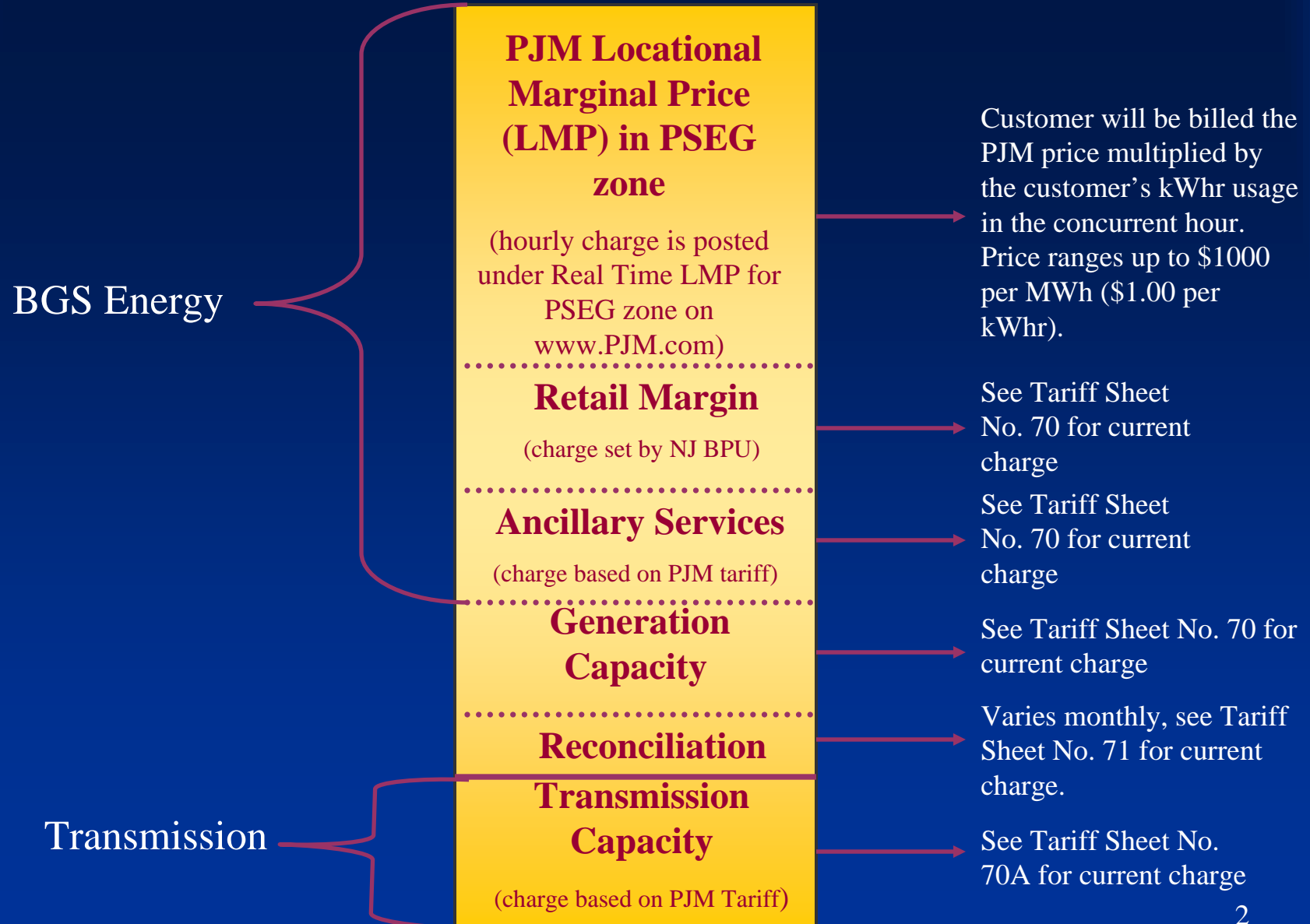


Calculation of BGS-CIEP
Hourly Energy Price Component
Using PJM Hourly Data
for the PSE&G Transmission Zone

BGS-CIEP Rate Components – Terms

New Jersey Sales and Use Tax and Losses are to be added where applicable.



