APPENDIX F
POWERWORLD® DETAILED RESULTS

APPENDIX F.1

Appendix F.1 provides additional results for the original case with all generators bidding their marginal costs with no inclusion of their fixed costs.

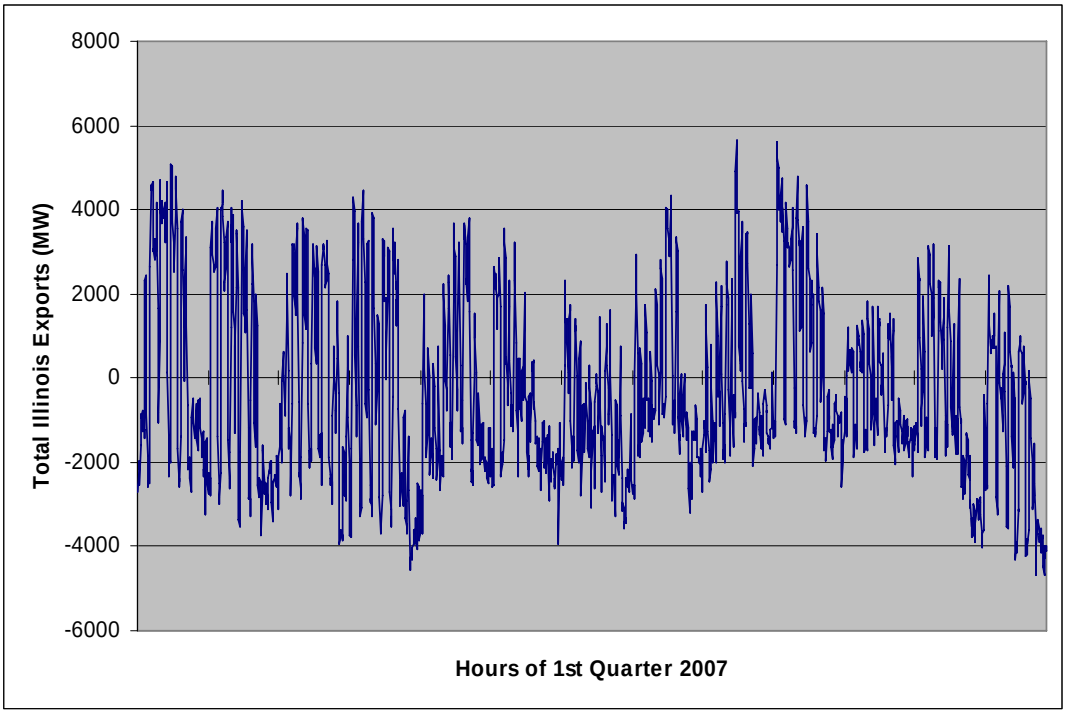

Figure F.1-1 Hourly Power Exports for Illinois during the 1st Quarter 2007

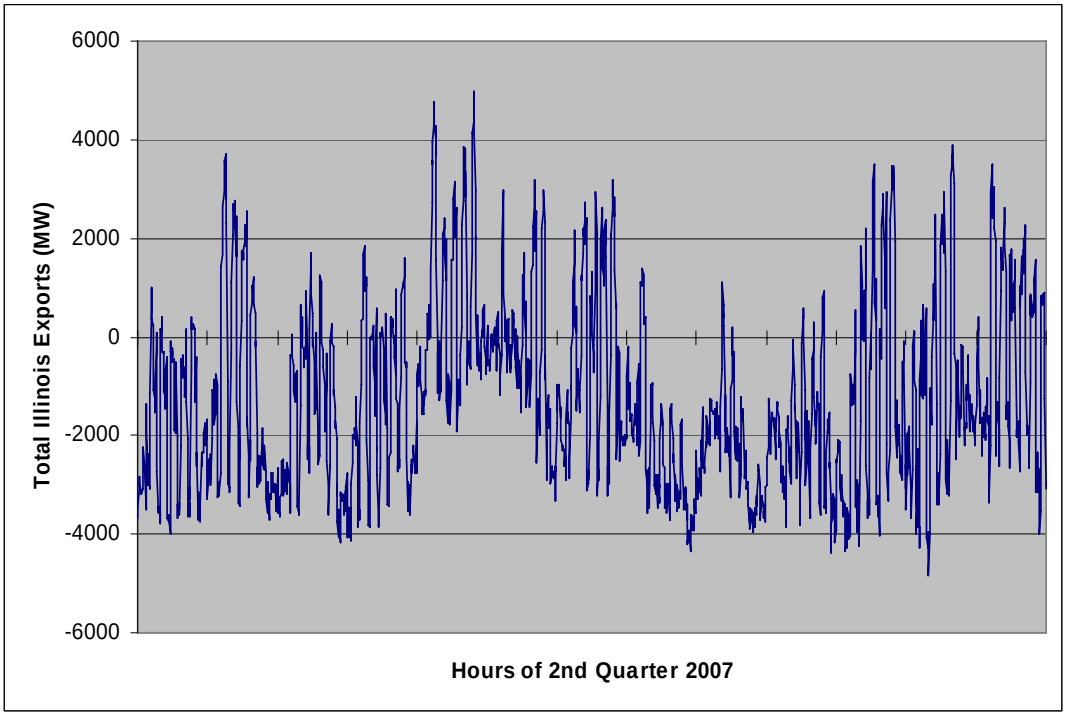

Figure F.1-2 Hourly Power Exports for Illinois during the 2nd Quarter 2007

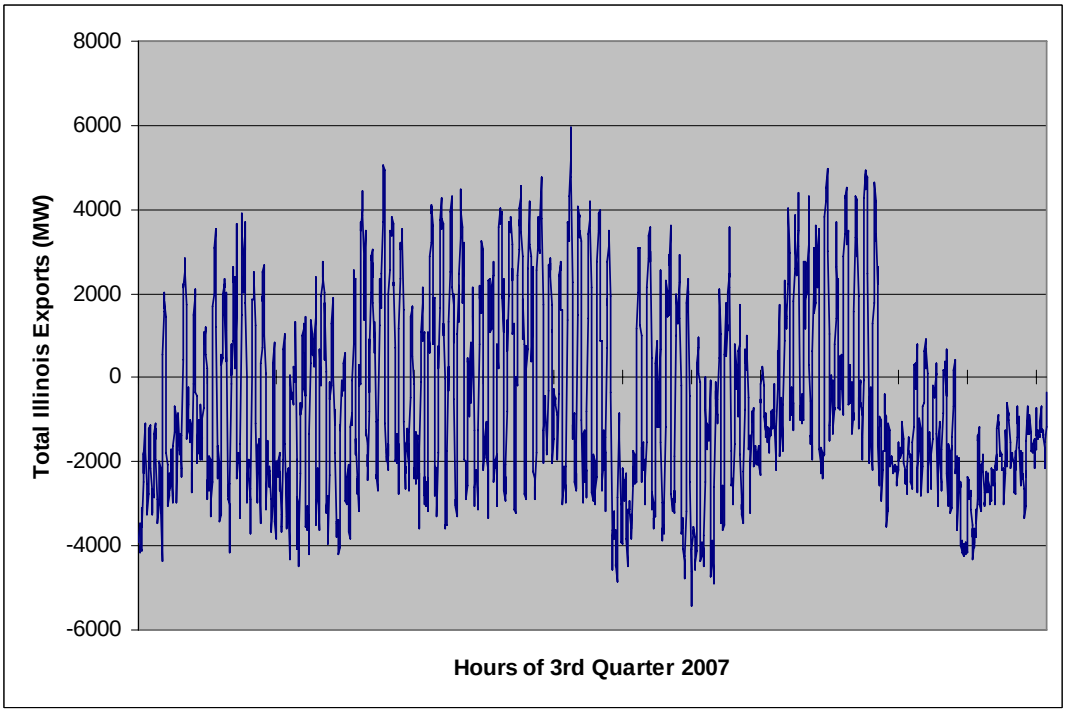

Figure F.1-3 Hourly Power Exports for Illinois during the 3rd Quarter 2007

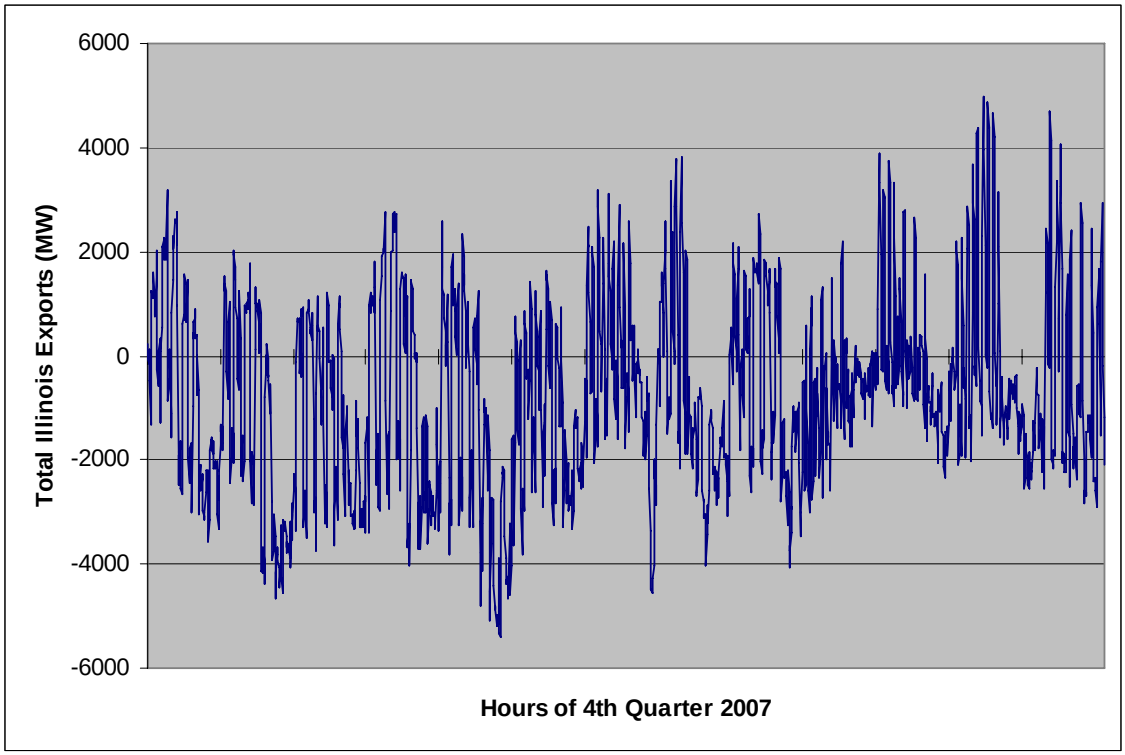

Figure F.1-4 Hourly Power Exports for Illinois during the 4th Quarter 2007

Table F.1-1 Congested Transmission Lines 2007

Area	From Bus	To Bus	Cir-cuit	Contingency Name	Hours Binding	Avg MC	Max MC
WI	ARP 138	ARP 345	1	WIS39244ARP345-39785ROCKYRNC1	7580	21.64	129.65
Ameren-MO	ORAN	STODDARD	1	AMRNMTL51	5705	54.56	383.3
EEI	JOPPA S	JOPTAPY	3	EEIDOE33392JOPPAS-33395JOPTAPXC2	4980	1.74	16.28
IP-MEC	GALESBRG	GALESBR5	2	345-L15502_B-R	2708	10.25	33.47
Ameren-MO	FRED TAP	FREDTOWN	1	AMRNMTL73	2393	19.05	167.75
WI	OK CRK9	OC CRK6	1	WIS38857OCCRK8-39367OKCRKC1	2374	1.04	12.87
WI	EDG 345	CEDRSAUK	1	WIS38870GRANVL2-39433PTBCH1C1	1985	2.47	5.58
TN (TVA)	8JVILLE	8CUMBERL	1	TVA184258CUMBERL-184308DAVIDSOC1	1984	9.24	36.29
ComEd	MAREN;RT	P VAL; R	1	345-L15616-R	1866	9.65	119.49
WI	BAIN 5	PLS PR4	2	WIS38850PLSPR3-38851PLSPR4C1	1807	4.97	45.85
TN (TVA)	8CUMBERL	8DAVIDSO	1	TVA184228JVILLE-184258CUMBERLC1	1175	1.93	21.58
WI	PAD 345	PAD 138	1	WIS39058PAD345-39119ROE345C1	903	14.78	61.82
WI	DEAD RVR	DR NEU1	1	WIS39917DEADRVR-39898DRNEU1AC1	896	0.51	2.8
IN	08KOK HP	08KO IN5	1	AEP2266505GRNTWN-2266705JEFRSOC1	880	80.61	413.34
Ameren	ALBION	CROSSVL	1	IP98	650	9.63	95.02
ComEd	MAZON; R	OGLES; T	1	345-L15502_B-R	633	16.72	79.55
MO	MARIES	5MARIES	1	AMRNVSS17	629	67.84	180.62
Ameren-MO	CEE TAP	CENTRAL	1	Basecase	611	12.25	19.14
Ameren-MO	CEE TAP	CENTRAL	1	AMRNMTL55	510	10.65	14.98
IN	08WEBSTE	08NEWLON	1	AEP2266505GRNTWN-2266705JEFRSOC1	477	3.74	64.39
ComEd	FISK ; R	FISK STR	19	TR81_TAYLR_R-C	430	12.5	159.36

Table F.1-1 Congested Transmission Lines 2007

Area	From Bus	To Bus	Cir-cuit	Contingency Name	Hours Binding	Avg MC	Max MC
IA (MEC)	DAVNPRT3	WALCOTT3	1	MEC64402LOUISA3-64403EMOLIN3C1	361	1.69	3.67
CILCO	HOLLAND	MASON	1	CIL-6	349	16.66	92.19
Ameren-CWLP	AUBURN N	CHATHAM	1	IP109	347	4.9	43.16
ComEd	HILLC;6B	WILL ;BT	1	Basecase	332	3.76	9.36
IP-CILCO	1346A TP	KICKAPOO	1	345-L0304_R-S	289	2.87	20.47
ComEd	FISK ; B	FISK STR	19	TR82_TAYLR_B-C	258	8.39	18.86
ComEd	SLINE;5S	WASHI; R	1	345-L17723_B-C	232	7.48	141.32
IP-MEC	GALESBRG	GALESBR5	2	L0304-A	231	5.02	19.97
ComEd	LASCO; B	MAZON; B	1	345-L1223_R-S	218	37.42	104.26
Ameren	HAMLTNAM	HAMLTNAM	1	AMRNMTL32	198	5.19	11.97
ComEd	CLYBO; B	CROSB; B	1	138-L4018_R-C	184	0.53	8.89
CILCO	RS WALL	RSW EAST	1	Basecase	184	197.49	1000
CILCO	HOLLAND	MASON	1	345-L0304_R-S	180	14.29	139.47
MI	05BENTON	05COOK	1	AEP2265405COOK-2853818PALISAC1	179	8.48	14.76
ComEd	ELECT;3R	ELECT;3M	1	TR84_ELECT_R-N	177	5.36	35.99
ComEd	CLYBO; B	CROSB; B	1	345-L4621_B-N	167	1.73	35.92
SIPC-BREC	14MORGAN	2GALTN_S	1	IP98	167	24.73	113.49
IP-MEC	GALESBRG	GALESBR5	2	345-L0404-R	162	9.76	22.88
ComEd	BARTL;BT	SPAUL; B	1	345-L14402_B-N	157	8.17	17.82
IP	SPRTA TP	ARCH TAP	1	IP96	156	11.64	46.63
ComEd	ELMHU;3I	F PAR; B	1	TR81_ELMHU_R-N	156	4.44	103.21
ComEd	JEFFE; B	KINGS; B	1	138-L1110_B-C	145	6.72	121.8
ComEd	DAVIS; B	DAVIS;3M	1	345-L17704_R-S	145	72.36	511.77
