0.00	31.22 -0.86 0.00
SITHE_IND_GS3 24171	28.78 -0.77 0.00	28.55 -0.79 0.00	29.43 -0.88 0.00	27.25 -0.84 0.00	27.27 -0.87 0.00	29.89 -0.92 0.00	28.49 -0.85 0.00	28.93 -0.83 0.00	34.54 -1.11 0.00	36.86 -1.14 0.00	41.14 -1.27 0.00	40.51 -1.17 0.00	43.36 -1.25 0.00	43.76 -1.21 0.00	44.95 -1.29 0.00	44.85 -1.39 0.00	47.44 -1.47 0.00	56.06 -1.79 0.00	42.60 -1.36 0.00	49.36 -1.58 0.00	35.04 -0.90 0.00	28.76 -0.74 0.00	30.62 -0.85 0.00	31.22 -0.86 0.00
SITHE_IND_GS4 24172	28.78 -0.77 0.00	28.55 -0.79 0.00	29.43 -0.88 0.00	27.25 -0.84 0.00	27.27 -0.87 0.00	29.89 -0.92 0.00	28.49 -0.85 0.00	28.93 -0.83 0.00	34.54 -1.11 0.00	36.86 -1.14 0.00	41.14 -1.27 0.00	40.51 -1.17 0.00	43.36 -1.25 0.00	43.76 -1.21 0.00	44.95 -1.29 0.00	44.85 -1.39 0.00	47.44 -1.47 0.00	56.06 -1.79 0.00	42.60 -1.36 0.00	49.36 -1.58 0.00	35.04 -0.90 0.00	28.76 -0.74 0.00	30.62 -0.85 0.00	31.22 -0.86 0.00
SITHE____BATAVIA 24024	31.91 0.77 -1.59	31.02 0.59 -1.09	31.03 0.30 -0.42	28.72 0.00 -0.63	28.37 -0.17 -0.40	31.07 0.06 -0.20	30.34 0.35 -0.65	31.15 0.24 -1.15	35.86 -0.36 -0.57	38.41 -0.34 -0.75	42.36 -0.25 -0.20	42.69 0.17 -0.85	45.80 0.18 -1.01	47.03 0.45 -1.60	47.88 0.23 -1.40	48.95 -0.32 -3.04	52.15 -0.44 -3.68	60.24 -0.52 -2.91	46.15 -0.35 -2.54	51.02 -0.20 -0.28	38.49 1.22 -1.33	32.53 1.03 -2.00	33.49 0.69 -1.32	33.45 0.90 -0.47
SITHE____INDEPEND 23800	28.78 -0.77 0.00	28.55 -0.79 0.00	29.43 -0.88 0.00	27.25 -0.84 0.00	27.27 -0.87 0.00	29.88 -0.92 0.00	28.49 -0.85 0.00	28.93 -0.83 0.00	34.54 -1.10 0.00	36.86 -1.14 0.00	41.14 -1.27 0.00	40.51 -1.17 0.00	43.41 -1.20 0.00	43.76 -1.21 0.00	44.95 -1.29 0.00	44.90 -1.34 0.00	47.44 -1.47 0.00	56.06 -1.79 0.00	42.60 -1.36 0.00	49.36 -1.58 0.00	35.04 -0.90 0.00	28.76 -0.74 0.00	30.62 -0.85 0.00	31.19 -0.90 0.00
SITHE____MASSENA 23902	29.25 -0.30 0.00	29.08 -0.26 0.00	29.91 -0.39 0.00	27.78 -0.31 0.00	27.86 -0.28 0.00	30.35 -0.46 0.00	28.84 -0.50 0.00	29.26 -0.51 0.00	35.21 -0.43 0.00	37.59 -0.42 0.00	41.86 -0.55 0.00	41.18 -0.50 0.00	44.03 -0.58 0.00	44.34 -0.63 0.00	45.74 -0.51 0.00	45.82 -0.42 0.00	48.18 -0.73 0.00	56.87 -0.98 0.00	43.30 -0.66 0.00	50.43 -0.51 0.00	35.22 -0.72 0.00	28.93 -0.56 0.00	31.00 -0.47 0.00	31.51 -0.58 0.00
SITHE____OGDNSBRG 24021	29.69 0.15 0.00	29.49 0.15 0.00	30.25 -0.06 0.00	28.09 0.00 0.00	28.09 -0.06 0.00	30.59 -0.22 0.00	28.93 -0.41 0.00	29.35 -0.42 0.00	35.32 -0.32 0.00	37.77 -0.23 0.00	42.07 -0.34 0.00	41.47 -0.21 0.00	44.30 -0.31 0.00	44.48 -0.49 0.00	45.97 -0.28 0.00	45.96 -0.28 0.00	48.42 -0.49 0.00	57.04 -0.81 0.00	43.48 -0.48 0.00	50.74 -0.20 0.00	35.36 -0.57 0.00	29.02 -0.47 0.00	31.22 -0.25 0.00	31.64 -0.45 0.00
SITHE____STERLING 23777	30.52 0.97 0.00	30.28 0.94 0.00	31.13 0.82 0.00	28.82 0.73 0.00	28.87 0.73 0.00	31.64 0.83 0.00	30.01 0.68 0.00	30.53 0.77 0.00	36.60 0.96 0.00	39.14 1.14 0.00	43.81 1.40 0.00	43.30 1.62 0.00	46.22 1.60 0.00	46.55 1.57 0.00	47.82 1.57 0.00	47.67 1.43 0.00	50.47 1.56 0.00	59.53 1.68 0.00	45.15 1.19 0.00	52.32 1.38 0.00	37.05 1.12 0.00	30.35 0.86 0.00	32.29 0.82 0.00	32.83 0.74 0.00
SLEIGHT__34_KV_TB1 80719	31.91 1.03 -1.33	31.25 1.00 -0.91	31.48 0.82 -0.35	29.24 0.62 -0.53	29.09 0.62 -0.33	31.81 0.83 -0.17	30.73 0.85 -0.54	31.71 0.98 -0.96	37.12 1.00 -0.48	39.96 1.33 -0.63	44.19 1.61 -0.17	44.22 1.83 -0.71	47.42 1.96 -0.84	48.52 2.20 -1.34	49.36 1.94 -1.17	50.67 1.90 -2.53	53.79 1.81 -3.07	62.14 1.85 -2.43	47.40 1.32 -2.12	52.70 1.53 -0.23	38.59 1.55 -1.11	32.37 1.21 -1.67	33.61 1.04 -1.11	33.41 0.93 -0.39
SOUTH CAIRO____GT 23612	53.11 2.16 -21.41	46.03 2.08 -14.60	38.04 2.12 -5.61	38.47 1.91 -8.46	35.32 1.83 -5.35	35.61 2.12 -2.68	39.86 1.97 -8.56	44.30 1.85 -12.69	39.50 2.14 -1.72	40.81 2.17 -0.65	41.05 2.63 3.99	42.36 2.59 1.91	42.61 2.45 4.46	50.36 2.52 -2.87	50.09 2.68 -1.16	56.65 2.59 -7.82	70.45 2.84 -18.71	66.42 3.47 -5.09	53.67 2.73 -6.99	43.85 3.21 10.31	50.57 2.12 -12.51	48.08 1.98 -16.61	41.85 2.14 -8.24	39.55 1.89 -5.57
SOUTH HAMPTN____IC 23720	67.82 3.48 -34.79	55.00 3.73 -21.93	52.55 4.24 -18.00	44.64 3.99 -12.56	43.03 4.02 -10.87	44.81 4.28 -9.72	42.98 4.40 -9.24	44.44 4.40 -10.27	62.77 4.99 -22.14	64.74 5.25 -21.49	72.93 5.81 -24.71	91.23 5.59 -43.97	93.62 6.02 -42.99	129.02 5.98 -78.06	171.93 6.15 -119.53	170.43 6.33 -117.86	221.15 6.80 -165.45	238.00 8.10 -172.05	218.53 6.07 -168.50	172.86 6.93 -114.99	117.51 5.07 -76.51	108.58 4.13 -74.96	82.78 4.56 -46.75	78.07 4.78 -41.20