BGS-CIEP Rate - Energy Components

- Real-Time Energy Market or PJM LMP Price
 - The PJM load weighted zonal average locational marginal price (LMP) is a real-time spot market price.
 - Customers on the BGS-CIEP rate will be billed the load-weighted hourly average price in the PSEG zone, as posted by PJM multiplied by that customer's kWhr usage in the concurrent hour. Price ranges up to \$1000 per MWh (\$1.00 per kWhr).
- Retail Margin
 - Set by the Board of Public Utilities in NJ for all CIEP customers.

BGS-CIEP Rate - Energy Components

(Continued)

- Ancillary Services Charge
 - For PJM administrative charges and;
 - Other generation-related items necessary for electric grid stability.
 - Charge is an overall average of various PJM Tariff charges.
- BGS Reconciliation Charges
 - Recovers the difference between monthly amount paid to BGS suppliers and the total revenue received from BGS customers for the preceding months for the applicable BGS supply.
 - Charge changes each month, and can be positive or negative (e.g. a charge or a credit).

BGS-CIEP Rate – Capacity Components

- BGS Capacity Charges (Generation)
 - Charges per kilowatt of Generation Obligation.
 - The charge recovers generation capacity costs, based on customer's allocated share of overall summer peak load on PJM system.
- BGS Transmission Charges
 - Charges per kilowatt of Transmission Obligation.
 - Recovers customer's share of PSE&G transmission system costs, based on overall summer peak load for PSEG.
 - Charge is set by PJM OATT (tariff).
 - Subject to change periodically on the effective date of the PJM rate as approved by Federal Energy Regulatory Commission (FERC).
- All Charges subject to Sales and Use Tax (SUT) – where applicable

Data Sources - Energy Price Data from PJM

<http://www.pjm.com>

The screenshot displays the PJM website interface. On the left, there is a 'Announcements & News Releases' section with a list of news items and PDF download links. In the center, there is an 'Upcoming Meetings' section with a table of events. On the right, there is a 'REAL-TIME STATISTICS' section. A red circle highlights the 'Real Time' button in the 'REAL-TIME STATISTICS' section, with a red arrow pointing to a text box that says 'Select Real Time'.

Event	Location	Date
<input checked="" type="checkbox"/> OC	PJM Interconnection	06.16.2009
<input checked="" type="checkbox"/> CRMSC	The Chase Center on the Riverfront	06.16.2009
<input checked="" type="checkbox"/> BSSWG	PJM Interconnection	06.16.2009
<input checked="" type="checkbox"/> SIS	PJM Interconnection	06.17.2009
<input type="checkbox"/> MRC	The Chase Center on the Riverfront	06.17.2009
<input checked="" type="checkbox"/> FERC Open Conference		06.18.2009
<input type="checkbox"/> SPWG	The Chase Center on the Riverfront	06.18.2009

REAL-TIME STATISTICS
last updated: 12:00 PM EST

Real Time Day Ahead

Current RT Demand (MW)	86,459
Today's Forecast Demand (MW)	88,690
Today's Peak Demand (MW)	86,459

LMP (Zone)	LMP (Hub)
AE \$35.48	AEP GEN HUB \$47.80
AEP \$48.91	AEP-DAYTON HUB \$49.37
APS \$73.37	CHICAGO GEN HUB \$32.91
BC \$37.03	CHICAGO HUB \$33.12
COMED \$33.02	DOMINION HUB \$39.86
DAYTON \$48.63	EASTERN HUB \$35.68
DOM \$39.35	N ILLINOIS HUB \$32.95
DPL \$35.47	NEW JERSEY HUB \$35.86
DUQ \$82.47	OHIO HUB \$49.47
JC \$35.71	WEST INT HUB \$47.86
ME \$34.13	WESTERN HUB \$41.67
DE \$24.72	

Data Sources - Energy Price data from PJM

about pjm | training | committees & groups | planning | **markets & operations** | documents

Home > Markets & Operations > Energy Market > Real-Time Energy Market

Real-Time Energy Market

PJM's Real-Time Market is a spot market in which current LMPs are calculated at five-minute intervals based on actual grid operating conditions. The real-time prices are posted on the [PJM Operational Data page](#). Transactions are settled hourly; invoices are issued to market participants monthly.

