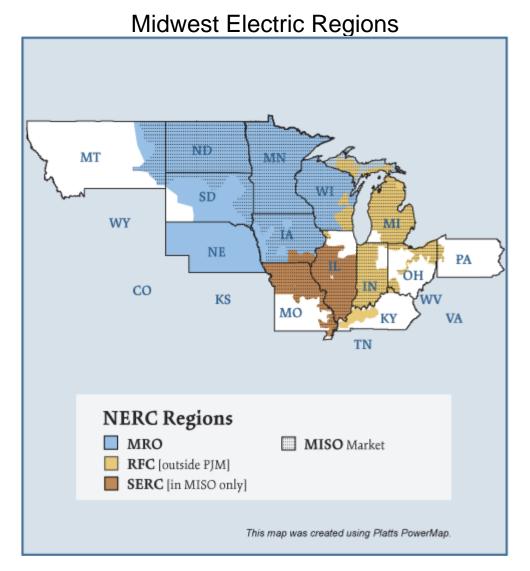
Midwest Electric Market: Overview and Focal Points

Federal Energy Regulatory Commission • Market Oversight @ FERC.gov



Overview

Geography

States covered: All or most of North Dakota, South Dakota, Nebraska, Minnesota, Iowa, Wisconsin, Illinois, Indiana, Michigan and parts of Montana, Missouri, Kentucky, and Ohio.

Reliability regions: Midwest Reliability Organization (MRO), Southeastern Electric Reliability Council (SERC) and Reliability *First* Corporation (RFC)

(These regions were formerly: East Central Area Reliability Coordination Agreement (ECAR), Mid-America Interconnected Network (MAIN), and Midcontinent Area Power Pool (MAPP) regions.)

Balancing authorities: See list on page 5.

RTO/ISO

Midwest ISO (MISO) (established 2002) administers a two-settlement (day ahead and real-time) energy market known as the Day-2 market. It produces hourly locational marginal prices that are rolled up into 5 regional hub prices. MISO also administers a monthly financial transmission rights (FTR) allocation and auction.

Midwest bilateral trading is active on the IntercontinentalExchange (ICE) at the Cinergy Hub and Northern Illinois Hub.

Interconnections/Seams

Since the start of the Day-2 market on April 1, 2005, persistent transmission constraints in the Wisconsin and the Upper Peninsula of Michigan (WUMS) and Minnesota areas have caused their prices to diverge from other areas of MISO, usually at times of high loads or decreased generation supply.

Generation/Supply (MISO only)

Marginal fuel type: Coal

Generating capacity (summer 2006): 137,232 MW

Capacity reserve (summer 2006): 21,025 MW

Reserve margin (summer 2006): 18%

Demand (MISO only)

All time peak demand: 116 GW (set July 31, 2006)

In summer of 2006, demand reached record levels on several occasions due to extremely hot weather.

Peak demand growth: 3.4% (2006-2005)

Summer Peak Demand (GW): 112.2 (2005) 116 (2006) Source: Derived from MISO Data

Prices (MISO only)

Annual Average Day-Ahead Price at Cinergy Hub: \$50.54/MWh (2005) \$41.09/MWh (2006)

Prices increased in 2005 as a result of disturbances to the natural gas market. Prices declined in 2006 as natural gas storage levels remained above historical ranges throughout the injection season (April through October).

Focal Points

Day-2 Operations: The Midwest Independent System Operator (MISO) started Day-2 market operations on April 1, 2005. This is the date that real-time market operations began and MISO began centrally dispatching wholesale electricity and transmission service throughout much of the Midwest. The market produces Locational Marginal Prices (LMP) for five-minute intervals at numerous locations throughout the MISO market footprint. These prices are aggregated into five hub prices that provide participants with price indices. These regional pricing points are the Minnesota, Michigan, Illinois, Cinergy and First Energy hubs. LMP and hub prices give participants better market information than was previously available.

Minnesota Price Volatility: Minnesota hub prices have been volatile over the past year, at times moving significantly above or below other MISO hubs. Possible contributing factors were long-term generator outages and derates due to maintenance, a supply of large baseload units, higher than expected summer temperatures, and decreased imports into the Minnesota region.