SOUTHDOW_115KV_TB1 355954	33.06 1.36 -2.15	31.90 1.09 -1.47	31.72 0.85 -0.56	29.39 0.45 -0.85	29.16 0.48 -0.54	31.76 0.68 -0.27	31.12 0.91 -0.87	32.22 0.89 -1.56	36.66 0.25 -0.77	39.21 0.19 -1.02	43.10 0.42 -0.27	43.58 0.75 -1.15	46.78 0.80 -1.36	48.26 1.12 -2.17	49.16 1.02 -1.90	50.76 0.42 -4.10	54.18 0.29 -4.98	61.97 0.17 -3.94	47.70 0.31 -3.43	51.58 0.25 -0.38	39.39 1.65 -1.80	33.59 1.39 -2.71	34.17 0.91 -1.79	33.97 1.25 -0.63
SOUTHOLD_69_KV_BK 2 55809	68.65 4.31 -34.79	55.80 4.52 -21.93	53.34 5.03 -18.00	45.34 4.69 -12.56	43.74 4.73 -10.87	45.61 5.08 -9.72	43.77 5.19 -9.24	45.24 5.21 -10.27	63.84 6.06 -22.14	65.92 6.42 -21.49	74.33 7.21 -24.71	92.66 7.00 -43.98	95.19 7.58 -42.99	130.70 7.65 -78.08	173.63 8.09 -119.57	172.22 8.09 -117.90	223.10 8.71 -165.49	240.36 10.30 -172.21	174.91 7.74 -123.21	174.74 8.76 -115.03	118.75 6.29 -76.53	109.54 5.07 -74.98	70.89 5.54 -33.88	79.10 5.81 -41.20



SOUTHOLD___IC 23719	68.65 4.31 -34.79	55.79 4.52 -21.93	53.34 5.03 -18.00	45.34 4.69 -12.56	43.74 4.73 -10.87	45.61 5.08 -9.72	43.77 5.19 -9.24	45.24 5.21 -10.27	63.84 6.06 -22.14	65.96 6.46 -21.49	74.33 7.21 -24.71	92.65 7.00 -43.98	95.19 7.58 -42.99	130.70 7.65 -78.08	173.68 7.86 -119.57	172.22 8.09 -117.89	223.10 8.71 -165.49	240.36 10.30 -172.21	220.40 7.78 -168.66	174.74 8.76 -115.03	118.79 6.33 -76.53	109.54 5.07 -74.98	83.80 5.57 -46.76	79.00 5.71 -41.20
SPIERFLS_115KV_TB 1 80737	71.75 2.54 -39.66	58.89 2.49 -27.05	43.12 2.42 -10.39	45.96 2.19 -15.68	40.25 2.20 -9.91	38.20 2.43 -4.96	48.22 2.29 -16.59	64.84 2.35 -32.73	53.06 2.71 -14.71	60.25 2.89 -19.35	58.37 3.18 -12.78	81.14 3.38 -36.08	87.56 3.57 -39.38	108.42 3.78 -59.67	104.73 3.84 -54.65	162.13 3.65 -112.24	181.44 3.62 -128.91	172.77 3.99 -110.92	141.18 3.30 -93.92	78.11 3.77 -23.40	78.90 2.80 -40.17	94.99 2.57 -62.93	78.83 2.55 -44.81	47.35 2.60 -12.66
ST LAWRENCE____ 23600	28.96 -0.59 0.00	28.76 -0.59 0.00	29.64 -0.67 0.00	27.50 -0.59 0.00	27.58 -0.56 0.00	30.10 -0.71 0.00	28.66 -0.67 0.00	29.05 -0.71 0.00	35.00 -0.64 0.00	37.32 -0.68 0.00	41.60 -0.81 0.00	40.85 -0.83 0.00	43.72 -0.89 0.00	44.03 -0.95 0.00	45.41 -0.83 0.00	45.45 -0.79 0.00	47.93 -0.98 0.00	56.63 -1.22 0.00	43.08 -0.88 0.00	50.07 -0.87 0.00	35.00 -0.93 0.00	28.73 -0.77 0.00	30.75 -0.72 0.00	31.29 -0.80 0.00
STATE_CA_115KV_115_LB 55624	61.29 1.21 -30.54	51.38 1.20 -20.83	39.61 1.30 -8.00	41.37 1.21 -12.07	36.98 1.21 -7.63	35.95 1.32 -3.82	42.80 1.20 -12.26	49.07 1.22 -18.09	47.93 1.43 -10.87	53.82 1.52 -14.30	38.23 1.74 5.92	42.53 1.63 0.77	57.94 1.74 -11.58	57.48 1.75 -10.75	53.22 1.80 -5.17	66.80 1.76 -18.80	77.75 1.91 -26.93	73.41 2.26 -13.31	60.37 1.67 -14.74	37.68 1.94 15.20	55.09 1.40 -17.76	54.12 1.15 -23.47	44.23 1.26 -11.50	41.36 1.32 -7.96
STATE_ST_34_KV_LOAD 55959	31.71 0.74 -1.42	31.08 0.76 -0.97	31.32 0.64 -0.37	29.13 0.48 -0.56	28.98 0.48 -0.36	31.63 0.65 -0.18	30.53 0.62 -0.58	31.48 0.68 -1.03	36.83 0.68 -0.51	39.32 0.65 -0.67	43.31 0.72 -0.18	43.40 0.96 -0.76	46.50 0.98 -0.90	47.53 1.12 -1.43	48.47 0.97 -1.26	49.93 0.97 -2.72	53.08 0.88 -3.29	61.73 1.27 -2.61	47.15 0.92 -2.27	52.21 1.02 -0.25	38.20 1.08 -1.19	32.17 0.88 -1.79	33.41 0.76 -1.18	33.21 0.71 -0.42
STATION 5_MISC_HYD 23604	31.36 0.47 -1.34	30.61 0.35 -0.91	30.78 0.12 -0.35	28.54 -0.08 -0.53	28.25 -0.23 -0.33	30.91 -0.06 -0.17	30.03 0.15 -0.54	30.88 0.15 -0.97	35.87 -0.25 -0.48	38.41 -0.23 -0.63	42.41 -0.17 -0.17	42.56 0.17 -0.71	45.64 0.18 -0.85	46.68 0.36 -1.35	47.61 0.19 -1.18	48.60 -0.18 -2.55	51.71 -0.29 -3.09	59.96 -0.35 -2.45	45.83 -0.26 -2.13	50.97 -0.20 -0.24	37.88 0.83 -1.12	31.82 0.65 -1.68	32.96 0.38 -1.11	32.90 0.42 -0.39
STA_168_34_KV_BK1_2_REV_LBMP_B 345032	31.39 0.50 -1.34	30.70 0.44 -0.91	30.90 0.24 -0.35	28.71 0.08 -0.53	28.48 0.00 -0.33	31.10 0.12 -0.17	30.17 0.29 -0.54	31.06 0.33 -0.97	36.16 0.04 -0.48	38.83 0.19 -0.63	42.87 0.30 -0.17	42.98 0.58 -0.71	46.09 0.62 -0.85	47.13 0.81 -1.35	48.03 0.60 -1.18	49.16 0.37 -2.55	52.20 0.20 -3.10	60.48 0.17 -2.45	46.18 0.09 -2.14	51.38 0.20 -0.24	37.95 0.90 -1.12	31.89 0.71 -1.68	33.06 0.47 -1.11	32.86 0.39 -0.39
STA_56_34_KV_BUS2_REV_LBMP_B 345033	31.14 0.27 -1.32	30.42 0.18 -0.90	30.60 -0.06 -0.35	28.39 -0.22 -0.52	28.14 -0.34 -0.33	30.76 -0.22 -0.17	29.87 0.00 -0.54	30.72 0.00 -0.96	35.72 -0.39 -0.48	38.29 -0.34 -0.63	42.28 -0.30 -0.17	42.38 0.00 -0.71	45.54 0.09 -0.84	46.53 0.22 -1.33	47.46 0.05 -1.17	48.53 -0.23 -2.52	51.53 -0.44 -3.06	59.76 -0.52 -2.42	45.63 -0.44 -2.11	50.77 -0.41 -0.23	37.65 0.61 -1.11	31.63 0.47 -1.66	32.79 0.22 -1.10	32.64 0.16 -0.39
STA_56____34_KV_BUS2 355983	31.14 0.27 -1.32	30.42 0.18 -0.90	30.60 -0.06 -0.35	28.39 -0.22 -0.52	28.14 -0.34 -0.33	30.76 -0.22 -0.17	29.87 0.00 -0.54	30.72 0.00 -0.96	35.72 -0.39 -0.48	38.29 -0.34 -0.63	42.28 -0.30 -0.17	42.38 0.00 -0.71	45.54 0.09 -0.84	46.53 0.22 -1.33	47.46 0.05 -1.17	48.53 -0.23 -2.52	51.53 -0.44 -3.06	59.76 -0.52 -2.42	45.63 -0.44 -2.11	50.77 -0.41 -0.23	37.65 0.61 -1.11	31.63 0.47 -1.66	32.79 0.22 -1.10	32.64 0.16 -0.39