The following postings provide current and historical information about specific aspects of the Real-Time Market.

Postings	Posting Date
New External Interface Price Definitions (XLS)	05.05.2009
Statuses from eMKT Dispatch Lambda page (XLS)	01.13.2009
7-Day Load Forecast	
Monthly Real-Time LMP	
Marginal Fuel Type Data	
Pricing Point Calculator	
Historical MCP Files (TXT)	
Hourly Average Control Signal	
Historical Bid Data	

RELATED INFORMATION

- [Frequently Asked Questions](#)
- [Operating Agreement](#)
- [Industry Resources](#)
- [Manuals](#)
- [eTools](#)

RECENT DOCUMENTS

- MAY 14 2009** Scarcity Pricing Regions Posted 32 days ago [XLS](#)
- MAY 4 2009** New External Interface Price Definitions Posted 43 days ago [XLS](#)
- APR 16 2009** Historical DECSYS, PECGEN and NCMPA1 Real-Time LMP Prices Posted 61 days ago [XLS](#)
- APR 16 2009** Historic Highest and Lowest Bus Prices for DECSYS, PECGEN and NCMPA1 Aggregates Posted 61 days ago [XLS](#)

Select Monthly Real-Time LMP

Data Sources - Energy Price data from PJM

Home > Markets & Operations > Energy Market > Real-Time Energy Market > Monthly Locational Marginal Pricing

Monthly Locational Marginal Pricing

[Daily Real-Time LMP Data](#)
[Daily Day-Ahead LMP Data](#)

File	Posting Date
200905-rt.csv	6/4/2009 12:36:28 PM
200905-da.csv	6/4/2009 12:36:29 PM
200904-rt.csv	5/6/2009 9:56:31 AM
200904-da.csv	5/6/2009 9:56:32 AM
200903-rt.csv	4/6/2009 11:29:25 AM
200903-da.csv	4/6/2009 11:29:29 AM
200902-rt.zip	6/4/2009 9:00:21 AM
200902-da.zip	6/4/2009 9:00:23 AM
200901-rt.zip	5/12/2009 4:55:16 PM
200901-da.zip	5/12/2009 4:55:14 PM

RELATED INFORMATION

- [Frequently Asked Questions](#)
- [Operating Agreement](#)
- [Manuals](#)
- [eTools](#)
- [Industry Resources](#)

RECENT DOCUMENTS

- MAY 14** 2009 Scarcity Pricing Regions Posted 32 days ago [XLS](#)
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Data Sources - Energy Price data from PJM

eTools

- Energy Market
- Real-Time Energy Market**
- 7 Day Load Forecast
- Hourly Average Control Signal
- Preliminary Hourly Load Data
- Daily Real-Time LMP Files**
- Hourly Load Data
- Monthly Locational Marginal Pricing
- Historical Data
- Day-Ahead Energy Market
- Day-Ahead Scheduling Reserve Market
- LMP Model Information
- Operating Reserves
- Reliability Pricing Model
- Financial Transmission

Daily Real-Time LMP Files

The 'summary.txt' file below contains hourly aggregate Real-Time locational marginal pricing (LMP) for the last 7 days. The 'Date.csv' files contain hourly LMP in Eastern Prevailing Time (EPT), for all PJM bus locations, including aggregates, in comma separated variable format. To use '.csv' files in a spreadsheet, select 'Import' and 'comma delimited'.

Please note that the load-weighted average Transmission Zone Prices are ESTIMATES only. Transmission Zone Prices used in PJM accounting are not final until five PJM business days after the end of the month.

As of posting date August 1, 2008, the daily Real-Time LMP csv file may change slightly due to process changes required by the implementation of the new Market Settlement system. The only change would be the order in which the nodes are listed in the file. This should cause little or no issue to end user because the PnodeID uniquely marks the record no matter where the record exists in the file. If you have any questions please contact the Market's Hotline (610) 666-8998.

