

## **COST OF ONE MWH of ELECTRICITY at MINNESOTA HUB SOLD ON MISO DAY AHEAD MARKET**

The Commission required Applicants to provide the daily record of the cost of a MWH of electricity established by MISO's Day-Ahead Market and MISO's Real Time Market, weighted by MWh sold at the Minnesota Hub, from April 2005 to March 2007 (Exemption Order Point 7C). This information is contained in a 675-page spreadsheet showing hourly pricing at the Minnesota Hub from April 1, 2005 through April 7, 2007. Rather than provide the entire 675-page document, Applicants have provided 10 example pages. Applicants will provide electronic copies of the entire spreadsheet upon request.

Location	BeginDate	Hour	LMP	MCC	MLC
MINN.HUB	01-Apr-05	1	19.58	0	-1.17
MINN.HUB	01-Apr-05	2	18.73	0.02	-1.49
MINN.HUB	01-Apr-05	3	18.77	-0.08	-1.7
MINN.HUB	01-Apr-05	4	18.28	-0.36	-1.79
MINN.HUB	01-Apr-05	5	16.76	-1.37	-2.08
MINN.HUB	01-Apr-05	6	19.05	-3.17	-2.23
MINN.HUB	01-Apr-05	7	24.57	-5.87	-2.51
MINN.HUB	01-Apr-05	8	45.13	0	-2.61
MINN.HUB	01-Apr-05	9	44.15	0	-1.42
MINN.HUB	01-Apr-05	10	36.04	0	-0.87
MINN.HUB	01-Apr-05	11	27.64	-0.68	-1.07
MINN.HUB	01-Apr-05	12	29.05	0	-1.38
MINN.HUB	01-Apr-05	13	33.84	0.02	-1.89
MINN.HUB	01-Apr-05	14	36.83	-0.01	-2.09
MINN.HUB	01-Apr-05	15	36.99	0.06	-2.41
MINN.HUB	01-Apr-05	16	20.22	-2.39	-1.67
MINN.HUB	01-Apr-05	17	18.59	-4.56	-1.48
MINN.HUB	01-Apr-05	18	20	-3.08	-1.49
MINN.HUB	01-Apr-05	19	18.56	-6.65	-1.92
MINN.HUB	01-Apr-05	20	47.47	-35.4	-5.42
MINN.HUB	01-Apr-05	21	44.5	-2.52	-1.61
MINN.HUB	01-Apr-05	22	24.58	0	-1.23
MINN.HUB	01-Apr-05	23	28.23	-2.69	-2.17
MINN.HUB	01-Apr-05	24	25.65	0	-1.51
MINN.HUB	02-Apr-05	1	38.03	-3	-3

MINN HUB	02-Apr-05	2	30.87	-2.58	-2.71
MINN.HUB	02-Apr-05	3	34.4	-2.2	-2.89
MINN.HUB	02-Apr-05	4	40.08	-0.43	-3.2
MINN HUB	02-Apr-05	5	27.17	-1.73	-2.66
MINN.HUB	02-Apr-05	6	29.68	-13.29	-4.05
MINN.HUB	02-Apr-05	7	35.31	-10.49	-3.7
MINN HUB	02-Apr-05	8	36.46	-0.33	-3.08
MINN.HUB	02-Apr-05	9	65.08	0.03	-4.64
MINN.HUB	02-Apr-05	10	103.18	-1.78	-7.89
MINN HUB	02-Apr-05	11	73.01	-1.33	-5.25
MINN.HUB	02-Apr-05	12	48.64	0	-3.12
MINN.HUB	02-Apr-05	13	91.87	0	-7.48
MINN HUB	02-Apr-05	14	24.98	0	-1.94
MINN.HUB	02-Apr-05	15	40.19	-5.23	-4.08
MINN.HUB	02-Apr-05	16	23.05	-3.19	-2.6
MINN HUB	02-Apr-05	17	23.88	-21.69	-4.49
MINN.HUB	02-Apr-05	18	17.27	-11.36	-2.6
MINN.HUB	02-Apr-05	19	13.24	-10.14	-2.15
MINN.HUB	02-Apr-05	20	25.49	-2.15	-2.16
MINN.HUB	02-Apr-05	21	42.47	0.01	-2.83
MINN.HUB	02-Apr-05	22	32.46	0	-2.35
MINN.HUB	02-Apr-05	23	38.22	-2.23	-3.64
MINN HUB	02-Apr-05	24	29.47	-16.38	-3.84
MINN.HUB	03-Apr-05	1	27.53	-14.68	-3.66
MINN.HUB	03-Apr-05	2	24.04	-0.43	-2.13
MINN HUB	03-Apr-05	3	29.21	0	-2.32