STA_67____115KV_BK2 355882	31.27 0.38 -1.34	30.52 0.26 -0.91	30.72 0.06 -0.35	28.48 -0.14 -0.53	28.22 -0.25 -0.33	30.85 -0.12 -0.17	29.97 0.09 -0.54	30.79 0.06 -0.97	35.76 -0.36 -0.48	38.29 -0.34 -0.63	42.28 -0.30 -0.17	42.39 0.00 -0.71	45.55 0.09 -0.85	46.54 0.22 -1.34	47.47 0.05 -1.18	48.55 -0.23 -2.55	51.56 -0.44 -3.09	59.78 -0.52 -2.45	45.70 -0.40 -2.13	50.87 -0.31 -0.24	37.77 0.72 -1.12	31.73 0.56 -1.68	32.90 0.31 -1.11	32.77 0.29 -0.39
STA_7____115KV_9TRANS 80674	31.53 0.65 -1.34	30.79 0.53 -0.91	30.96 0.30 -0.35	28.71 0.08 -0.53	28.42 -0.06 -0.33	31.10 0.12 -0.17	30.20 0.32 -0.54	31.06 0.33 -0.97	36.09 -0.04 -0.48	38.63 0.00 -0.63	42.70 0.13 -0.17	42.85 0.46 -0.71	45.99 0.54 -0.85	47.04 0.72 -1.35	47.98 0.55 -1.18	49.02 0.23 -2.55	52.00 0.00 -3.09	60.30 0.00 -2.45	46.14 0.04 -2.13	51.38 0.20 -0.24	38.13 1.08 -1.12	32.03 0.86 -1.68	33.18 0.60 -1.11	33.06 0.58 -0.39
STA_82____115KV_TB1 80780	31.31 0.41 -1.35	30.56 0.29 -0.92	30.72 0.06 -0.35	28.48 -0.14 -0.53	28.25 -0.23 -0.34	30.88 -0.09 -0.17	30.00 0.12 -0.55	30.80 0.06 -0.98	35.80 -0.32 -0.48	38.30 -0.34 -0.64	42.32 -0.25 -0.17	42.44 0.04 -0.72	45.55 0.09 -0.85	46.60 0.27 -1.35	47.52 0.09 -1.19	48.57 -0.23 -2.57	51.58 -0.44 -3.11	59.85 -0.46 -2.46	45.76 -0.35 -2.15	50.87 -0.31 -0.24	37.81 0.75 -1.13	31.78 0.59 -1.69	32.94 0.35 -1.12	32.80 0.32 -0.39
STEEL____WIND 323596	32.19 0.71 -1.93	31.10 0.44 -1.32	31.03 0.21 -0.51	28.69 -0.17 -0.76	28.40 -0.23 -0.48	31.05 0.00 -0.24	30.33 0.21 -0.78	31.25 0.09 -1.40	35.76 -0.57 -0.69	38.27 -0.65 -0.91	42.06 -0.59 -0.24	42.58 -0.12 -1.03	45.79 -0.04 -1.22	47.19 0.27 -1.94	48.09 0.14 -1.70	49.46 -0.46 -3.68	52.93 -0.44 -4.46	60.75 -0.64 -3.53	46.56 -0.48 -3.08	50.67 -0.61 -0.34	38.59 1.04 -1.61	32.78 0.86 -2.43	33.48 0.41 -1.61	33.33 0.67 -0.56
STEPHTWN_115KV_BK_2 55603	57.56 1.33 -26.69	48.87 1.32 -18.20	38.70 1.39 -6.99	39.93 1.29 -10.55	36.11 1.29 -6.67	35.59 1.45 -3.34	41.26 1.32 -10.61	45.46 1.34 -14.35	46.61 1.57 -9.40	52.05 1.67 -12.37	35.92 1.91 8.40	34.05 1.83 9.47	29.86 1.96 16.71	40.19 1.98 6.76	40.21 2.03 8.07	40.17 2.03 8.10	58.45 2.15 -7.39	48.50 2.55 11.90	40.04 1.89 5.82	33.05 2.19 20.08	50.37 1.62 -12.82	46.19 1.30 -15.40	38.23 1.42 -5.35	40.15 1.48 -6.59
STEUBEN_REC_LFGE 323667	33.52 1.36 -2.62	32.33 1.20 -1.78	31.93 0.94 -0.69	29.74 0.62 -1.03	29.44 0.65 -0.65	32.09 0.96 -0.33	31.42 1.03 -1.06	32.64 0.98 -1.90	37.08 0.50 -0.94	39.85 0.61 -1.24	43.59 0.85 -0.33	44.37 1.29 -1.39	47.70 1.43 -1.66	49.27 1.66 -2.63	49.98 1.43 -2.31	52.34 1.11 -4.99	56.07 1.12 -6.04	63.79 1.16 -4.78	49.05 0.92 -4.17	52.52 1.12 -0.46	39.99 1.87 -2.19	34.34 1.56 -3.29	34.90 1.26 -2.17	34.20 1.35 -0.76



STONY___BROOK 24151	67.32 2.98 -34.79	54.42 3.14 -21.93	51.89 3.57 -18.00	43.97 3.31 -12.56	42.39 3.38 -10.87	44.13 3.60 -9.72	42.28 3.70 -9.25	43.75 3.72 -10.27	61.99 4.20 -22.14	63.87 4.37 -21.50	71.81 4.62 -24.78	94.09 4.04 -48.37	96.29 4.19 -47.48	140.77 4.23 -91.57	194.01 4.35 -143.42	189.14 4.58 -138.32	248.35 5.04 -194.40	295.29 6.07 -231.36	278.07 4.53 -229.58	195.63 5.04 -139.64	127.81 3.67 -88.21	118.68 3.10 -86.10	91.03 3.71 -55.84	80.71 3.95 -44.68
STURGEON_POOL_HYD 23609	44.82 1.06 -14.21	40.15 1.12 -9.69	35.40 1.36 -3.72	35.00 1.29 -5.62	32.99 1.29 -3.55	33.97 1.39 -1.78	36.50 1.44 -5.72	40.85 1.43 -9.65	42.30 1.57 -5.09	46.45 1.75 -6.70	45.04 2.42 -0.21	48.24 2.08 -4.47	51.67 2.10 -4.96	57.10 2.11 -10.01	56.93 2.27 -8.42	68.25 2.54 -19.47	77.47 2.98 -25.58	79.43 3.53 -18.04	62.82 2.55 -16.31	52.69 2.55 0.80	47.86 1.33 -10.60	46.27 1.36 -15.42	42.69 1.67 -9.56	37.68 1.60 -3.98
SUGRLOAF_69_KV_LOAD_REV_LBMP_G 345026	41.94 1.15 -11.24	38.22 1.20 -7.67	34.68 1.42 -2.95	33.86 1.32 -4.44	32.28 1.32 -2.81	33.63 1.42 -1.40	35.35 1.47 -4.55	39.35 1.46 -8.13	41.31 1.64 -4.03	45.09 1.79 -5.30	45.85 2.04 -1.40	49.44 1.79 -5.97	53.58 1.87 -7.09	58.19 1.93 -11.28	58.15 2.03 -9.88	69.88 2.27 -21.38	77.48 2.64 -25.93	81.45 3.07 -20.54	64.05 2.20 -17.89	55.16 2.24 -1.98	46.86 1.55 -9.38	44.90 1.30 -14.11	42.28 1.48 -9.33	37.00 1.64 -3.28
SWANROAD_115KV_TB1 355699	31.00 -0.30 -1.75	30.01 -0.53 -1.19	29.98 -0.79 -0.46	27.72 -1.07 -0.69	27.45 -1.13 -0.44	29.98 -1.05 -0.22	29.31 -0.73 -0.71	30.02 -1.01 -1.27	34.42 -1.85 -0.63	36.70 -2.13 -0.83	40.42 -2.21 -0.22	40.86 -1.75 -0.93	43.85 -1.87 -1.11	45.07 -1.66 -1.76	45.94 -1.85 -1.54	47.26 -2.31 -3.33	50.41 -2.54 -4.04	57.99 -3.07 -3.20	44.51 -2.24 -2.79	48.75 -2.50 -0.31	37.15 -0.25 -1.46	31.52 -0.18 -2.20	32.36 -0.57 -1.46	32.28 -0.32 -0.51