Ameren-MO	MARBHD N	PALMYRA	1	AMRNMTL58	137	5.91	15.55
WI	EDG 345	CEDRSAUK	1	WIS38898PTBCH2-39433PTBCH1C1	132	2.64	5.44
IP	MT VRNON	ASHLEY	1	IP96	132	49.24	166.79
ComEd	MAZON; R	OGLES; T	1	345-L2101-S	129	20.54	61.22
ComEd	CLYBO; B	DIVER; B	1	138-L4018_R-C	129	0.25	0.35
ComEd	SLINE;2S	WASHI; B	1	138-L0708_B-C	123	2.4	29.3
ComEd	MAZON; R	OGLES; T	1	IP108	123	22.33	62.23
Ameren	HAMLTNAM	KH2 XFMR	1	AMRNMTL32	118	18.29	29.93
Ameren	E.QUINCY	S.QUINCY	1	AMRNVSS112	106	4.34	11.27
Ameren	KINMUNDY	LOUISVL	1	IP98	105	7.66	20.23
IP-ComEd	PWR JCTB	POWER;	1	CIL-6A	97	36.76	94.55
ComEd	RIDGE; B	RIDGE;BS	1	138-L5118_B-S	95	9.85	210.56
ComEd	DIXON; R	NELSO;RT	1	138-L15507_B-R	92	80.81	300.08
Ameren-AEP	05BREED	CASEY	1	AEP2266705JEFRSO-2267105ROCKPTC1	89	0.91	2.68
ComEd	HARBO;8S	UNIVE; B	1	345-L17723_B-C	89	1.68	14.15
IA	HAZLTON5	HAZLTON3	1	ALTW34020HAZLS5-34018HAZLTON3C2	86	43.8	71.76
WI	OC CRK8	OK CRK	1	WIS39367OKCRK-39369OKCRK9C1	84	1.1	5.25
Ameren	RNTOUL J	SIDNYCPS	1	IP45	83	5.99	14.71
IN	07RAMSEY	07RAMSY5	2	CIN2518107RAMSY5-2538808SPEEDC1	81	557.74	1000

Table F.1-1 Congested Transmission Lines 2007

Area	From Bus	To Bus	Cir-cuit	Contingency Name	Hours Binding	Avg MC	Max MC
SIPC-BREC	14MORGAN	2GALTN_S	1	AMRNVSS76	76	8.91	42.41
ComEd	DAVIS;3M	DAVIS; B	1	345-L17704_R-S	74	65.09	352.35
CWLP	EASTDALE	EASTDALE	1	CWLPDALLMAN-DALLMANC1	70	3.57	6.87
WI	EDG 138	EDG 345	1	WIS39215EDG138-39214EDG345C2	67	223.54	372.49
Ameren	ROXFORD	SIOUX	1	Basecase	67	2.17	4.78
ComEd	Y450 ; R	CONGR; R	1	Basecase	63	1.37	17.32
Ameren	ALBION	CROSSVL	1	IP96	60	21.53	78.89
ComEd	HANOV; B	SPAUL; B	1	345-L14402_B-N	59	2.82	14.17
IP-Ameren	LANSVILL	LANSVILL	1	CWLPILLOPTP-INTERSTAC1	59	22.48	43.46
ComEd	CROSB; R	ROCKW; R	1	138-L6721_B-C	58	0.46	1.5
ComEd	ELECT;3M	ELECT;3R	1	TR84_ELECT_R-N	57	4.74	22.74
ComEd	TOLLW; B	TOLLW;3M	1	138-L7910_B-R	56	8.42	26.75
IP	SPRTA TP	ARCH TAP	1	IP30	55	8.84	25.04
SIPC	5MRN_PLN	5RNSHW_S	1	TVA184018SHAWNEE-184068MARSHALC1	50	8.82	28.31
OH	08BUFTN1	08BUFTN1	1	CIN2496206PIERC2-2602908FOSTERC1	47	98.03	181.51
ComEd	E FRA; B	GOODI;3B	1	Basecase	46	7.33	24.82
ComEd	ELWOO; R	GOODI;1R	1	345-L1223_R-S	45	6.97	28.56
ComEd	HILLC;6B	WILL ;BT	1	138-L0907_B-S	43	6.64	9.63
ComEd	CROSB; R	DIVER; R	1	138-L4013_B-C	43	0.08	0.17
ComEd	MAZON; R	OGLES; T	1	CIL-6A	42	13.4	34.13
ComEd	D799 ;6B	RIDGE; B	1	138-L1321_G-C	42	40.14	176.92
ComEd	CORDO; B	NELSO; B	1	345-L0404-R	40	1.78	14.28
ComEd	DEVON;3R	ROSEH;RT	1	138-L11416_R-C	39	35.93	329.23
IP-AEP	05EUGENE	BUNSONVL	1	AMRNVSS1	36	1.09	3.08
ComEd	WAYNE; B	WAYNE;1M	1	345-L14402_B-N	35	8.14	19.28
Ameren-IP	MAZON CY	1346A TP	1	CIL-6	33	8.94	32.63
IN	08GALAGH	08GALAGH	1	AEP2266705JEFRSO-2267105ROCKPTC1	33	0.58	1.34
ComEd	DIXON; B	NELSO; B	1	138-L15508_R-R	33	101.3	295.12
ComEd	MAZON; R	OGLES; T	1	345-L0302_B-S	32	10.88	39.5
SIPC-BREC	14MORGAN	2GALTN_S	1	SIPC333515MRN_PLN-333525RNSHW_SC1	31	40.94	83.52
ComEd	RIDGE; B	RIDGE;BS	1	138-L3705_B-C	31	2.16	43.42
ComEd	NELSO;RT	NELSO; R	1	138-L15507_B-R	31	7.68	26.98
IP-CILCO	1346A TP	KICKAPOO	1	CIL-6	31	17.41	49.4
ComEd	ELECT; B	ELECT;1M	1	TR82_ELECT_B-N	30	3.36	8.38
ComEd	UNIVE; B	WASHI; B	1	138-L13701_R-C	30	0.29	0.33
Ameren	COFFEEN	PANA	1	AMRNVSS36	29	0.9	2.19
ComEd	F PAR;5S	NATOM; B	1	138-L19209_B-C	27	0.36	0.78
ComEd	Y450 ; R	CRAWF;YS	1	Basecase	27	4.87	41.58
ComEd	Y450 ; R	CONGR; R	1	138-L6721_B-C	27	17.82	196.85
CWLP	WESTCHES	WESTCHES	1	CWLPPALOMINO-PALOMINOC1	27	4.59	9.29
ComEd	F PAR;0S	NATOM; R	1	Basecase	25	0.3	1.91