MINN.HUB	03-Apr-05	4	20.89	0	-1.91
MINN.HUB	03-Apr-05	5	21.97	-0.07	-2.16
MINN.HUB	03-Apr-05	6	24.91	0	-2.38
MINN.HUB	03-Apr-05	7	24.96	0.24	-2.08
MINN.HUB	03-Apr-05	8	23.32	0	-2.26
MINN.HUB	03-Apr-05	9	23.42	0.19	-1.97
MINN.HUB	03-Apr-05	10	23.14	0.14	-1.87
MINN.HUB	03-Apr-05	11	28.55	0.32	-2.15
MINN.HUB	03-Apr-05	12	23.29	0.38	-1.69
MINN.HUB	03-Apr-05	13	14.5	-8.81	-1.98
MINN.HUB	03-Apr-05	14	15.45	-5.6	-1.78
MINN.HUB	03-Apr-05	15	15.17	-4.96	-1.8
MINN.HUB	03-Apr-05	16	17.07	-2.64	-1.78
MINN.HUB	03-Apr-05	17	12.58	-6.15	-1.56
MINN.HUB	03-Apr-05	18	16.23	-2.94	-1.48
MINN.HUB	03-Apr-05	19	16.86	-4.47	-1.7
MINN.HUB	03-Apr-05	20	37.17	-30.6	-5.39
MINN.HUB	03-Apr-05	21	55.79	-24.75	-3.77
MINN.HUB	03-Apr-05	22	18.77	-10.54	-1.62
MINN.HUB	03-Apr-05	23	19.41	0.01	-1.7
MINN.HUB	03-Apr-05	24	18.24	-6.24	-3
MINN.HUB	04-Apr-05	1	10.6	-10.47	-2.24
MINN.HUB	04-Apr-05	2	22.66	0.88	-2.77
MINN.HUB	04-Apr-05	3	45.11	20.13	-3.05
MINN.HUB	04-Apr-05	4	63.49	36.59	-2.82
MINN.HUB	04-Apr-05	5	46.83	17.32	-3.52

MINN.HUB	07-Jun-06	6	20.01	-0.08	-2.01
MINN.HUB	07-Jun-06	7	25.51	0	-1.75
MINN.HUB	07-Jun-06	8	38.65	0.01	-1.16
MINN.HUB	07-Jun-06	9	52.87	-0.76	0.75
MINN.HUB	07-Jun-06	10	64.43	1.22	2.52
MINN.HUB	07-Jun-06	11	66.28	19.53	3.03
MINN.HUB	07-Jun-06	12	49.6	-0.31	3.96
MINN.HUB	07-Jun-06	13	60.67	-2.18	5.25
MINN.HUB	07-Jun-06	14	95.09	14.94	7.49
MINN.HUB	07-Jun-06	15	267.51	120.52	14.73
MINN.HUB	07-Jun-06	16	168.46	91.45	7.01
MINN.HUB	07-Jun-06	17	116.49	50.3	6.11
MINN.HUB	07-Jun-06	18	220.12	105.79	11.23
MINN.HUB	07-Jun-06	19	143.71	71.36	6.76
MINN.HUB	07-Jun-06	20	45.43	1.71	3.68
MINN.HUB	07-Jun-06	21	54.36	5.24	3.64
MINN.HUB	07-Jun-06	22	77.33	21.76	4.44
MINN.HUB	07-Jun-06	23	-8.6	-36.48	1.35
MINN.HUB	07-Jun-06	24	22.3	0	0.04
MINN.HUB	08-Jun-06	1	22.31	0	-0.17
MINN.HUB	08-Jun-06	2	17.92	0	-0.54
MINN.HUB	08-Jun-06	3	16.18	0	-0.9
MINN.HUB	08-Jun-06	4	15.08	0	-1.07
MINN.HUB	08-Jun-06	5	18.98	0	-1.58
MINN.HUB	08-Jun-06	6	18.09	0	-1.49
MINN.HUB	08-Jun-06	7	31.1	0.74	-1.78