SYNERGY___BIOGAS 323694	31.91 0.77 -1.59	31.02 0.59 -1.09	31.03 0.30 -0.42	28.72 0.00 -0.63	28.37 -0.17 -0.40	31.07 0.06 -0.20	30.34 0.35 -0.65	31.15 0.24 -1.15	35.86 -0.36 -0.57	38.41 -0.34 -0.75	42.36 -0.25 -0.20	42.69 0.17 -0.85	45.80 0.18 -1.01	47.03 0.45 -1.60	47.88 0.23 -1.40	48.95 -0.32 -3.04	52.15 -0.44 -3.68	60.24 -0.52 -2.91	46.15 -0.35 -2.54	51.02 -0.20 -0.28	38.49 1.22 -1.33	32.53 1.03 -2.00	33.49 0.69 -1.32	33.45 0.90 -0.47
SYRACUSE___ENERGY_ST1 323597	29.67 0.12 0.00	29.43 0.09 0.00	30.28 -0.03 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.78 -0.03 0.00	29.31 -0.03 0.00	29.79 0.03 0.00	35.53 -0.11 0.00	38.00 0.00 0.00	42.45 0.04 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.29 0.31 0.00	46.43 0.18 0.00	46.42 0.18 0.00	49.05 0.15 0.00	57.85 0.00 0.00	43.92 -0.04 0.00	50.84 -0.10 0.00	36.15 0.22 0.00	29.64 0.15 0.00	31.53 0.06 0.00	32.12 0.03 0.00
SYRACUSE___ENERGY_ST2 323598	29.67 0.12 0.00	29.43 0.09 0.00	30.28 -0.03 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.78 -0.03 0.00	29.31 -0.03 0.00	29.79 0.03 0.00	35.53 -0.11 0.00	38.00 0.00 0.00	42.45 0.04 0.00	41.89 0.21 0.00	44.84 0.22 0.00	45.29 0.31 0.00	46.43 0.18 0.00	46.42 0.18 0.00	49.05 0.15 0.00	57.85 0.00 0.00	43.92 -0.04 0.00	50.84 -0.10 0.00	36.15 0.22 0.00	29.64 0.15 0.00	31.53 0.06 0.00	32.12 0.03 0.00
SYRACUSE___POWER 24017	30.70 0.03 -1.12	30.11 0.00 -0.77	30.48 -0.12 -0.29	28.37 -0.17 -0.44	28.26 -0.17 -0.28	30.83 -0.12 -0.14	29.68 -0.12 -0.46	30.52 -0.06 -0.82	35.87 -0.18 -0.40	38.38 -0.15 -0.53	42.47 -0.08 -0.14	42.36 0.08 -0.60	45.41 0.09 -0.71	46.29 0.18 -1.13	47.28 0.05 -0.99	48.38 0.00 -2.14	51.51 0.00 -2.60	59.79 -0.12 -2.06	45.62 -0.13 -1.79	50.94 -0.20 -0.20	37.02 0.14 -0.94	30.99 0.09 -1.41	32.37 -0.03 -0.93	32.35 -0.06 -0.33
TALLMAN___138KV_BK151 55660	42.43 1.24 -11.64	38.61 1.32 -7.94	34.94 1.58 -3.05	34.16 1.46 -4.60	32.54 1.49 -2.91	33.84 1.57 -1.45	35.72 1.67 -4.71	39.85 1.67 -8.42	41.67 1.85 -4.17	45.47 1.98 -5.49	46.11 2.25 -1.46	49.83 1.96 -6.19	54.06 2.10 -7.35	58.87 2.20 -11.69	58.84 2.36 -10.23	70.98 2.59 -22.15	78.75 2.98 -26.86	82.71 3.59 -21.27	65.08 2.59 -18.53	55.59 2.60 -2.05	47.45 1.80 -9.72	45.58 1.47 -14.61	42.84 1.70 -9.67	37.38 1.89 -3.40
TEALLAVE_115KV_TB7 355573	29.46 -0.09 0.00	29.23 -0.12 0.00	30.07 -0.24 0.00	27.81 -0.28 0.00	27.86 -0.28 0.00	30.56 -0.25 0.00	29.10 -0.23 0.00	29.58 -0.18 0.00	35.32 -0.32 0.00	37.74 -0.27 0.00	42.16 -0.25 0.00	41.55 -0.13 0.00	44.52 -0.09 0.00	44.97 0.00 0.00	46.11 -0.14 0.00	46.05 -0.18 0.00	48.66 -0.24 0.00	57.51 -0.35 0.00	43.61 -0.35 0.00	50.48 -0.46 0.00	35.90 -0.04 0.00	29.43 -0.06 0.00	31.31 -0.16 0.00	31.90 -0.19 0.00
TELGRAPH_34_KV_EAST 80808	31.49 0.30 -1.65	30.56 0.09 -1.13	30.56 -0.18 -0.43	28.27 -0.48 -0.65	27.99 -0.56 -0.41	30.58 -0.43 -0.21	29.89 -0.12 -0.67	30.66 -0.30 -1.20	35.24 -1.00 -0.59	37.68 -1.10 -0.78	41.56 -1.06 -0.21	41.93 -0.63 -0.88	45.03 -0.62 -1.04	46.23 -0.40 -1.66	47.10 -0.60 -1.45	48.32 -1.06 -3.15	51.41 -1.32 -3.82	59.26 -1.62 -3.02	45.45 -1.14 -2.63	50.01 -1.22 -0.29	37.93 0.61 -1.38	32.10 0.53 -2.08	33.10 0.25 -1.37	33.02 0.45 -0.48
TEMPLE___115KV_TB 2 55572	29.49 -0.06 0.00	29.26 -0.09 0.00	30.10 -0.21 0.00	27.84 -0.25 0.00	27.89 -0.25 0.00	30.59 -0.22 0.00	29.13 -0.21 0.00	29.61 -0.15 0.00	35.36 -0.29 0.00	37.77 -0.23 0.00	42.20 -0.21 0.00	41.60 -0.08 0.00	44.57 -0.04 0.00	45.02 0.04 0.00	46.15 -0.09 0.00	46.10 -0.14 0.00	48.71 -0.20 0.00	57.56 -0.29 0.00	43.65 -0.31 0.00	50.53 -0.41 0.00	35.93 0.00 0.00	29.46 -0.03 0.00	31.34 -0.13 0.00	31.93 -0.16 0.00
TIANA___69_KV_BK 1 55817	67.62 3.28 -34.79	54.80 3.52 -21.93	52.34 4.03 -18.00	44.44 3.79 -12.56	42.87 3.86 -10.87	44.59 4.07 -9.72	42.80 4.22 -9.24	44.23 4.20 -10.27	62.52 4.74 -22.14	64.44 4.94 -21.49	72.59 5.47 -24.71	90.91 5.25 -43.97	93.23 5.62 -42.99	128.63 5.58 -78.08	171.54 5.73 -119.56	170.04 5.92 -117.89	220.80 6.41 -165.48	237.55 7.52 -172.18	172.80 5.67 -123.17	172.44 6.47 -115.03	117.24 4.78 -76.53	108.36 3.89 -74.97	69.66 4.31 -33.88	77.88 4.59 -41.20
TILDEN___115KV_TB1 80814	30.70 0.03 -1.12	30.11 0.00 -0.77	30.48 -0.12 -0.29	28.37 -0.17 -0.44	28.26 -0.17 -0.28	30.83 -0.12 -0.14	29.68 -0.12 -0.46	30.52 -0.06 -0.82	35.87 -0.18 -0.40	38.38 -0.15 -0.53	42.47 -0.08 -0.14	42.36 0.08 -0.60	45.41 0.09 -0.71	46.29 0.18 -1.13	47.28 0.05 -0.99	48.38 0.00 -2.14	51.51 0.00 -2.60	59.79 -0.12 -2.06	45.62 -0.13 -1.79	50.94 -0.20 -0.20	37.02 0.14 -0.94	30.99 0.09 -1.41	32.37 -0.03 -0.93	32.35 -0.06 -0.33