LGE, KU withdraw: On September 1, 2006 Louisville Gas & Electric (LG&E) and Kentucky Utilities Company (KU) withdrew from MISO. These entities are owned by E.ON U.S. and are now considered Non-Transmission Owning Members of MISO. The withdrawal effectively removed their assets (load, generation and transmission lines) from MISO dispatch and control. The Kentucky Public Service Commission approved the Tennessee Valley Authority (TVA) to be their Reliability Coordinator and the Southwest Power Pool (SPP) to be their independent transmission organization. LG&E and KU engage in market transactions in MISO as any other Non-Transmission Owning Member. MISO no longer produces Locational Marginal Prices for any LG&E or KU points.

Balancing Authorities in the Midwest Electric Market

Regional Reliability Council and Balancing Authority	NERC Acronym	MISO Member
MRO		
Alliant Energy - CA – ALTE Alliant Energy - CA – ALTW Dairyland Power Cooperative	ALTE ALTW DPC	Yes Yes
Great River Energy Lincoln Electric System	GRE	Yes Yes
Madison Gas and Electric Company MHEB, Transmission Services MidAmerican Energy Company	MGE MHEB MEC	Yes Yes
Minnesota Power, Inc. Muscatine Power and Water Nebraska Public Power District	MP MPW NPPD	Yes
Northern States Power Company Omaha Public Power District	NSP OPPD	Yes
Otter Tail Power Company SaskPower Grid Control Centre	OTP SPC	Yes
Southern Minnesota Municipal Power Agency Upper Peninsula Power Co. Western Area Power Administration - Upper Great Plains East	SMP UPPC WAUE	Yes
Wisconsin Public Service Corporation	WPS	Yes
RFC		
Cinergy Corporation City Water Light & Power (Springfield, IL) DECA, LLC – Vermillion	CIN CWLP DEVI	Yes
First Energy Corp. Hoosier Energy	FE HE	Yes Yes
Indianapolis Power & Light Company LG&E Energy Transmission Services	IPL LGEE	Yes
Michigan Electric Coordinated Systems Northern Indiana Public Service Company Ohio Valley Electric Corporation Southern Indiana Gas & Electric Co. Wisconsin Energy Corporation	MECS NIPS OVEC SIGE WEC	Yes Yes
SERC		
Ameren Transmission Illinois Power Co. Central Illinois Light Co Southern Illinois Power Cooperative Columbia Water & Light	AMRN IP CILC SIPC CWLD	Yes Yes Yes Yes Yes
SPP		
Aquila Networks - MPS	MPS	Yes

MISO Electric Market: Supply and Demand

Supply and Demand Statistics for MISO

Supply Demand Statistics			
	2004 (2)	2005	2006 (1)
Summer Generating Capacity MW	NA	136,402	137,232
Summer Peak Demand MW	101,538	112,197	116,207
Summer Reserves MW	NA	24,205	21,025
Summer Reserve Margin:	NA	22%	18%
Annual Load (GWh):	569,475	607,474	NA
Annual Net Generation GWh	NA	NA	NA

Footnote (1)/ This includes LG&E and KU. LG&E and KU left the MISO market on 9/1/2006

Footnote (2)/ The MISO Day-2 market did not exist in the summer of 2004

Source: Derived from the Midwest ISO website (<u>www.midwestiso.org</u>) and from FERC staff discussions with MISO. Updated January 8, 2007

MISO Electric Market: Prices

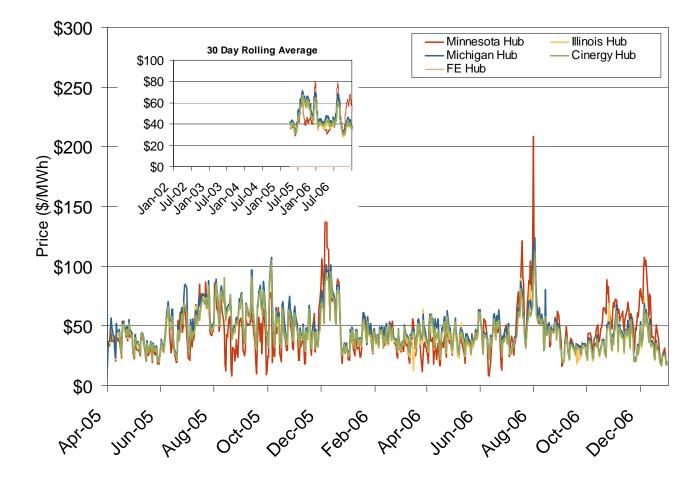
Yearly Average of RTO DA Prices -- All Hours

Annual Average Day Ahead Prices (\$/MWh) (MISO only				
	2005	2006		
Minnesota Hub	\$46.34	\$44.83		
Cinergy Hub	\$50.54	\$40.44		
Illinois Hub	\$50.06	\$39.83		
Michigan Hub	\$53.81	\$43.40		

Source: Derived from the *MISO* data..