MINN.HUB	08-Jun-06	8	48.14	2.71	-1.5
MINN.HUB	08-Jun-06	9	41.25	0.55	-0.34
MINN.HUB	08-Jun-06	10	52.33	3.24	0.33
MINN.HUB	08-Jun-06	11	60.94	-0.01	0.86
MINN.HUB	08-Jun-06	12	62.81	0	1.58
MINN.HUB	08-Jun-06	13	69.76	0	2.08
MINN.HUB	08-Jun-06	14	146.71	0	5.54
MINN.HUB	08-Jun-06	15	55.22	0	1.71
MINN.HUB	08-Jun-06	16	79.3	0	2.4
MINN.HUB	08-Jun-06	17	65.78	0	2.47
MINN.HUB	08-Jun-06	18	102.93	0	3.33
MINN.HUB	08-Jun-06	19	61.43	0	0.68
MINN.HUB	08-Jun-06	20	39.33	0.01	-0.46
MINN.HUB	08-Jun-06	21	54.33	0	-1.64
MINN.HUB	08-Jun-06	22	39.26	0	-1.18
MINN.HUB	08-Jun-06	23	25.38	0	-1.4
MINN.HUB	08-Jun-06	24	18.6	-0.39	-1.84
MINN.HUB	09-Jun-06	1	-103.75	-107.75	-0.4
MINN.HUB	09-Jun-06	2	-34.03	-38.85	-0.49
MINN.HUB	09-Jun-06	3	-16.77	-30.16	-1.55
MINN.HUB	09-Jun-06	4	-55.75	-68.83	-1.07
MINN.HUB	09-Jun-06	5	-19.02	-38.33	-1.33
MINN.HUB	09-Jun-06	6	-54.6	-75.99	-1.37
MINN.HUB	09-Jun-06	7	17.56	-5.97	-2.26
MINN.HUB	09-Jun-06	8	12.53	-20.52	-2.85
MINN.HUB	09-Jun-06	9	17.66	-28.01	-3.25

MINN.HUB	28-Dec-06	24	17.72	0	-0.12
MINN.HUB	29-Dec-06	1	16.36	0	-0.08
MINN.HUB	29-Dec-06	2	17.67	0	-0.44
MINN.HUB	29-Dec-06	3	16.55	0	-0.6
MINN.HUB	29-Dec-06	4	15.5	0	-0.46
MINN.HUB	29-Dec-06	5	16.18	0	-0.42
MINN.HUB	29-Dec-06	6	16.26	0	-0.43
MINN.HUB	29-Dec-06	7	16.96	0.07	-0.61
MINN.HUB	29-Dec-06	8	19.22	0.1	-0.8
MINN.HUB	29-Dec-06	9	19.79	0.18	-0.33
MINN.HUB	29-Dec-06	10	20.69	0.04	-0.17
MINN.HUB	29-Dec-06	11	23.34	0.02	0.02
MINN.HUB	29-Dec-06	12	200.92	137.53	1.29
MINN.HUB	29-Dec-06	13	69.9	38.31	0.52
MINN.HUB	29-Dec-06	14	21.6	1.59	0.2
MINN.HUB	29-Dec-06	15	27.91	8.29	0.19
MINN.HUB	29-Dec-06	16	29.49	9.78	0.11
MINN.HUB	29-Dec-06	17	40.83	34.44	-0.03
MINN.HUB	29-Dec-06	18	119.74	80.34	-0.01
MINN.HUB	29-Dec-06	19	140.12	92.75	1.07
MINN.HUB	29-Dec-06	20	57.29	27.97	0.63
MINN.HUB	29-Dec-06	21	22.61	0.39	0.23
MINN.HUB	29-Dec-06	22	18.13	0.27	0.02
MINN.HUB	29-Dec-06	23	16.4	0	-0.08
MINN.HUB	29-Dec-06	24	21.15	13.16	0.06
MINN.HUB	30-Dec-06	1	14.69	0	-0.44