TRIGEN___CC 323695	66.32 1.98 -34.79	53.36 2.08 -21.93	50.68 2.39 -17.98	42.85 2.22 -12.54	41.27 2.28 -10.85	42.92 2.40 -9.71	41.02 2.46 -9.22	41.64 2.50 -9.38	60.54 2.78 -22.12	62.40 2.93 -21.47	70.03 3.14 -24.48	72.55 2.79 -28.08	74.40 3.03 -26.76	77.37 3.10 -29.29	82.75 3.24 -33.27	93.78 3.56 -43.98	113.81 4.01 -60.89	117.63 4.74 -55.03	92.53 3.47 -45.10	80.60 3.67 -25.99	72.81 2.59 -34.28	66.37 2.12 -34.75	47.89 2.52 -13.90	63.54 2.73 -28.72



TRINITY__115KV__4 BK 55933	57.93 1.06 -27.32	49.04 1.06 -18.63	38.65 1.18 -7.16	39.99 1.10 -10.80	36.07 1.10 -6.83	35.42 1.20 -3.41	41.30 1.09 -10.88	45.82 1.07 -14.99	46.53 1.25 -9.64	52.02 1.33 -12.69	35.90 1.44 7.95	36.78 1.33 6.24	47.51 1.43 -1.47	47.87 1.44 -1.45	44.88 1.48 2.85	50.48 1.48 -2.76	62.09 1.61 -11.57	57.33 1.91 2.43	47.17 1.45 -1.76	33.43 1.68 19.19	50.82 1.22 -13.66	47.28 1.00 -16.79	39.02 1.13 -6.41	40.09 1.19 -6.82
UNION__PROCESSING_DRP 323587	31.31 0.41 -1.35	30.56 0.29 -0.92	30.75 0.09 -0.35	28.51 -0.11 -0.53	28.26 -0.23 -0.34	30.88 -0.09 -0.17	30.00 0.12 -0.55	30.83 0.09 -0.98	35.80 -0.32 -0.48	38.34 -0.30 -0.64	42.32 -0.25 -0.17	42.44 0.04 -0.72	45.60 0.13 -0.85	46.60 0.27 -1.36	47.52 0.09 -1.19	48.62 -0.18 -2.57	51.63 -0.39 -3.12	59.91 -0.40 -2.47	45.80 -0.31 -2.15	50.92 -0.25 -0.24	37.85 0.79 -1.13	31.78 0.59 -1.69	32.94 0.35 -1.12	32.84 0.35 -0.39
UPPER HUDSON__HYD 24058	71.75 2.54 -39.66	58.89 2.49 -27.05	43.13 2.43 -10.39	45.96 2.19 -15.68	40.25 2.20 -9.91	38.20 2.43 -4.96	48.22 2.29 -16.59	64.84 2.35 -32.73	59.83 2.71 -21.48	71.01 2.89 -30.13	58.38 3.18 -12.78	81.14 3.37 -36.08	87.56 3.57 -39.38	108.42 3.78 -59.67	104.73 3.84 -54.65	162.08 3.61 -112.24	181.44 3.62 -128.91	172.76 3.99 -110.92	141.18 3.30 -93.92	78.11 3.77 -23.40	78.87 2.77 -40.17	94.98 2.56 -62.93	78.83 2.55 -44.81	47.35 2.60 -12.66
UPPER RAQUET__HYD 24056	29.19 -0.35 0.00	28.99 -0.35 0.00	29.79 -0.52 0.00	27.64 -0.45 0.00	27.61 -0.54 0.00	29.89 -0.92 0.00	28.28 -1.05 0.00	28.72 -1.04 0.00	34.50 -1.14 0.00	36.86 -1.14 0.00	41.05 -1.36 0.00	40.39 -1.29 0.00	43.14 -1.47 0.00	43.36 -1.62 0.00	44.76 -1.48 0.00	44.85 -1.39 0.00	47.15 -1.76 0.00	55.65 -2.20 0.00	42.38 -1.58 0.00	49.41 -1.53 0.00	34.46 -1.47 0.00	28.26 -1.24 0.00	30.56 -0.91 0.00	31.00 -1.09 0.00
VALLEY44_115KV_TB2 355964	32.39 0.65 -2.19	31.28 0.44 -1.49	31.10 0.21 -0.57	28.85 -0.11 -0.87	28.58 -0.11 -0.55	31.14 0.06 -0.27	30.49 0.26 -0.89	31.50 0.15 -1.59	35.79 -0.64 -0.79	38.24 -0.80 -1.03	41.96 -0.72 -0.27	42.51 -0.33 -1.17	45.69 -0.31 -1.38	47.18 0.00 -2.20	48.13 -0.05 -1.93	49.81 -0.60 -4.18	53.24 -0.73 -5.06	60.99 -0.87 -4.01	46.88 -0.57 -3.49	50.56 -0.76 -0.39	38.52 0.75 -1.83	32.90 0.65 -2.75	33.48 0.19 -1.82	33.34 0.61 -0.64
VALLEY__115KV_TB 1-4 80826	29.46 -0.09 0.00	29.26 -0.09 0.00	30.22 -0.09 0.00	28.01 -0.08 0.00	28.06 -0.08 0.00	30.72 -0.09 0.00	29.25 -0.09 0.00	29.67 -0.09 0.00	35.57 -0.07 0.00	38.19 0.19 0.00	42.71 0.30 0.00	42.01 0.33 0.00	44.93 0.31 0.00	45.20 0.22 0.00	46.38 0.14 0.00	46.33 0.09 0.00	49.01 0.10 0.00	57.56 -0.29 0.00	43.70 -0.26 0.00	50.64 -0.31 0.00	35.75 -0.18 0.00	29.38 -0.12 0.00	31.31 -0.16 0.00	31.93 -0.16 0.00
VINEGAR_115_KV_917_CH_LD_REV_LBMP_E 345011	40.32 1.95 -8.82	37.30 1.94 -6.02	34.56 1.94 -2.31	33.43 1.85 -3.49	32.21 1.86 -2.20	33.98 2.06 -1.10	34.72 1.79 -3.59	38.13 1.93 -6.43	41.11 2.28 -3.19	44.59 2.39 -4.19	46.32 2.80 -1.11	49.32 2.92 -4.73	53.17 2.94 -5.61	56.74 2.83 -8.93	56.88 2.82 -7.82	65.88 2.73 -16.92	72.34 2.93 -20.50	77.61 3.53 -16.23	60.74 2.64 -14.14	55.51 3.01 -1.56	45.69 2.34 -7.42	42.53 1.89 -11.15	40.80 1.95 -7.38	36.67 1.99 -2.59
VISCHER__FERRY HYD 24020	66.05 1.62 -34.87	54.78 1.64 -23.79	41.20 1.76 -9.14	43.51 1.63 -13.79	38.49 1.63 -8.71	36.95 1.79 -4.36	46.28 1.79 -15.16	67.46 1.82 -35.88	70.69 2.07 -32.99	89.02 2.24 -48.77	71.69 2.50 -26.78	104.45 2.42 -60.36	103.85 2.63 -56.61	136.23 2.65 -88.60	134.24 2.73 -85.27	216.11 2.73 -167.14	236.89 2.88 -185.09	231.36 3.41 -170.09	187.09 2.59 -140.53	107.20 2.95 -53.31	86.53 2.19 -48.41	111.40 1.80 -80.11	95.55 1.92 -62.16	47.05 2.02 -12.94
V_A_10_SYNC_DSASP 323832	31.09 0.00 -1.54	30.22 -0.18 -1.05	30.32 -0.39 -0.40	28.05 -0.65 -0.61	27.82 -0.70 -0.38	30.42 -0.59 -0.19	29.61 -0.35 -0.62	30.37 -0.51 -1.12	35.02 -1.18 -0.55	37.40 -1.33 -0.73	41.20 -1.40 -0.19	41.46 -1.04 -0.82	44.56 -1.03 -0.97	45.67 -0.85 -1.55	46.58 -1.02 -1.36	47.79 -1.39 -2.94	50.90 -1.57 -3.56	58.76 -1.91 -2.82	45.01 -1.41 -2.46	49.63 -1.58 -0.27	37.40 0.18 -1.29	31.55 0.12 -1.94	32.56 -0.19 -1.28	32.44 -0.10 -0.45