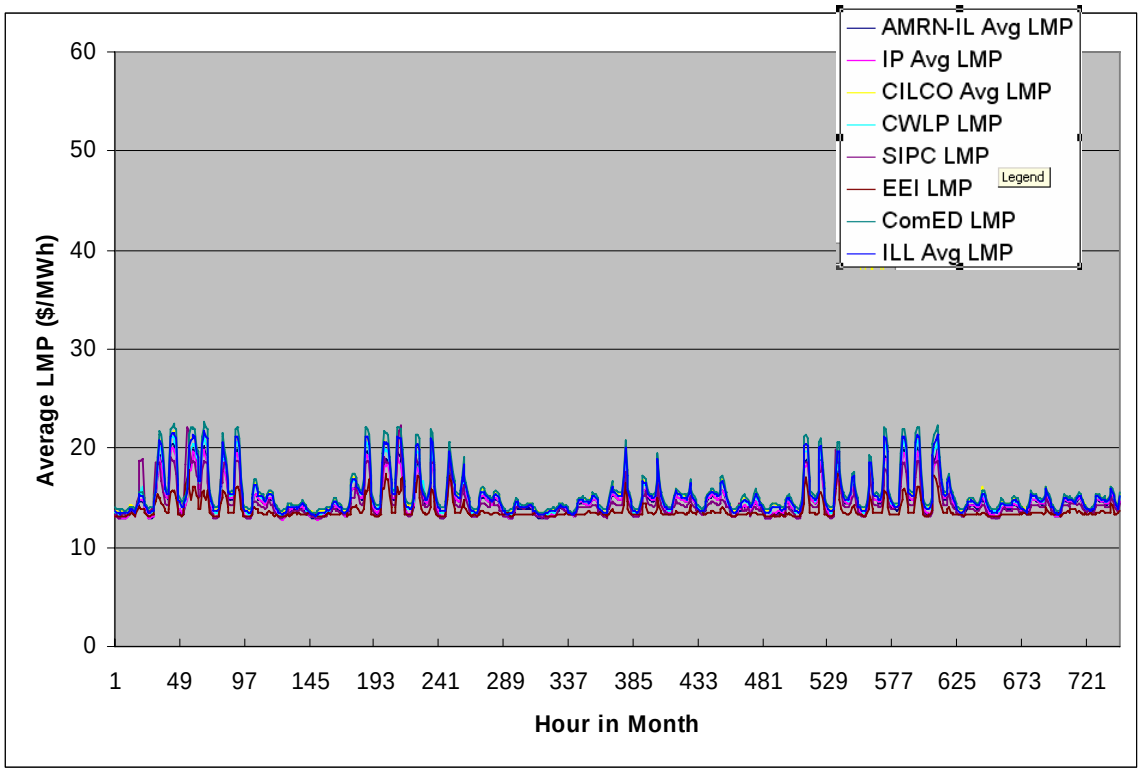

Figure F.1-5 Average LMPs for January 2007

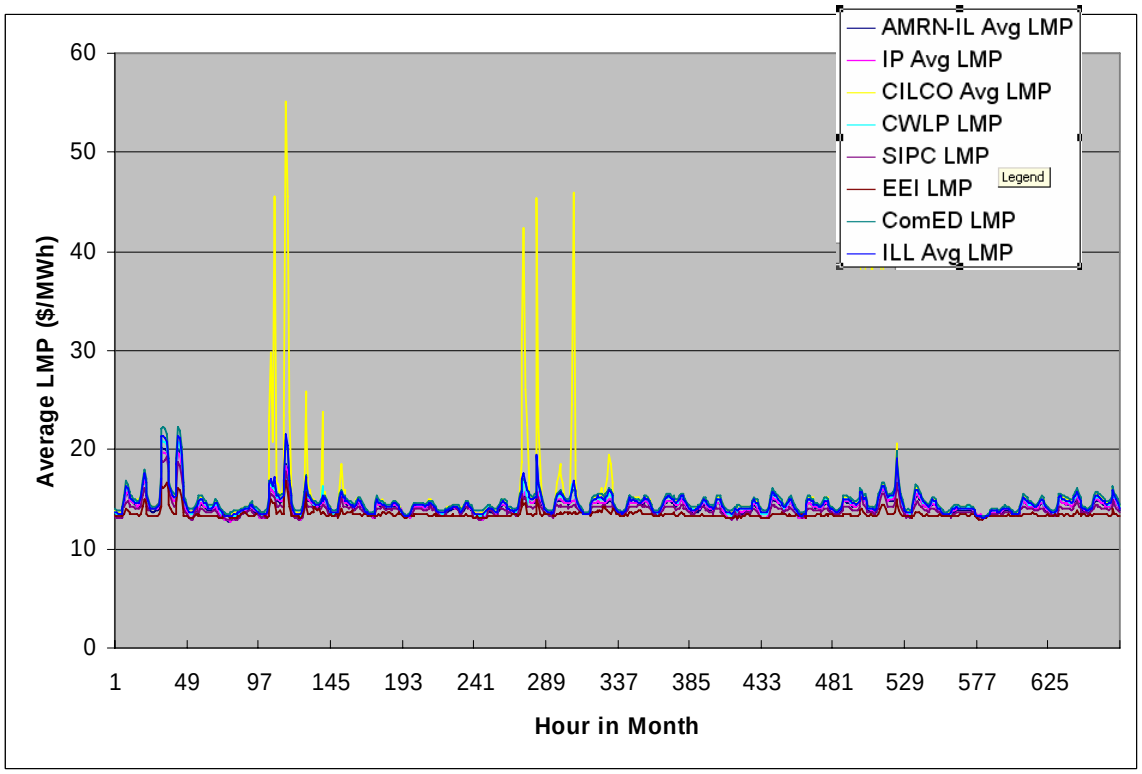

Figure F.1-6 Average LMPs for February 2007

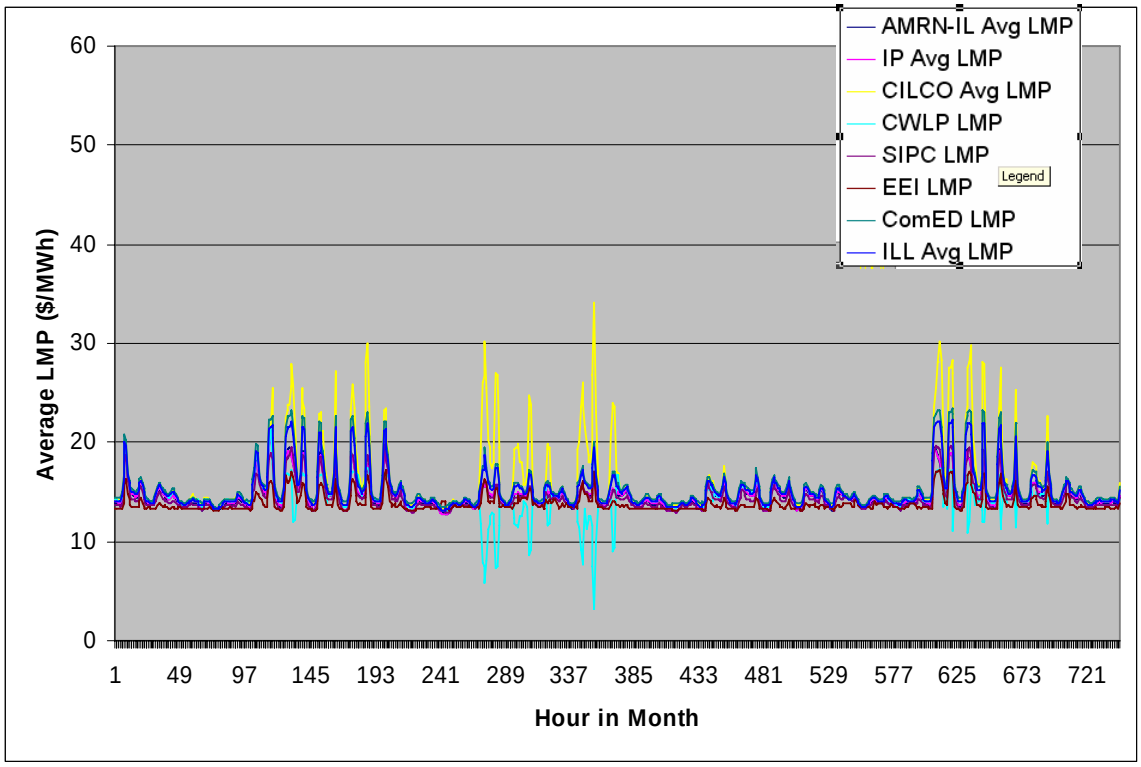

Figure F.1-7 Average LMPs for March 2007

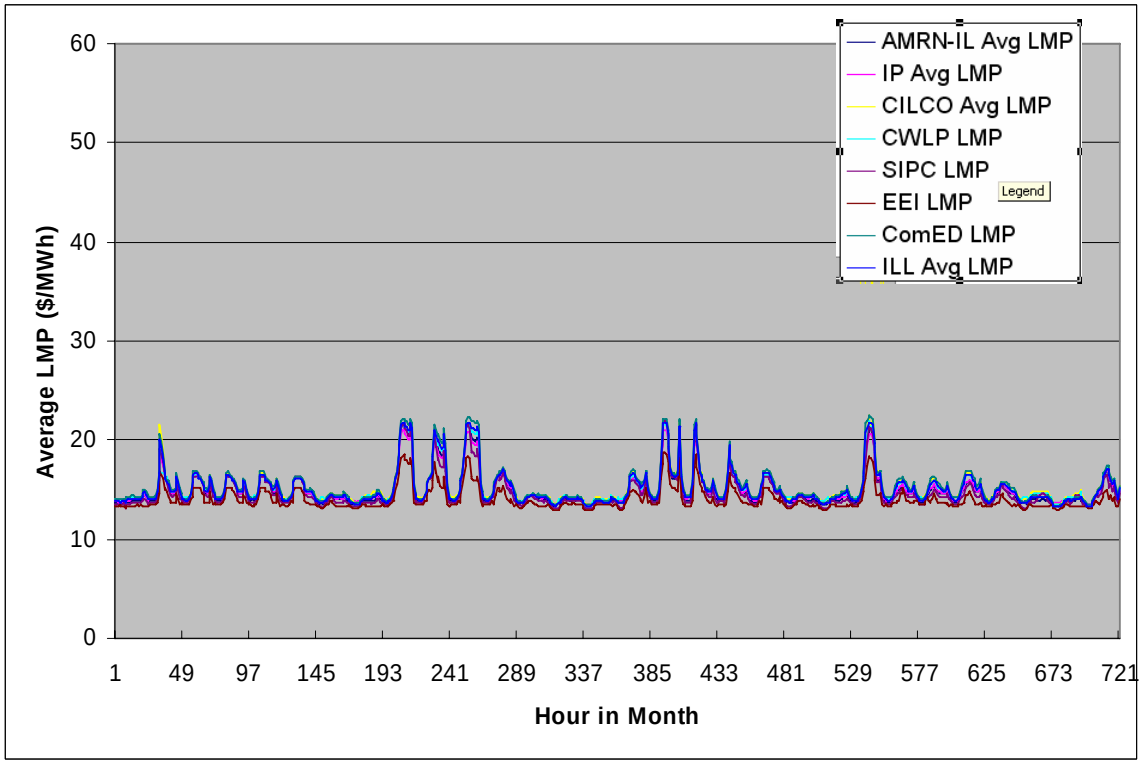

Figure F.1-8 Average LMPs for April 2007

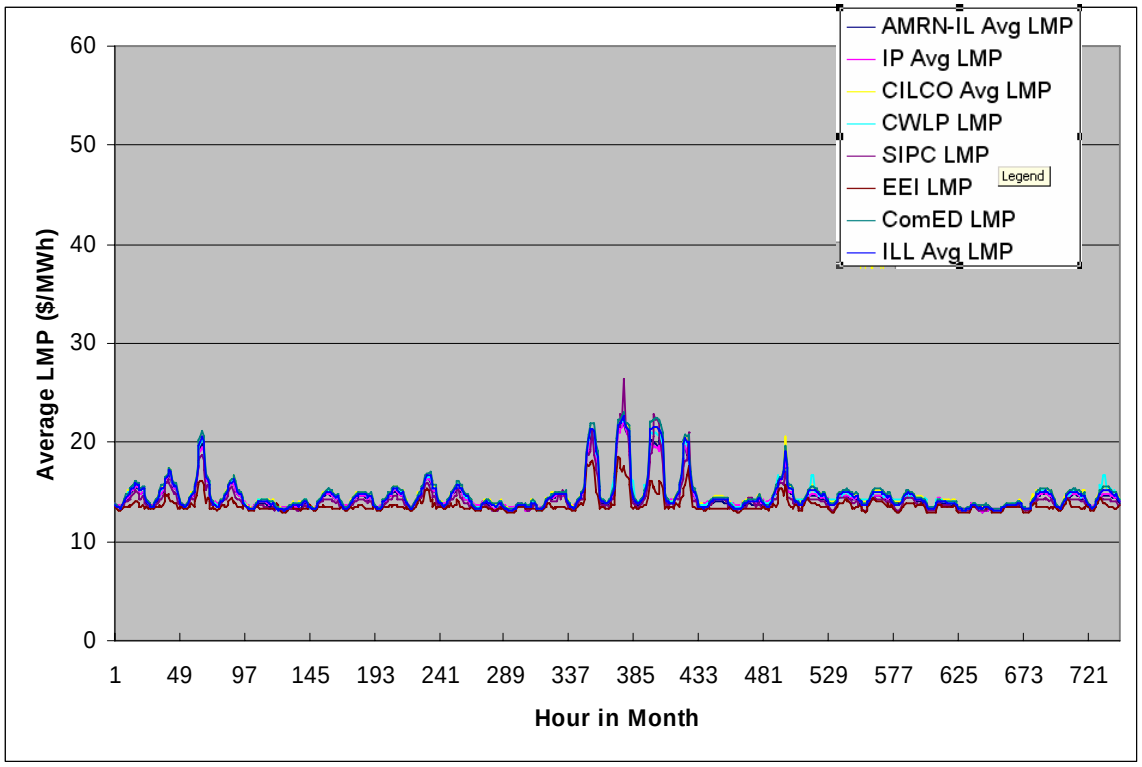