MISO Electric Market: Prices

Daily Average of MISO Day-Ahead Prices - All Hours

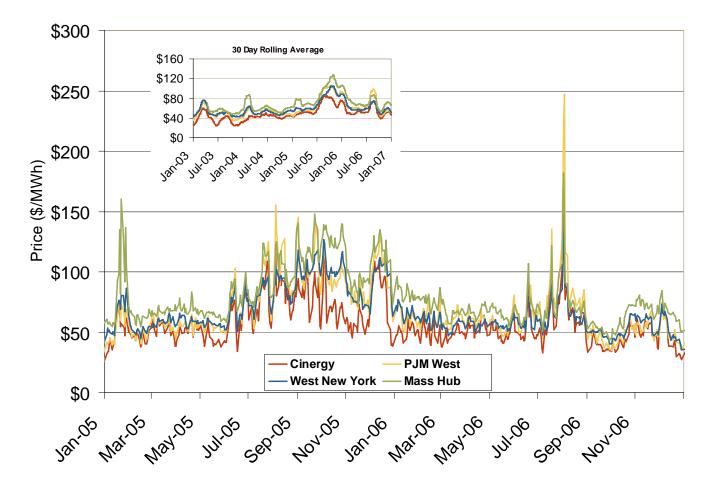


Source: Derived from MISO data.

Updated January 16, 2007

MISO Electric Market: Prices

Eastern Daily Bilateral Day-Ahead On-Peak Prices

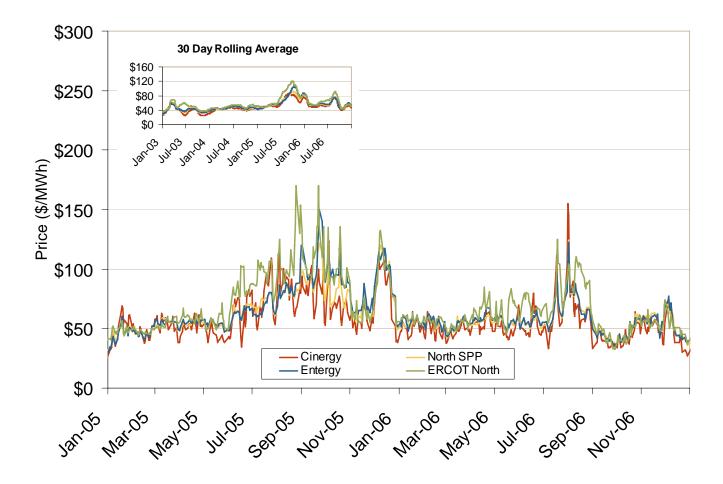


Source: Derived from *Platts* data.

Updated January 16, 2007

Midwest Electric Market: Prices

Midwestern Daily Bilateral Day-Ahead On-Peak Prices

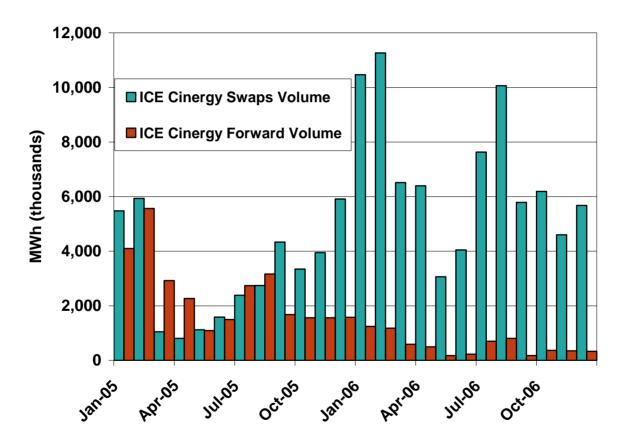


Source: Derived from *Platts* data

Updated January 16, 2007

MISO Electric Market: Financial Market Volumes

Cinergy Forward and Swap Volumes



Source: Derived from ICE data. ICE on-peak forward and swap volumes are for the Cinergy Hub and include monthly, dual monthly, quarterly, and calendar year contracts traded for each month.

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