V_CMM_10_SYNC_DSASP 323787	29.07 -0.47 0.00	28.87 -0.47 0.00	29.77 -0.54 0.00	27.61 -0.48 0.00	27.69 -0.45 0.00	30.22 -0.59 0.00	28.78 -0.56 0.00	29.17 -0.60 0.00	35.14 -0.50 0.00	37.47 -0.53 0.00	41.73 -0.68 0.00	41.01 -0.67 0.00	43.90 -0.72 0.00	44.21 -0.76 0.00	45.60 -0.65 0.00	45.63 -0.60 0.00	48.08 -0.83 0.00	56.81 -1.04 0.00	43.26 -0.71 0.00	50.28 -0.66 0.00	35.11 -0.83 0.00	28.84 -0.65 0.00	30.87 -0.60 0.00	31.41 -0.68 0.00
V_CMP_10_SYNC_DSASP 323788	29.58 0.03 0.00	29.34 0.00 0.00	30.16 -0.15 0.00	27.98 -0.11 0.00	28.12 -0.03 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.92 0.28 0.00	38.30 0.30 0.00	42.67 0.26 0.00	41.93 0.25 0.00	44.84 0.22 0.00	45.16 0.18 0.00	46.57 0.33 0.00	46.56 0.33 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.23 0.27 0.00	51.50 0.56 0.00	35.97 0.04 0.00	29.49 0.00 0.00	31.53 0.06 0.00	32.02 -0.06 0.00
V_E_10_SYNC_DSASP 323830	37.21 2.84 -4.83	35.40 2.76 -3.29	34.09 2.51 -1.27	32.28 2.27 -1.91	31.60 2.25 -1.21	33.97 2.56 -0.60	33.47 2.17 -1.96	35.69 2.41 -3.51	39.98 2.60 -1.74	43.33 3.04 -2.29	46.62 3.60 -0.61	48.35 4.09 -2.58	51.96 4.28 -3.06	54.08 4.23 -4.88	54.68 4.16 -4.27	59.50 4.02 -9.24	64.31 4.21 -11.20	71.46 4.74 -8.87	55.42 3.73 -7.72	56.18 4.38 -0.85	43.51 3.52 -4.05	38.41 2.83 -6.09	38.27 2.77 -4.03	36.20 2.70 -1.42
V_F_30_NSYNC__DSASP 323816	70.99 2.36 -39.08	58.35 2.35 -26.66	42.91 2.37 -10.24	45.71 2.16 -15.45	40.08 2.17 -9.77	38.07 2.37 -4.88	48.02 2.26 -16.42	65.24 2.29 -33.18	61.33 2.67 -23.02	73.46 2.85 -32.61	60.31 3.27 -14.64	84.28 3.29 -39.31	89.81 3.52 -41.68	112.15 3.64 -63.54	108.68 3.70 -58.73	169.42 3.61 -119.58	189.12 3.77 -136.44	181.01 4.34 -118.82	147.45 3.34 -100.15	82.12 3.82 -27.36	80.07 2.84 -41.30	97.11 2.36 -65.26	81.07 2.46 -47.14	47.33 2.53 -12.71
V_F_30_SYNC_DSASP 323786	61.03 1.21 -30.28	51.20 1.20 -20.65	39.55 1.30 -7.93	41.27 1.21 -11.97	36.92 1.21 -7.57	35.92 1.32 -3.78	42.69 1.20 -12.15	48.83 1.22 -17.84	47.83 1.43 -10.77	53.69 1.52 -14.17	38.07 1.74 6.08	42.10 1.63 1.20	57.10 1.74 -10.75	56.73 1.75 -10.00	52.58 1.80 -4.53	65.52 1.76 -17.52	76.54 1.91 -25.72	72.16 2.26 -12.05	59.34 1.67 -13.71	37.37 1.94 15.51	54.77 1.40 -17.43	53.59 1.15 -22.94	43.83 1.26 -11.10	41.27 1.32 -7.87
V_XM_10_SYNC_DSASP 323789	29.58 0.03 0.00	29.34 0.00 0.00	30.16 -0.15 0.00	27.98 -0.11 0.00	28.12 -0.03 0.00	30.69 -0.12 0.00	29.25 -0.09 0.00	29.79 0.03 0.00	35.92 0.28 0.00	38.30 0.30 0.00	42.67 0.26 0.00	41.93 0.25 0.00	44.84 0.22 0.00	45.16 0.18 0.00	46.57 0.33 0.00	46.56 0.33 0.00	48.96 0.05 0.00	57.91 0.06 0.00	44.23 0.27 0.00	51.50 0.56 0.00	35.97 0.04 0.00	29.49 0.00 0.00	31.53 0.06 0.00	32.02 -0.06 0.00



W.NYACK_69_KV_BK 521_REV_LBMP_G 345027	42.64 1.36 -11.73	38.78 1.44 -8.00	35.05 1.67 -3.07	34.28 1.55 -4.64	32.65 1.58 -2.93	33.94 1.66 -1.47	35.84 1.76 -4.75	40.04 1.79 -8.49	41.81 1.96 -4.21	45.66 2.13 -5.53	46.29 2.42 -1.47	50.04 2.13 -6.24	54.25 2.23 -7.40	59.10 2.34 -11.78	59.06 2.50 -10.31	71.29 2.73 -22.33	79.15 3.18 -27.06	83.04 3.76 -21.43	65.36 2.73 -18.67	55.76 2.75 -2.07	47.63 1.90 -9.79	45.78 1.56 -14.72	43.00 1.79 -9.74	37.50 1.99 -3.42
W49TH_ST_138_KV_38M43_REV_LBMP_J 345008	43.29 1.45 -12.30	39.29 1.56 -8.39	35.41 1.88 -3.22	34.72 1.77 -4.86	33.05 1.83 -3.07	34.26 1.91 -1.54	36.37 2.05 -4.98	40.75 2.08 -8.90	42.33 2.28 -4.41	46.24 2.43 -5.80	46.66 2.71 -1.54	50.68 2.38 -6.62	55.56 2.54 -8.41	60.28 2.70 -12.61	59.98 2.77 -10.96	73.19 3.24 -23.72	80.99 3.67 -28.41	84.96 4.40 -22.71	66.85 3.12 -19.77	56.21 3.11 -2.17	48.36 2.16 -10.27	46.67 1.74 -15.43	43.76 2.08 -10.21	37.92 2.25 -3.59
W50THST__13_KV_LOAD 356117	43.44 1.60 -12.30	39.44 1.70 -8.39	35.59 2.06 -3.22	34.86 1.91 -4.86	33.19 1.97 -3.07	34.44 2.10 -1.54	36.57 2.26 -4.98	40.96 2.29 -8.90	42.58 2.53 -4.41	46.54 2.74 -5.80	47.00 3.05 -1.54	51.01 2.71 -6.62	55.88 2.86 -8.41	60.64 3.06 -12.61	60.35 3.14 -10.96	73.56 3.61 -23.72	81.43 4.11 -28.41	85.37 4.80 -22.71	67.20 3.47 -19.77	56.52 3.41 -2.17	48.54 2.34 -10.27	46.84 1.92 -15.43	43.95 2.27 -10.21	38.12 2.44 -3.59
WADING RIVER_IC_1 23522	67.00 2.66 -34.79	54.24 2.96 -21.93	51.79 3.48 -18.00	44.02 3.37 -12.56	42.44 3.43 -10.87	44.10 3.57 -9.72	42.34 3.76 -9.24	43.69 3.66 -10.27	61.77 3.99 -22.14	63.60 4.11 -21.49	71.70 4.58 -24.71	89.99 4.38 -43.94	92.30 4.73 -42.96	127.48 4.54 -77.97	170.28 4.67 -119.37	168.77 4.81 -117.72	219.34 5.18 -165.25	235.13 6.02 -171.26	216.23 4.57 -167.69	171.06 5.30 -114.82	116.39 4.02 -76.43	107.65 3.27 -74.88	81.80 3.65 -46.68	77.18 3.91 -41.17
WADING RIVER_IC_2 23547	67.00 2.66 -34.79	54.24 2.96 -21.93	51.79 3.48 -18.00	44.02 3.37 -12.56	42.44 3.43 -10.87	44.10 3.57 -9.72	42.34 3.76 -9.24	43.69 3.66 -10.27	61.77 3.99 -22.14	63.60 4.11 -21.49	71.70 4.58 -24.71	89.99 4.38 -43.94	92.30 4.73 -42.96	127.48 4.54 -77.97	170.28 4.67 -119.37	168.77 4.81 -117.72	219.34 5.18 -165.25	235.13 6.02 -171.26	216.23 4.57 -167.69	171.06 5.30 -114.82	116.39 4.02 -76.43	107.65 3.27 -74.88	81.80 3.65 -46.68	77.18 3.91 -41.17