Figure F.1-9 Average LMPs for May 2007

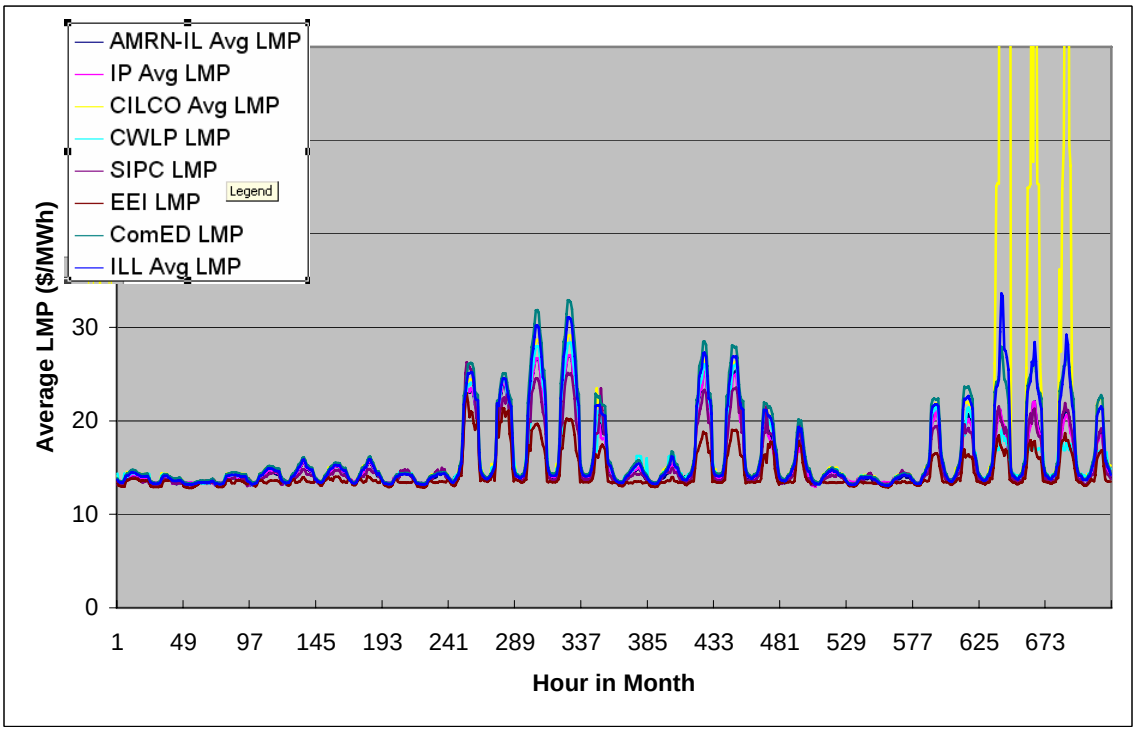

Figure F.1-10 Average LMPs for June 2007

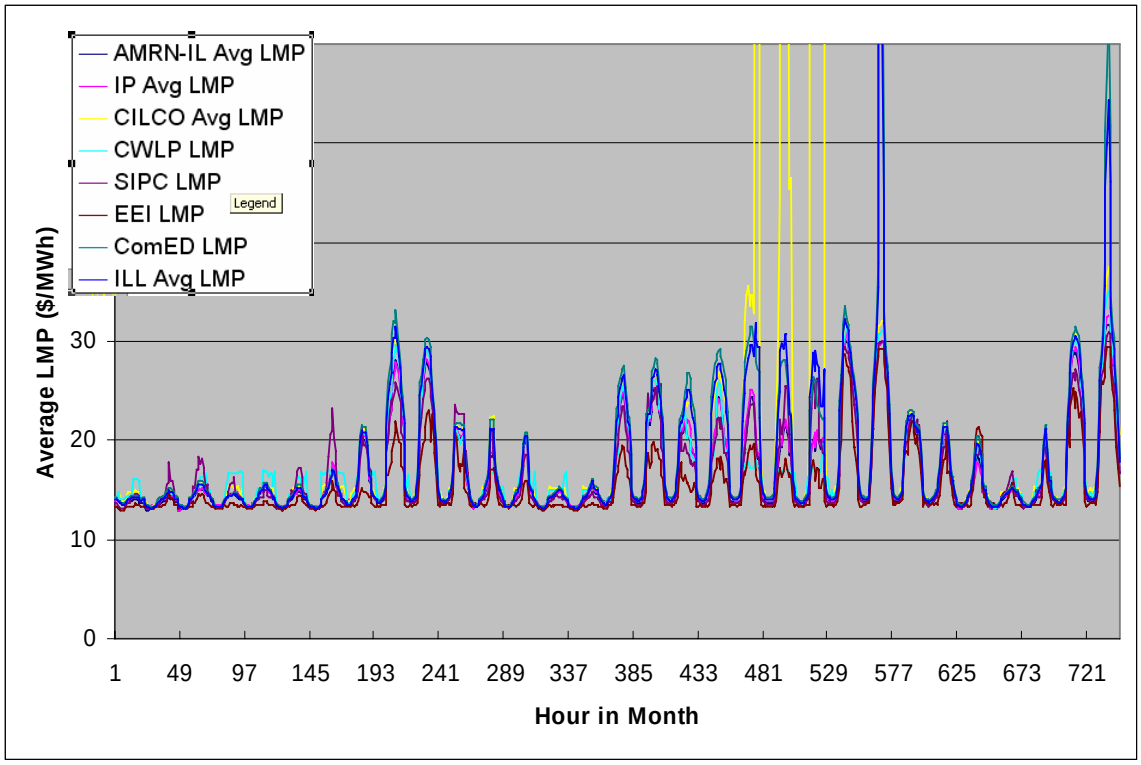

Figure F.1-11 Average LMPs for July 2007

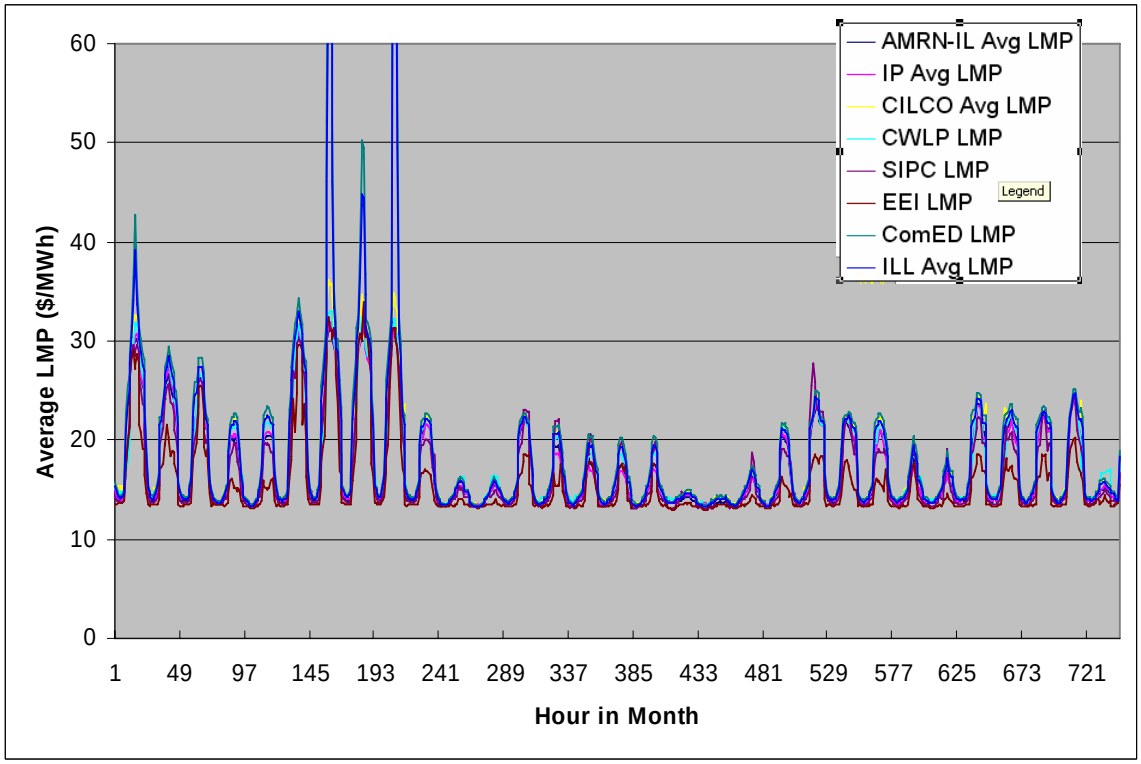

Figure F.1-12 Average LMPs for August 2007

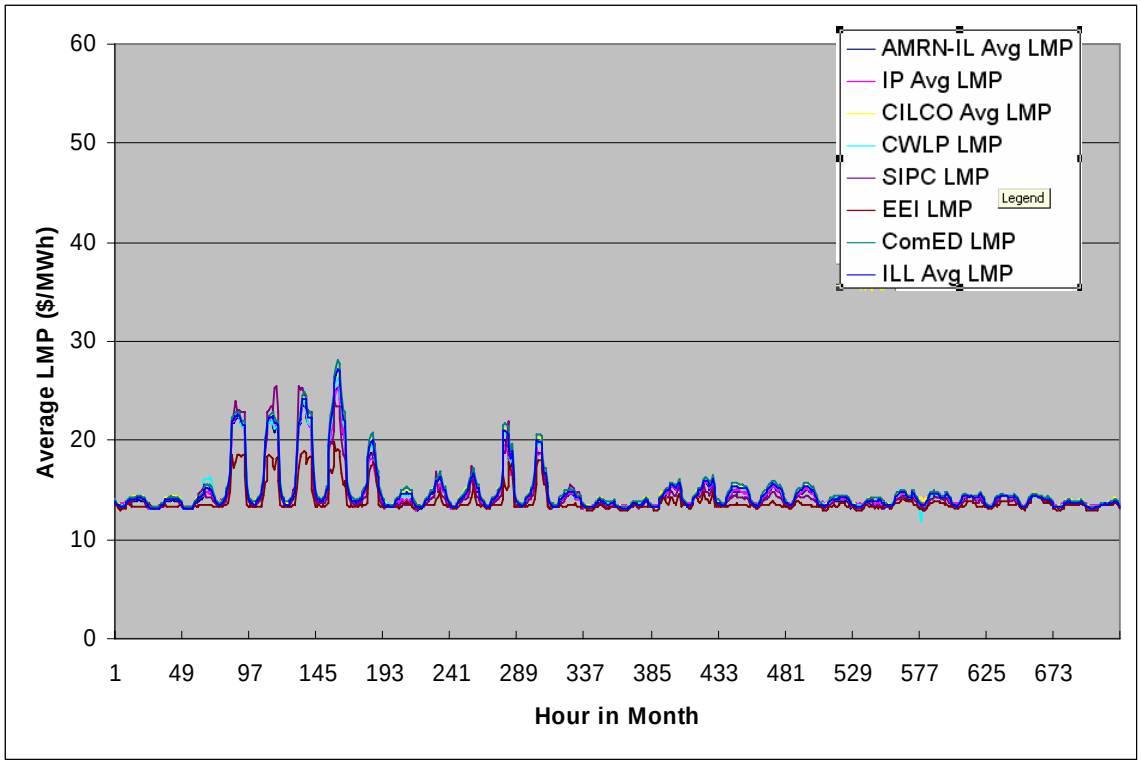

Figure F.1-13 Average LMPs for September 2007