MINN.HUB	30-Dec-06	2	16.25	-0.04	-0.65
MINN.HUB	30-Dec-06	3	15.02	-0.07	-0.61
MINN.HUB	30-Dec-06	4	14.25	-0.01	-0.6
MINN.HUB	30-Dec-06	5	15.55	-0.02	-0.7
MINN.HUB	30-Dec-06	6	15.72	-0.31	-0.75
MINN.HUB	30-Dec-06	7	17.51	0.21	-0.76
MINN.HUB	30-Dec-06	8	16.57	0.03	-0.55
MINN.HUB	30-Dec-06	9	17.43	0.1	-0.43
MINN.HUB	30-Dec-06	10	19.08	0.33	-0.38
MINN.HUB	30-Dec-06	11	19.78	0.04	-0.23
MINN.HUB	30-Dec-06	12	20.5	0.03	0.01
MINN.HUB	30-Dec-06	13	20.29	0	0.02
MINN.HUB	30-Dec-06	14	19.97	0	-0.02
MINN.HUB	30-Dec-06	15	18.96	0	-0.07
MINN.HUB	30-Dec-06	16	18.25	-0.3	-0.17
MINN.HUB	30-Dec-06	17	21.32	-0.01	-0.16
MINN.HUB	30-Dec-06	18	40.33	5.14	0.28
MINN.HUB	30-Dec-06	19	143.84	84.1	1.62
MINN.HUB	30-Dec-06	20	71.24	36.24	1.02
MINN.HUB	30-Dec-06	21	22.67	0	0.52
MINN.HUB	30-Dec-06	22	20.84	0	0.31
MINN.HUB	30-Dec-06	23	18.11	0	-0.11
MINN.HUB	30-Dec-06	24	16.34	0	-0.51
MINN.HUB	31-Dec-06	1	16.3	0	-0.67
MINN.HUB	31-Dec-06	2	13.33	0	-0.48
MINN.HUB	31-Dec-06	3	10.85	0	-0.4

MINN.HUB	31-Dec-06	4	12.83	0	-0.54
MINN.HUB	31-Dec-06	5	13.29	0	-0.68
MINN.HUB	31-Dec-06	6	12.27	0.09	-0.63
MINN.HUB	31-Dec-06	7	16.68	0.19	-0.89
MINN.HUB	31-Dec-06	8	16.99	0.09	-0.78
MINN.HUB	31-Dec-06	9	16.49	0	-0.6
MINN.HUB	31-Dec-06	10	17.23	0.06	-0.66
MINN.HUB	31-Dec-06	11	18.07	0.02	-0.57
MINN.HUB	31-Dec-06	12	22.33	-0.12	-0.56
MINN.HUB	31-Dec-06	13	20.01	0.02	-0.45
MINN.HUB	31-Dec-06	14	20	0	-0.44
MINN.HUB	31-Dec-06	15	20.16	0.1	-0.46
MINN.HUB	31-Dec-06	16	20.27	0.06	-0.55
MINN.HUB	31-Dec-06	17	28.95	0.13	-0.9
MINN.HUB	31-Dec-06	18	41.34	0.36	-1.28
MINN.HUB	31-Dec-06	19	34.2	0.29	-0.28
MINN.HUB	31-Dec-06	20	22.62	0	-0.1
MINN.HUB	31-Dec-06	21	20.42	0	-0.21
MINN.HUB	31-Dec-06	22	17.83	0	-0.33
MINN.HUB	31-Dec-06	23	16.96	0	-0.48
MINN.HUB	31-Dec-06	24	13.62	0	-0.61
MINN.HUB	01-Jan-07	1	15.6	0	-0.78
MINN.HUB	01-Jan-07	2	16.28	0.02	-0.61
MINN.HUB	01-Jan-07	3	15.68	0.1	-0.57
MINN.HUB	01-Jan-07	4	13.1	0.11	-0.48
MINN.HUB	01-Jan-07	5	14.18	0.07	-0.6