WADING RIVER_IC_3 23601	67.00 2.66 -34.79	54.24 2.96 -21.93	51.79 3.48 -18.00	44.02 3.37 -12.56	42.44 3.43 -10.87	44.10 3.57 -9.72	42.34 3.76 -9.24	43.69 3.66 -10.27	61.77 3.99 -22.14	63.60 4.11 -21.49	71.70 4.58 -24.71	89.99 4.38 -43.94	92.30 4.73 -42.96	127.48 4.54 -77.97	170.28 4.67 -119.37	168.77 4.81 -117.72	219.34 5.18 -165.25	235.13 6.02 -171.26	216.23 4.57 -167.69	171.06 5.30 -114.82	116.39 4.02 -76.43	107.65 3.27 -74.88	81.80 3.65 -46.68	77.18 3.91 -41.17
WALDENNY_I2_KV_BK2 80841	32.14 0.68 -1.91	31.06 0.41 -1.30	30.99 0.18 -0.50	28.65 -0.20 -0.76	28.42 -0.20 -0.48	30.99 -0.06 -0.24	30.29 0.18 -0.77	31.21 0.06 -1.39	35.76 -0.57 -0.69	38.26 -0.65 -0.90	42.06 -0.59 -0.24	42.61 -0.08 -1.02	45.82 0.00 -1.21	47.17 0.27 -1.92	48.02 0.09 -1.68	49.51 -0.37 -3.65	52.79 -0.54 -4.42	60.54 -0.81 -3.50	46.53 -0.48 -3.05	50.62 -0.66 -0.34	38.58 1.04 -1.60	32.75 0.86 -2.41	33.50 0.44 -1.59	33.26 0.61 -0.56
WALDEN___HYDRO 24148	43.01 1.54 -11.93	39.04 1.55 -8.14	35.19 1.76 -3.13	34.41 1.60 -4.72	32.70 1.58 -2.98	34.02 1.72 -1.49	35.92 1.76 -4.82	40.18 1.79 -8.63	41.91 1.99 -4.27	45.75 2.13 -5.62	46.36 2.46 -1.49	50.22 2.21 -6.34	54.37 2.23 -7.53	59.20 2.25 -11.98	59.13 2.40 -10.48	71.57 2.63 -22.69	79.34 2.93 -27.50	83.16 3.53 -21.77	65.57 2.64 -18.97	55.79 2.75 -2.10	47.71 1.83 -9.95	46.01 1.56 -14.96	43.16 1.79 -9.90	37.43 1.86 -3.48
WARRENSBURG____ 23737	71.75 2.54 -39.66	58.89 2.49 -27.05	43.13 2.43 -10.39	45.96 2.19 -15.68	40.25 2.20 -9.91	38.20 2.43 -4.96	48.22 2.29 -16.59	64.84 2.35 -32.73	59.83 2.71 -21.48	71.01 2.89 -30.13	58.38 3.18 -12.78	81.14 3.37 -36.08	87.56 3.57 -39.38	108.42 3.78 -59.67	104.73 3.84 -54.65	162.08 3.61 -112.24	181.44 3.62 -128.91	172.76 3.99 -110.92	141.18 3.30 -93.92	78.11 3.77 -23.40	78.87 2.77 -40.17	94.98 2.56 -62.93	78.83 2.55 -44.81	47.35 2.60 -12.66
WATERSIDE___6 8 9 23538	43.08 1.24 -12.29	39.17 1.44 -8.39	35.38 1.85 -3.22	34.67 1.71 -4.86	32.99 1.77 -3.07	34.13 1.79 -1.54	36.31 1.99 -4.98	40.60 1.93 -8.91	42.05 2.00 -4.41	45.93 2.13 -5.80	46.31 2.37 -1.53	50.29 2.00 -6.61	55.15 2.14 -8.40	54.05 2.25 -6.83	50.19 2.36 -1.59	56.79 2.77 -7.78	77.83 3.18 -25.75	61.53 3.93 0.25	48.79 2.73 -2.10	45.98 2.85 7.82	48.10 1.90 -10.26	46.45 1.53 -15.42	43.57 1.89 -10.21	37.92 2.25 -3.59
WATKINRD_115KV_LN8_ILLION 55919	29.52 -0.03 0.00	29.32 -0.03 0.00	30.28 -0.03 0.00	28.06 -0.03 0.00	28.12 -0.03 0.00	30.78 -0.03 0.00	29.28 -0.06 0.00	29.73 -0.03 0.00	35.60 -0.04 0.00	38.08 0.08 0.00	42.54 0.13 0.00	41.89 0.21 0.00	44.79 0.18 0.00	45.06 0.09 0.00	46.29 0.05 0.00	46.28 0.05 0.00	48.96 0.05 0.00	57.74 -0.12 0.00	43.87 -0.09 0.00	50.79 -0.15 0.00	35.90 -0.04 0.00	29.46 -0.03 0.00	31.41 -0.06 0.00	32.02 -0.06 0.00
WATSON___69_KV_BK 1 55734	67.68 3.34 -34.79	54.74 3.46 -21.93	52.15 3.85 -17.99	44.18 3.54 -12.55	42.61 3.60 -10.86	44.41 3.88 -9.72	42.48 3.90 -9.24	43.95 3.96 -10.23	62.30 4.53 -22.13	64.32 4.83 -21.49	72.09 5.09 -24.59	82.33 4.63 -36.02	84.43 4.95 -34.87	103.59 4.95 -53.67	127.80 5.18 -76.38	132.50 5.36 -80.90	167.97 5.92 -113.14	179.69 7.00 -114.83	135.61 5.23 -86.41	127.32 5.91 -70.47	95.63 4.31 -55.39	87.91 3.57 -54.85	59.70 4.06 -24.17	71.46 4.27 -35.10
WDELAWARE___HYD 323627	41.71 0.86 -11.30	37.91 0.85 -7.71	34.27 1.00 -2.96	33.52 0.96 -4.47	31.87 0.90 -2.82	33.21 0.99 -1.41	34.92 1.03 -4.56	38.94 1.01 -8.16	41.22 1.53 -4.04	44.96 1.63 -5.32	45.77 1.95 -1.41	49.29 1.71 -5.90	52.68 1.69 -6.37	56.42 0.40 -11.04	56.55 0.56 -9.75	68.19 0.83 -21.12	76.00 1.13 -25.97	79.90 1.73 -20.31	62.95 1.28 -17.72	54.05 1.12 -1.99	45.96 0.61 -9.41	44.88 1.24 -14.15	42.28 1.45 -9.36	36.89 1.51 -3.29
WEST BABYLON___IC 23714	67.35 3.01 -34.79	54.39 3.11 -21.93	51.75 3.46 -17.99	43.84 3.20 -12.55	42.27 3.26 -10.86	44.01 3.48 -9.72	42.12 3.55 -9.23	43.50 3.60 -10.13	61.87 4.10 -22.13	63.90 4.41 -21.48	71.58 4.67 -24.51	75.84 4.17 -29.99	77.78 4.46 -28.71	84.67 4.54 -35.16	94.61 4.72 -43.65	104.05 4.95 -52.87	127.85 5.48 -73.47	129.61 6.42 -65.34	98.98 4.79 -50.23	92.99 5.35 -36.70	79.18 3.88 -39.36	72.33 3.24 -39.59	51.35 3.71 -16.17	66.45 3.91 -30.45
WEST CANADA___HYD 24049	29.61 0.06 0.00	29.40 0.06 0.00	30.37 0.06 0.00	28.15 0.06 0.00	28.20 0.06 0.00	30.87 0.06 0.00	29.40 0.06 0.00	29.82 0.06 0.00	35.71 0.07 0.00	38.08 0.08 0.00	42.54 0.13 0.00	41.80 0.13 0.00	44.75 0.13 0.00	45.06 0.09 0.00	46.34 0.09 0.00	46.28 0.05 0.00	49.01 0.10 0.00	57.91 0.06 0.00	44.05 0.09 0.00	51.04 0.10 0.00	36.04 0.11 0.00	29.58 0.09 0.00	31.53 0.06 0.00	32.18 0.10 0.00