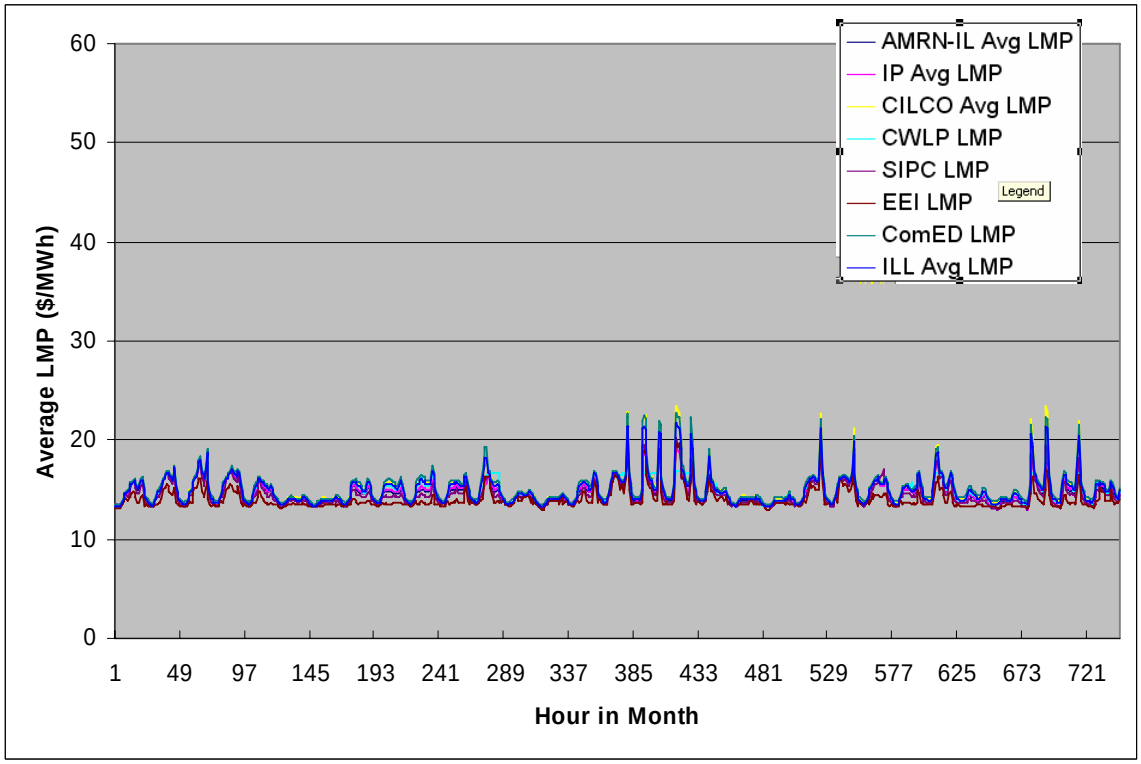

Figure F.1-14 Average LMPs for October 2007

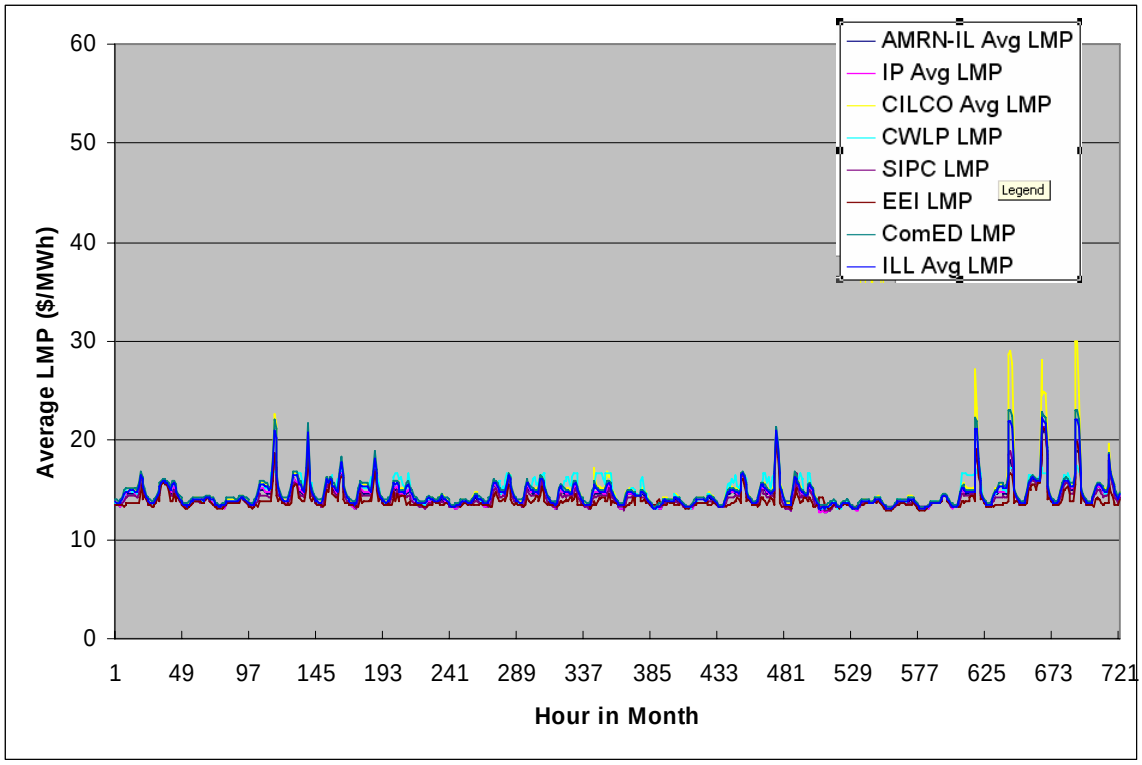

Figure F.1-15 Average LMPs for November 2007

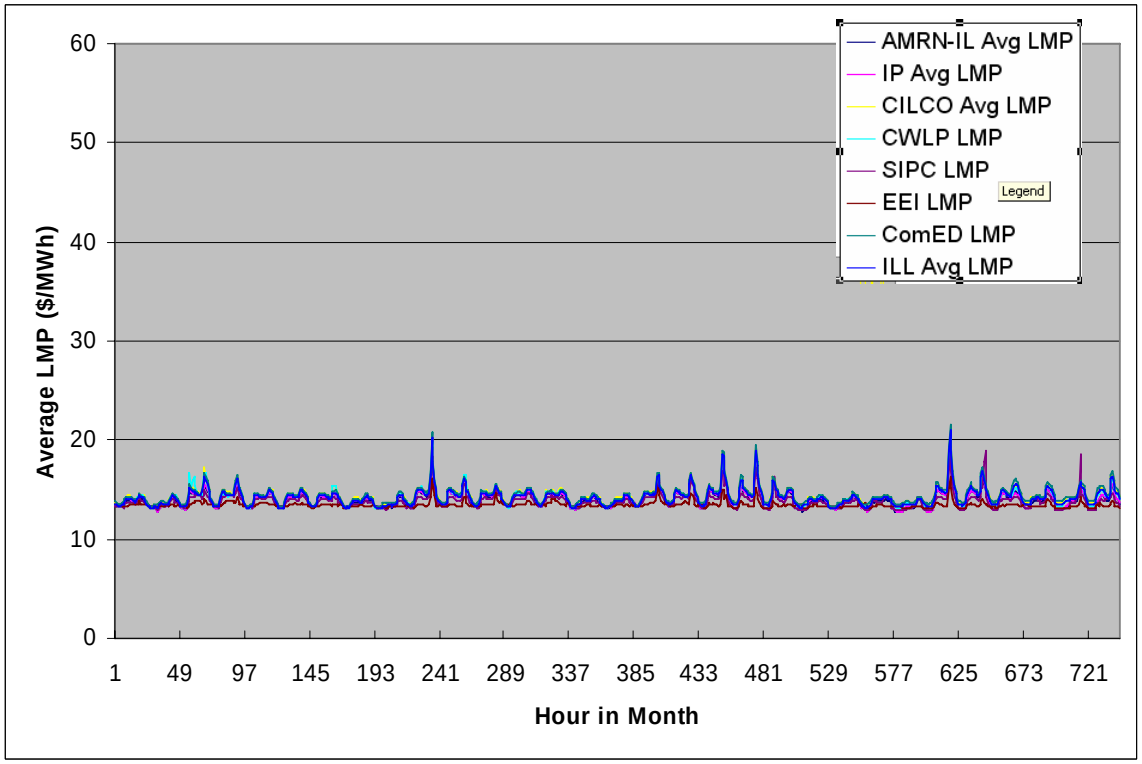

Figure F.1-16 Average LMPs for December 2007

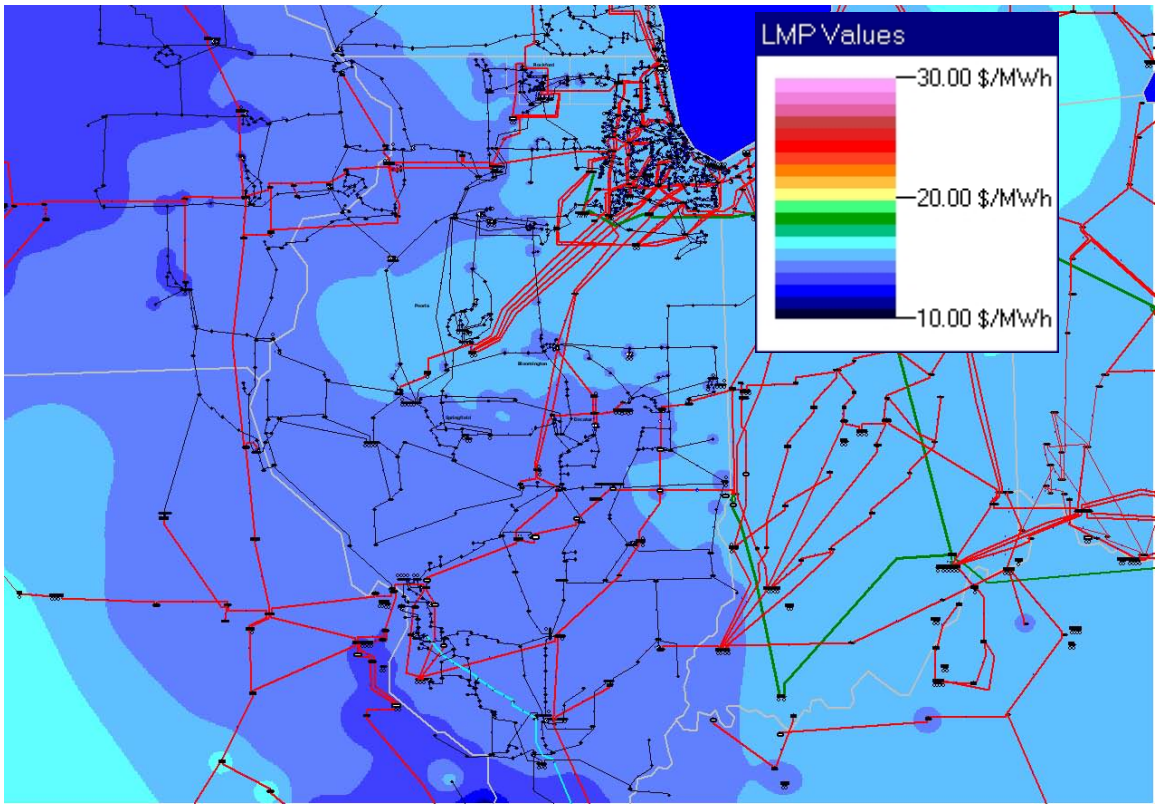

Figure F.1-17 Average LMPs for January to March 2007