Summary (TXT)

Monthly Billing Data

File	Posting Date
summary.txt	7/9/2009 10:49:39 AM
20090708.csv	7/9/2009 10:49:40 AM

RELATED

- Fre
- Inc
- Ma
- eT

CONTACT

For additio
Member Re
at 866-400-

Select Monthly Billing Data

Data Sources - Energy Price data from PJM

File	Posting Date
200906-rt.csv	7/7/2009 10:19:27 AM
200906-da.csv	7/7/2009 10:19:55 AM
200905-rt.csv	6/4/2009 12:36:28 PM
200905-da.csv	6/4/2009 12:36:29 PM
200904-rt.csv	5/6/2009 9:56:31 AM
200904-da.csv	5/6/2009 9:56:32 AM
200903-rt.zip	7/5/2009 11:30:21 AM
200903-da.zip	7/5/2009 11:30:23 AM
200902-rt.zip	6/4/2009 9:00:21 AM
200902-da.zip	6/4/2009 9:00:23 AM
200901-rt.zip	5/12/2009 4:55:16 PM
200901-da.zip	5/12/2009 4:55:14 PM
200812-rt.zip	4/7/2009 11:15:18 AM
200812-da.zip	4/7/2009 11:15:16 AM
200811-rt.zip	3/24/2009 1:45:14 PM
200811-da.zip	3/24/2009 1:45:12 PM
200810-rt.zip	3/24/2009 1:50:20 PM
200810-da.zip	3/24/2009 1:50:28 PM

Select monthly file with "rt" designation for "Real Time" Note "da" is for "Day Ahead" pricing and is not used for BGS-CIEP