WESTERN_NY_WIND 24143	31.87 0.71 -1.61	30.97 0.53 -1.10	30.97 0.24 -0.42	28.67 -0.06 -0.64	28.32 -0.23 -0.40	31.04 0.03 -0.20	30.32 0.32 -0.65	31.11 0.18 -1.17	35.79 -0.43 -0.58	38.35 -0.42 -0.76	42.27 -0.34 -0.20	42.62 0.08 -0.86	45.72 0.09 -1.02	46.96 0.36 -1.63	47.81 0.14 -1.42	48.90 -0.42 -3.08	52.15 -0.49 -3.73	60.17 -0.64 -2.96	46.10 -0.44 -2.57	50.92 -0.30 -0.28	38.47 1.18 -1.35	32.53 1.00 -2.03	33.48 0.66 -1.34	33.43 0.87 -0.47
WESTOVER___LESR 323668	34.26 0.65 -4.06	32.70 0.59 -2.77	31.89 0.52 -1.06	30.09 0.39 -1.60	29.55 0.39 -1.01	31.84 0.52 -0.51	31.48 0.50 -1.65	33.21 0.51 -2.95	37.49 0.39 -1.46	40.34 0.42 -1.92	43.47 0.55 -0.51	44.55 0.71 -2.16	47.94 0.76 -2.57	49.96 0.90 -4.09	50.61 0.79 -3.58	54.68 0.69 -7.75	59.03 0.73 -9.39	66.04 0.75 -7.43	51.05 0.62 -6.47	52.32 0.66 -0.72	40.23 0.90 -3.40	35.34 0.74 -5.10	35.48 0.63 -3.38	33.98 0.71 -1.19
WETHRSFD_WT_PWR 323626	32.32 0.59 -2.18	31.21 0.38 -1.49	31.03 0.15 -0.57	28.82 -0.14 -0.86	28.49 -0.20 -0.55	31.08 0.00 -0.27	30.43 0.21 -0.88	31.40 0.06 -1.58	35.85 -0.57 -0.78	38.39 -0.65 -1.03	42.13 -0.55 -0.27	42.68 -0.17 -1.16	45.82 -0.18 -1.38	47.22 0.05 -2.20	48.08 -0.09 -1.92	49.80 -0.60 -4.16	53.37 -0.58 -5.04	61.09 -0.75 -3.99	46.92 -0.53 -3.48	50.72 -0.61 -0.39	38.66 0.90 -1.82	33.00 0.77 -2.74	33.63 0.35 -1.82	33.30 0.58 -0.64
WHAVSTOR_138KV_BK127 55557	42.51 1.21 -11.75	38.65 1.29 -8.01	34.93 1.55 -3.08	34.17 1.43 -4.64	32.54 1.46 -2.94	33.82 1.54 -1.47	35.73 1.64 -4.75	39.93 1.67 -8.50	41.67 1.82 -4.21	45.48 1.94 -5.54	46.08 2.21 -1.47	49.84 1.92 -6.25	54.08 2.05 -7.42	58.93 2.16 -11.80	58.84 2.27 -10.33	71.14 2.54 -22.36	78.95 2.93 -27.11	82.85 3.53 -21.46	65.17 2.51 -18.70	55.56 2.55 -2.07	47.50 1.76 -9.81	45.68 1.45 -14.74	42.89 1.67 -9.76	37.38 1.86 -3.43
WHAVSTOR_138_KV_BK127_REV_LBMP_G 345015	42.51 1.21 -11.75	38.65 1.29 -8.01	34.93 1.55 -3.08	34.17 1.43 -4.64	32.54 1.46 -2.94	33.82 1.54 -1.47	35.73 1.64 -4.75	39.93 1.67 -8.50	41.67 1.82 -4.21	45.48 1.94 -5.54	46.08 2.21 -1.47	49.84 1.92 -6.25	54.08 2.05 -7.42	58.93 2.16 -11.80	58.84 2.27 -10.33	71.14 2.54 -22.36	78.95 2.93 -27.11	82.85 3.53 -21.46	65.17 2.51 -18.70	55.56 2.55 -2.07	47.50 1.76 -9.81	45.68 1.45 -14.74	42.89 1.67 -9.76	37.38 1.86 -3.43
WHITEHAL_115KV_TB1 80871	72.75 3.78 -39.42	59.90 3.67 -26.89	44.21 3.58 -10.33	46.88 3.20 -15.58	41.17 3.18 -9.85	39.31 3.57 -4.93	49.23 3.37 -16.52	66.16 3.48 -32.92	54.42 4.13 -14.65	61.65 4.37 -19.27	60.92 4.96 -13.55	84.40 5.29 -37.42	90.57 5.62 -40.34	112.10 5.85 -61.28	108.56 5.97 -56.35	167.17 5.64 -115.29	186.62 5.67 -132.04	178.65 6.60 -114.20	145.66 5.19 -96.51	81.89 5.91 -25.04	80.99 4.42 -40.64	97.19 3.80 -63.89	80.99 3.75 -45.78	48.52 3.75 -12.68
WHITEPLN_13_KV_LOAD 356215	43.44 1.63 -12.26	39.41 1.70 -8.37	35.49 1.97 -3.21	34.79 1.85 -4.85	33.12 1.91 -3.06	34.34 2.00 -1.53	36.41 2.11 -4.96	40.85 2.20 -8.88	42.46 2.42 -4.40	46.72 2.93 -5.79	47.25 3.31 -1.53	51.33 3.04 -6.60	56.52 3.52 -8.38	61.15 3.60 -12.57	60.92 3.75 -10.93	74.00 4.12 -23.65	81.99 4.74 -28.33	85.42 4.92 -22.65	67.24 3.56 -19.71	56.72 3.62 -2.16	48.62 2.44 -10.24	46.89 2.01 -15.39	43.92 2.27 -10.18	38.11 2.44 -3.58
WM_FLOYD_69_KV_BK2 356380	67.23 2.90 -34.79	54.39 3.11 -21.93	51.91 3.61 -18.00	44.05 3.40 -12.56	42.47 3.46 -10.87	44.16 3.64 -9.72	42.37 3.78 -9.24	43.78 3.75 -10.27	61.99 4.21 -22.14	63.87 4.37 -21.50	71.83 4.71 -24.71	90.25 4.38 -44.19	92.47 4.64 -43.21	128.35 4.63 -78.74	171.74 4.76 -120.74	170.08 4.95 -118.89	221.29 5.48 -166.91	241.15 6.36 -176.94	178.55 4.79 -129.80	172.63 5.45 -116.24	117.06 4.02 -77.10	108.32 3.30 -75.52	70.04 3.75 -34.83	77.48 4.01 -41.38
WOODARD___115KV_TB2 355635	29.40 -0.15 0.00	29.17 -0.18 0.00	30.04 -0.27 0.00	27.78 -0.31 0.00	27.83 -0.31 0.00	30.53 -0.28 0.00	29.07 -0.26 0.00	29.55 -0.21 0.00	35.25 -0.39 0.00	37.66 -0.34 0.00	42.07 -0.34 0.00	41.47 -0.21 0.00	44.43 -0.18 0.00	44.88 -0.09 0.00	46.01 -0.23 0.00	45.96 -0.28 0.00	48.57 -0.34 0.00	57.39 -0.46 0.00	43.52 -0.44 0.00	50.43 -0.51 0.00	35.86 -0.07 0.00	29.41 -0.09 0.00	31.28 -0.19 0.00	31.83 -0.26 0.00
YORK___WARBASSE 23770	43.14 1.30 -12.29	39.23 1.50 -8.39	35.47 1.94 -3.22	34.75 1.80 -4.86	33.07 1.86 -3.07	34.19 1.85 -1.54	36.37 2.05 -4.98	40.69 2.02 -8.91	42.15 2.10 -4.41	46.04 2.24 -5.80	46.44 2.50 -1.53	50.46 2.17 -6.61	55.42 2.41 -8.40	67.14 2.56 -19.60	71.23 2.68 -22.31	92.42 3.14 -43.04	84.07 3.52 -31.64	112.80 4.34 -50.61	88.16 3.03 -41.17	68.52 3.26 -14.32	48.28 2.08 -10.26	46.63 1.71 -15.42	43.76 2.08 -10.21	38.12 2.44 -3.59