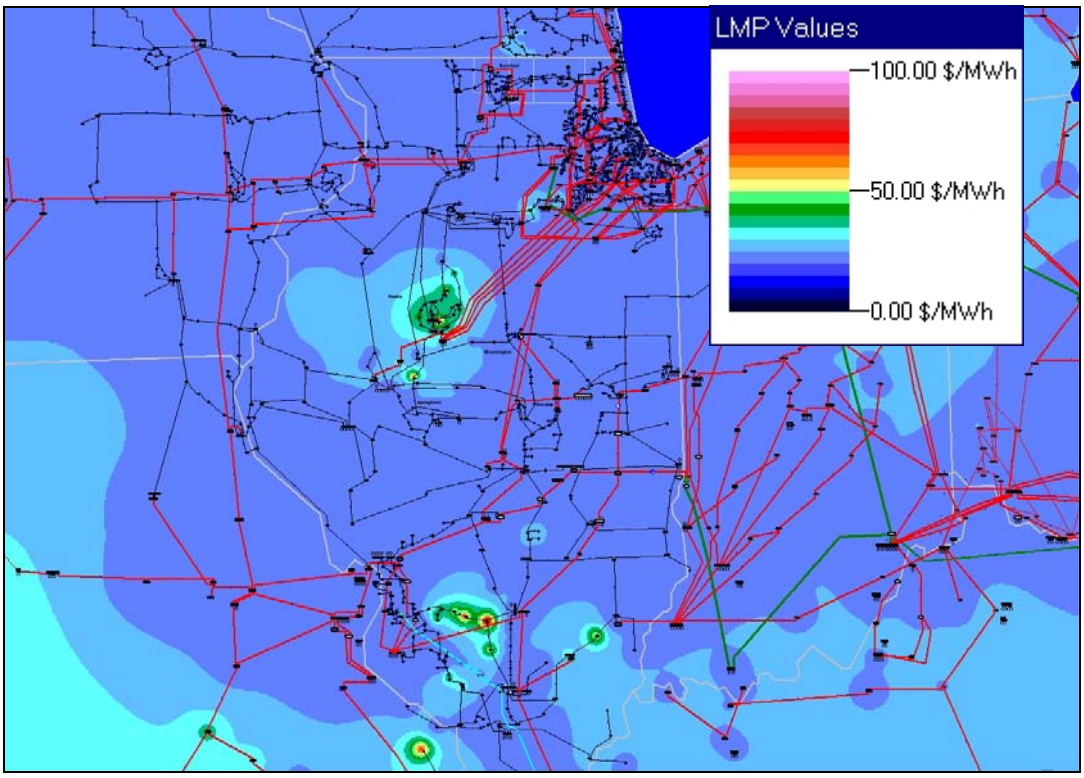

Figure F.1-18 Highest LMPs for January to March 2007

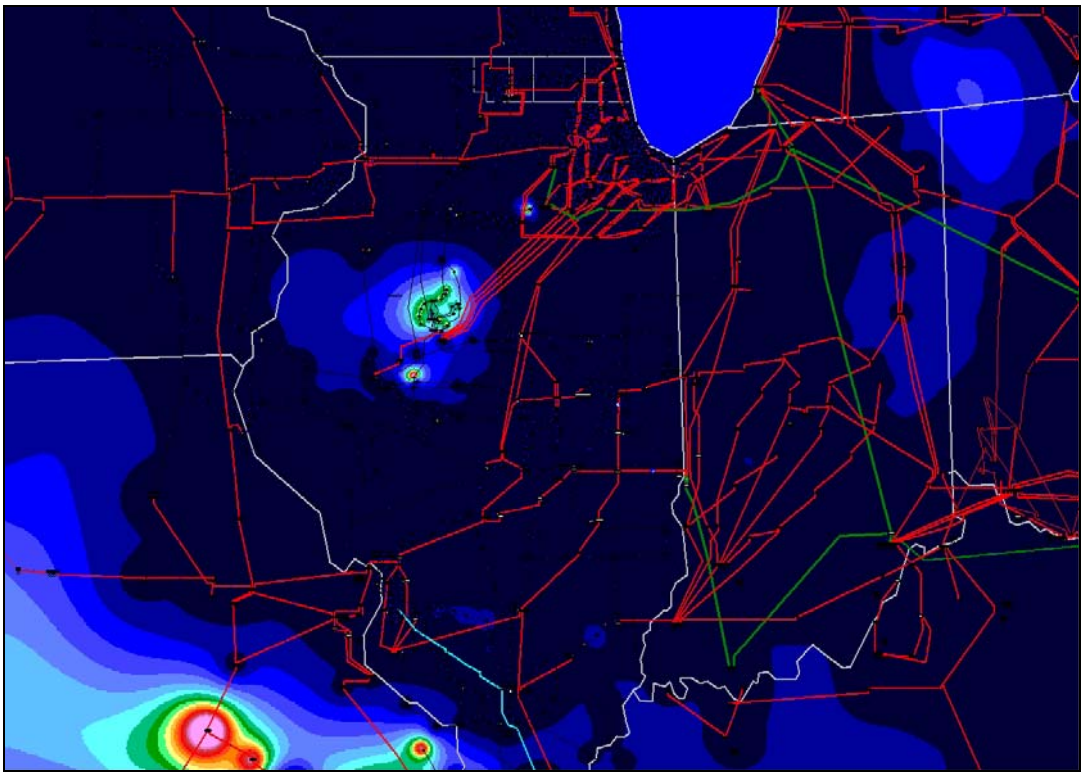

Figure F.1-19 Hours LMP Exceed $30/MWh for January to March 2007

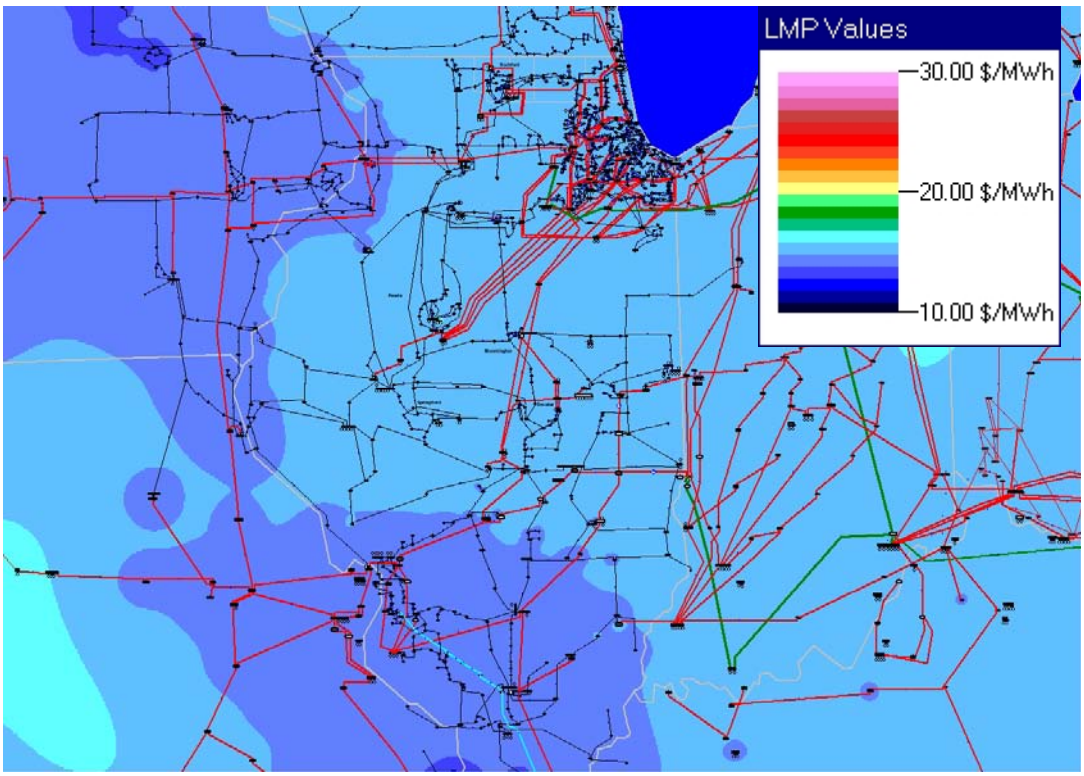

Figure F.1-20 Average LMPs for April to June 2007

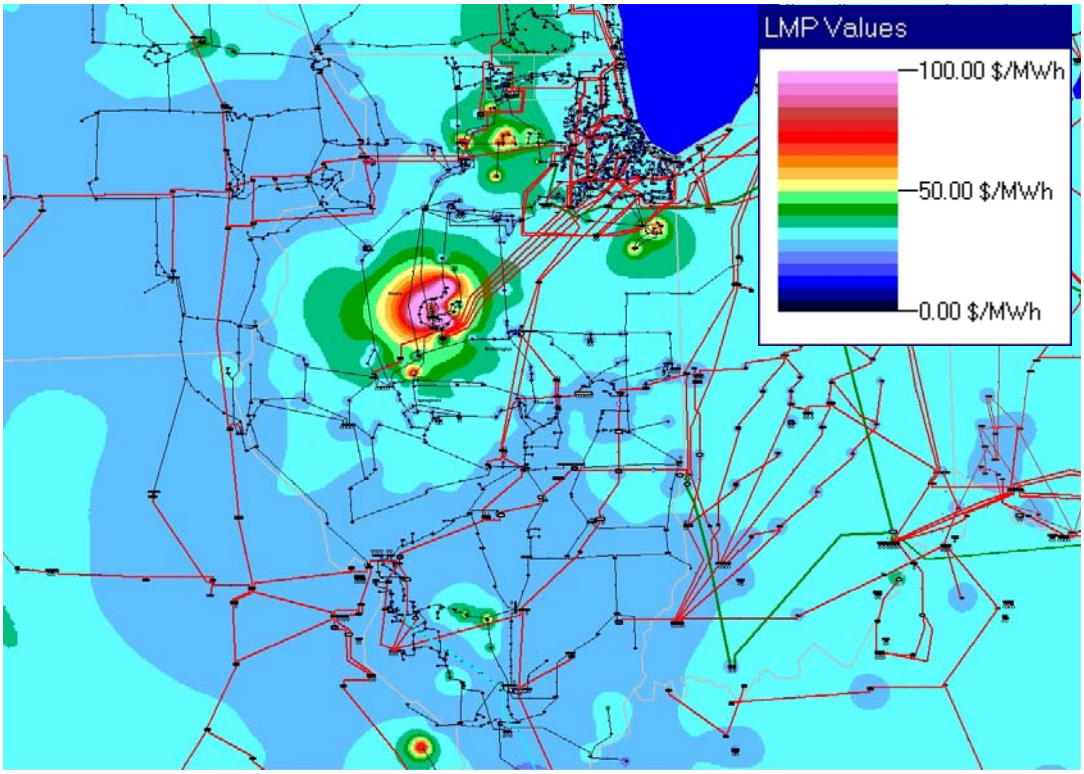