MINN HUB	03-Jan-07	10	25.88	0	-0.71
MINN.HUB	03-Jan-07	11	26.96	0	-0.91
MINN.HUB	03-Jan-07	12	23.16	0	-0.79
MINN HUB	03-Jan-07	13	23.87	0	-0.51
MINN.HUB	03-Jan-07	14	21.64	0	-0.61
MINN.HUB	03-Jan-07	15	20.12	0	-0.58
MINN HUB	03-Jan-07	16	19.48	0	-0.63
MINN.HUB	03-Jan-07	17	19.28	0	-0.71
MINN.HUB	03-Jan-07	18	25.75	0	-0.89
MINN.HUB	03-Jan-07	19	35	0	0.26
MINN.HUB	03-Jan-07	20	28.15	0	0.47
MINN.HUB	03-Jan-07	21	29.82	0	0.3
MINN HUB	03-Jan-07	22	30.61	0	0.03
MINN.HUB	03-Jan-07	23	21.64	0	-0.32
MINN.HUB	03-Jan-07	24	18.5	0	-0.45
MINN HUB	04-Jan-07	1	17.62	0	-1.08
MINN.HUB	04-Jan-07	2	17.44	0	-1.17
MINN.HUB	04-Jan-07	3	16.17	0	-1.22
MINN.HUB	04-Jan-07	4	16.07	0	-1.07
MINN.HUB	04-Jan-07	5	16.73	0	-1.11
MINN.HUB	04-Jan-07	6	18.68	0	-1.32
MINN.HUB	04-Jan-07	7	20.06	-0.12	-1.21
MINN HUB	04-Jan-07	8	36.87	0.96	-2.45
MINN.HUB	04-Jan-07	9	22.53	0.05	-0.68
MINN.HUB	04-Jan-07	10	22.2	-0.01	-0.81
MINN HUB	04-Jan-07	11	24.96	-0.02	-1.07

MINN.HUB	04-Jan-07	12	25.31	-0.01	-0.89
MINN.HUB	04-Jan-07	13	24.97	0	-0.73
MINN.HUB	04-Jan-07	14	23.19	0	-0.77
MINN.HUB	04-Jan-07	15	25.24	0	-0.76
MINN.HUB	04-Jan-07	16	21.82	0	-0.75
MINN.HUB	04-Jan-07	17	26.04	0	-0.81
MINN.HUB	04-Jan-07	18	59.23	1.33	-1.25
MINN.HUB	04-Jan-07	19	128.22	28.1	2.46
MINN.HUB	04-Jan-07	20	65.2	27.2	1.14
MINN.HUB	04-Jan-07	21	35.27	3.88	0.65
MINN.HUB	04-Jan-07	22	25.56	0	0.03
MINN.HUB	04-Jan-07	23	19.44	0	-0.25
MINN.HUB	04-Jan-07	24	18.14	0	-0.39
MINN.HUB	05-Jan-07	1	15.89	0	-0.75
MINN.HUB	05-Jan-07	2	15.08	0	-0.74
MINN.HUB	05-Jan-07	3	16.15	0	-0.78
MINN.HUB	05-Jan-07	4	16.09	0	-0.69
MINN.HUB	05-Jan-07	5	17.15	0	-0.79
MINN.HUB	05-Jan-07	6	17.28	0	-0.87
MINN.HUB	05-Jan-07	7	21.82	0.1	-0.86
MINN.HUB	05-Jan-07	8	46.35	1.24	-2.02
MINN.HUB	05-Jan-07	9	29.86	0.4	0.08
MINN.HUB	05-Jan-07	10	39.49	0	0.33
MINN.HUB	05-Jan-07	11	50.52	0	0.03
MINN.HUB	05-Jan-07	12	30.64	0	0.1
MINN.HUB	05-Jan-07	13	34.19	0	-0.09