PJM LMP Zonal Average for PSE&G Zone – for 6/1/09

Price is shown in dollars per megawatt-hour
(Note new PJM format – see “Total LMP” column for each hour)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	CB	CC	CD	CE	CF	CG
1	Hourly Integrated Real-Time LMP values for 200906																					
2																						
3	The following values are weighted-average real-time LMPs used in PJM billing calculations.																					
4	Zone LMPs are load-weighted and were subject to change prior to the fifth PJM business day of the following month.																					
5																						
6	Start of Res	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500						
7	20090601	20.36	13.85	7.34	0	12.59	21.95	27.04	28.48	28.37	29.99	31.63	32.86	34.95	32.04	31						
8	20090602	20.17	23.86	12.65	18.87	17.49	21.65	27.38	29.5	30.31	32.29	35	35.86	56.34	11.51	64.92						
9	20090603	28.17	23.47	23.83	24.19	20.11	24.93	27.26	29.74	31.92	33.43	34.53	32.08	35.52	39.6	47.26						
10	20090604	25.17	22.86	10.13	13.86	21.05	25.68	30.15	30.09	31.53	32.3	33.13	31.1	32.22	33.52	30.41						
11	20090605	7.18	8.35	0	8.38	21.9	22.24	25.65	27.26	30.42	29.96	32.69	30.4	29.71	29.86	30.38						
12	20090606	17.32	8.06	0	0	0	0	0	-33.03	22.13	27.56	27.75	28.23	25.44	27.78	22.06						
13	20090607	20.58	-4.41	7.65	-24.13	-46.7	-4.46	-7.24	-12.51	23.76	33.37	34.53	31.08	31.46	36.55	31.3						
14	20090608	23.39	24.61	16.5	18.34	20.67	26.31	27.97	29.47	34.51	34.31	37.46	43.51	34.36	51.56	51.17						
15	20090609	28.17	26.23	24.87	19.18	20.13	25.88	28.5	29.96	29.34	30.39	34.33	34.14	42.02	44.05	46.2						
16	20090610	24.34	5.35	-2.33	6.56	0	8.89	25.43	28.64	29.04	30.18	30.36	31.82	30.41	30.81	31.43						
17	20090611	26.3	26.7	25.6	25.14	26.23	26.84	28	40.53	42.86	30.23	35.9	35.66	31.03	31.91	36.23						
18	20090612	25.81	25.95	24.33	22.43	24.45	23.4	25.72	29.19	50.21	39.49	39.8	34.84	35.46	61.12	61.97						
19	20090613	29.41	27.65	24.47	26.2	18.87	20.81	26.38	27.58	24.42	51.15	107.85	85.15	52.17	43.05	40.43						
20	20090614	28.19	27.63	25.83	21.96	22.86	21.83	3.42	23.01	27.69	28.3	28.85	31.26	30.89	31.16	34.51						
21	20090615	25.24	18.29	24.29	24.04	24.46	21.02	25.13	29.93	31.63	36.58	56.03	55.16	53.81	57.73	47.67						
22	20090616	25.86	25.78	25.19	0.56	16.83	21.2	27.56	28.11	28.61	30.14	30.66	35.89	41.86	44.45	40.61						
23	20090617	23.71	18.71	6.55	21.61	22.91	23.67	27.34	27.97	29.45	29.42	31.51	35.55	41.06	36.17	38.85						
24	20090618	21.82	25.4	22.09	19.19	17.31	25.3	27.08	29.25	29.33	30.78	33.06	36.69	35.7	38.15	40.61						
25	20090619	26.83	25.64	24.4	16.96	6.03	24	26.24	27.88	29.17	31.26	33.41	37.72	45.88	41.54	42.34						
26	20090620	27.42	27.26	26.64	24.39	7.24	15.75	19.15	26.22	28.02	28.35	29.96	30.35	30.93	31.45	32.26						
27	20090621	27.82	27.41	26.64	26.07	22.36	14.17	20.87	25.53	26.36	28.73	29.34	32.09	31.78	33.88	33.39						
28	20090622	25.32	25.06	24.31	23.24	21.99	23.24	27.36	30.82	36.45	48.74	52.59	59.34	46.17	48.36	51.57						
29	20090623	27.74	27.58	26.55	24.55	25.43	26.21	28.95	29.69	33.07	33.46	39.89	53.15	70.63	43.46	53.99						
30	20090624	27.38	25.52	24.47	23.99	20.09	24.28	28.16	28.56	31.42	32.34	38.29	41.96	51.37	44.88	53.43						
31	20090625	27.57	25.71	23.82	21.8	22.13	22.35	26.04	29.45	29.74	31.82	40.19	42.37	47.71	52.08	55.09						
32	20090626	26.89	25.79	25.23	24.44	24.42	25.6	27.07	29.23	31.31	32.7	33.97	43.17	44.57	46.97	48.15						
33	20090627	27.47	27.01	26.27	24.86	23.21	16.45	3.34	25.82	29.58	30.43	31.11	41.83	42.37	37.84	45.01						
34	20090628	27.1	25.37	22.59	23.63	17.62	-9.3	0	5.77	27.12	27.35	28.19	29.53	29.34	30.34	30.13						
35	20090629	27.08	26.13	-0.65	4.71	14.06	12.88	26.34	30.86	31.03	34.01	40.02	35.54	34.01	35.26	41.64						
36	20090630	25.27	21.19	26.22	24	25.05	26.22	23.48	28.5	34.63	43.9	45.19	66.32	56.92	39.38	53.18						
37	End of Real Time Energy Price Data																					
38																						
39	Start of Real Time LMP Data																					
40	Date	ProdID	Name	Voltage	Equipmen	Type	Zone	TotalsLMP	CongestionPrice	MarginalLossPrice	TotalsLMP	Congestion	MarginalLossPrice	TotalsLMP	Congestion	MarginalLossPrice						
41	20090601	1	PJM			ZONE		20.337	0	0.01746	13.862	0	0.0116	7.3472	0	0.0072						
42	20090601	51301	PSEG			ZONE		21.318	0	0.937663	14.477	0	0.627	7.6758	0	0.3358						
43	20090601	7633629	RECO			ZONE		21.218	0	0.83762	14.4	0	0.5498	7.6429	0	0.3029						
44	20090601	34437125	AEP GEN HUB			HUB		19.426	0	-0.354186	13.251	0	-0.5986	7.0309	0	-0.3091						
45	20090601	34437127	AEP-DAYTON HUB			HUB		19.714	0	-0.665719	13.419	0	-0.4307	7.1187	0	-0.2213						
8653																						
8654																						
8655																						
8656																						
8657																						