Figure F.1-21 Highest LMPs for April to June 2007

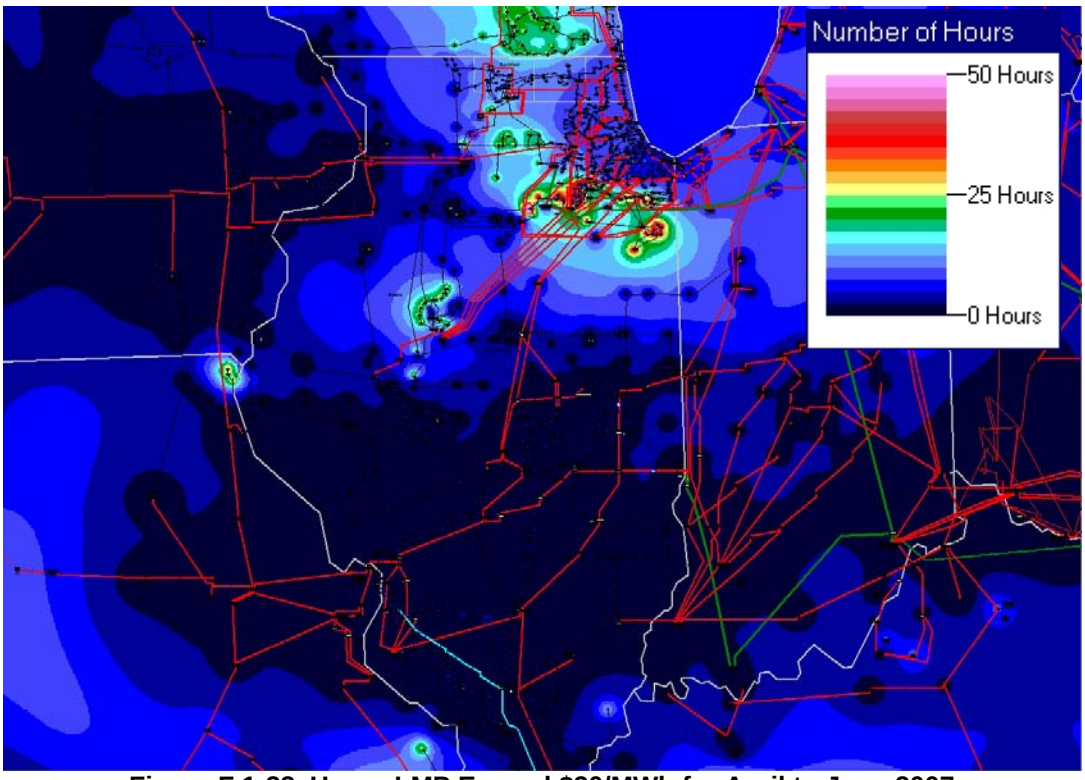

Figure F.1-22 Hours LMP Exceed $30/MWh for April to June 2007

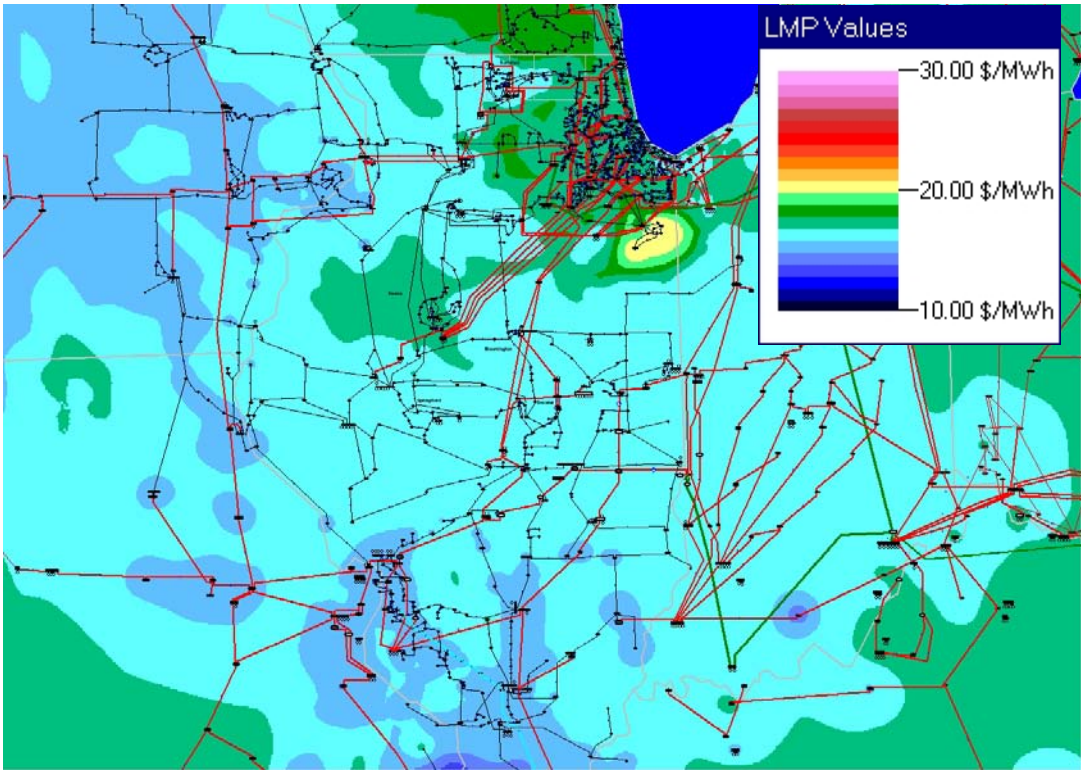

Figure F.1-23 Average LMPs for July to September 2007

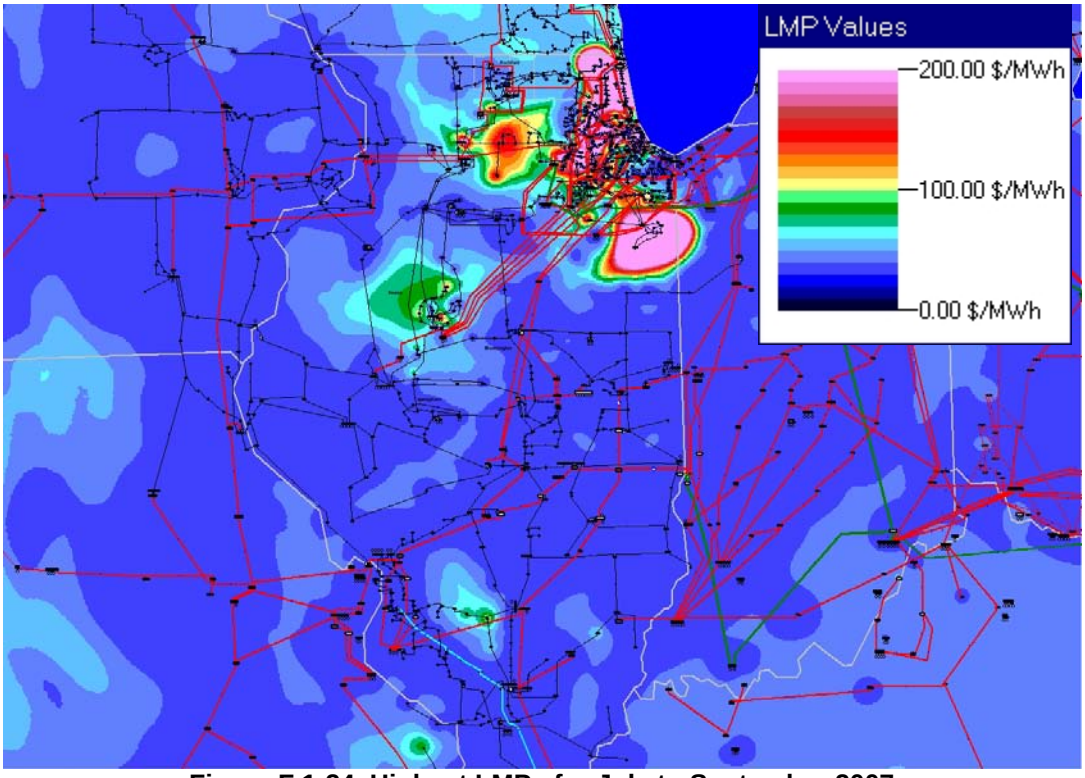

Figure F.1-24 Highest LMPs for July to September 2007

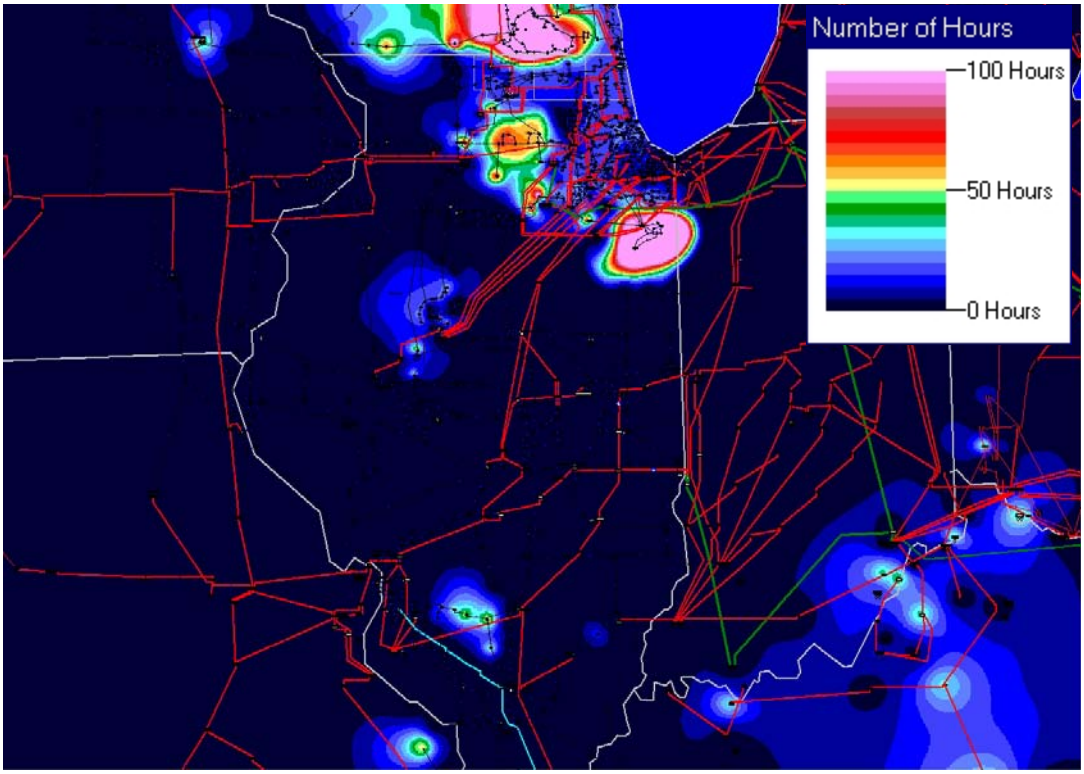

Figure F.1-25 Hours LMP Exceed $40/MWh for July to September 2007

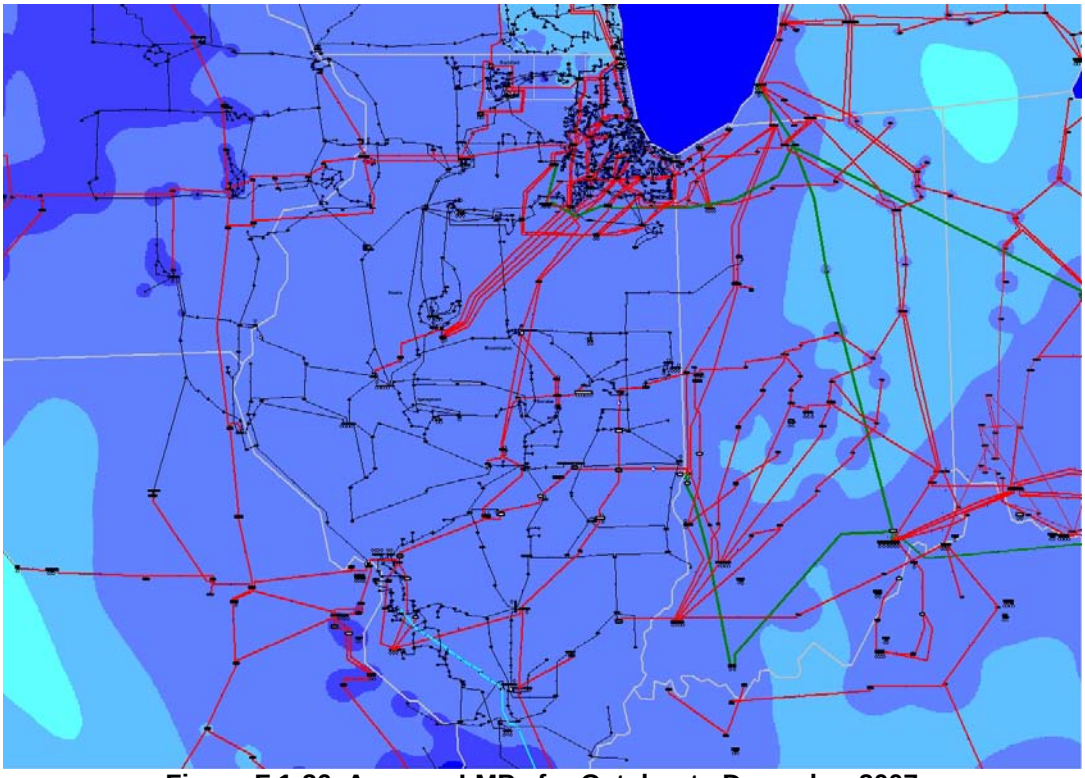

Figure F.1-26 Average LMPs for October to December 2007

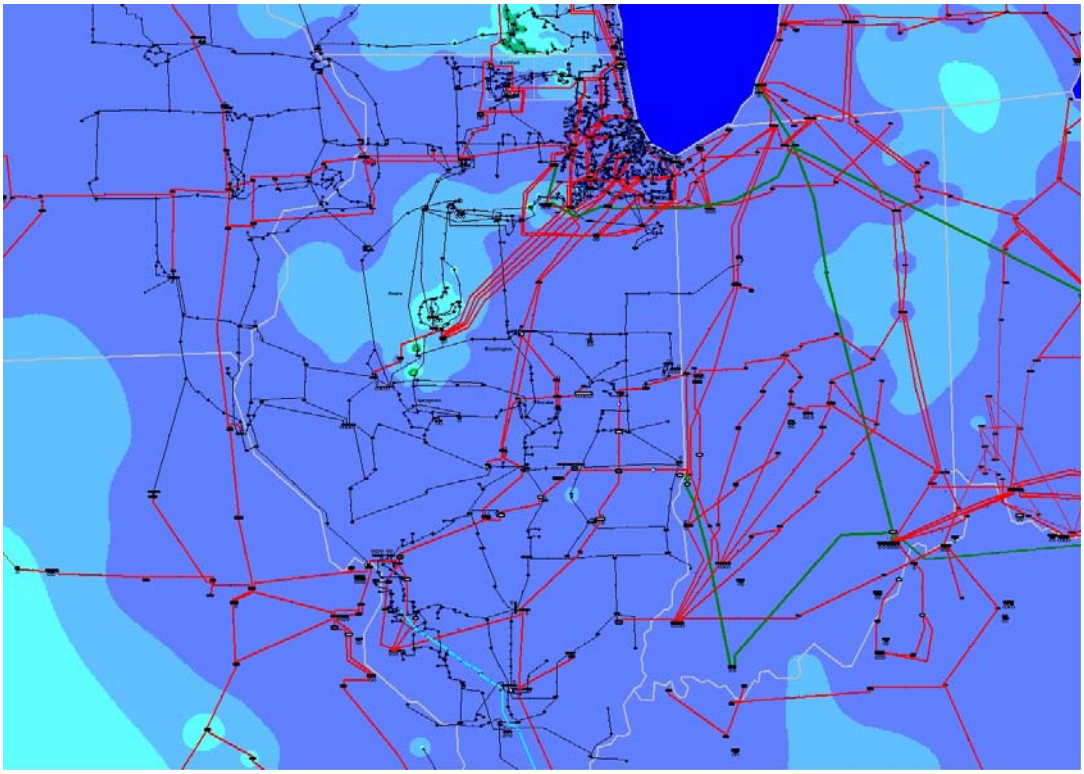

Figure F.1-27 Highest LMPs for October to December 2007

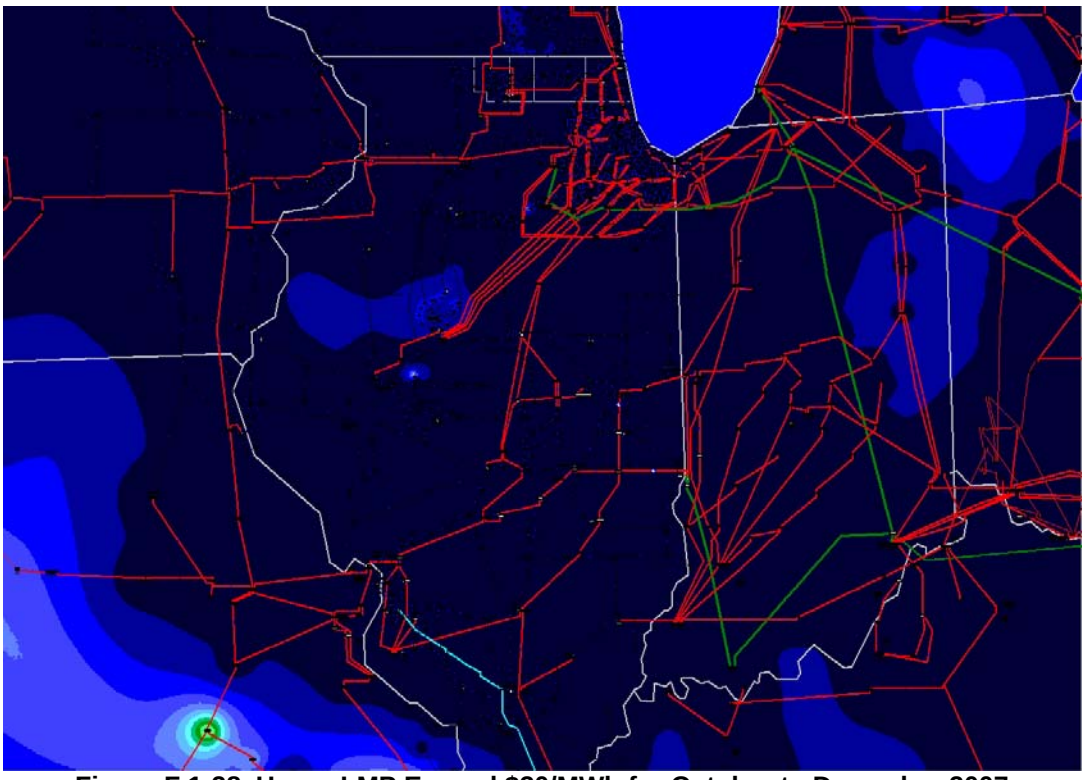

Figure F.1-28 Hours LMP Exceed $30/MWh for October to December 2007