Platts

S&P Global
Energy

Methodology and Specifications Guide

M2MS North America Power Forward Curves

Latest update: February 2026

Introduction

Platts' methodologies are designed to produce forward curves that are representative of market value, and of the particular markets to which they relate. Methodology documents describe the specifications for various products reflected by Platts' Market Data, the processes and standards Platts adheres to in collecting data, and the methods by which Platts arrives at final values for publication. These guides are freely available on Platts' website for public review.

Platts discloses publicly the days of publication for its forward curves, and the times during each trading day in which Platts considers transactions in determining its forward curves. This schedule of publication is available on Platts' website, at the following link: http://www.platts.com/HolidayHome.

The dates of publication and the curve production periods are subject to change in the event of outside circumstances that affect Platts' ability to adhere to its normal publication schedule. Such circumstances include network outages, power failures, acts of terrorism and other situations that result in an interruption in Platts' operations at one or more of its worldwide offices. In the event that any such circumstance occurs, Platts will endeavor, whenever feasible, to communicate publicly any changes to its publication schedule and curve production periods, with as much advance notice as possible.

All Platts methodologies reflect Platts' commitment to maintaining best practices.

Platts' methodologies have evolved to reflect changing market conditions through time, and will continue to evolve as markets change. A revision history, a cumulative summary of changes to this and future updates, is included at the end of the methodology.

How this methodology statement is organized

This description of methodology for forward curves is divided into seven major parts (I-VII) that parallel the entire process of producing the forward curves.

- Part I describes what goes into Platts forward curves, including details on what market data is used.
- Part II describes the security practices that Platts uses in handling and treating data.
- Part III is a detailed account of how Platts collects market data, and what Platts does with the data to formulate its forward curves..
- Part IV explains the process for verifying that published curves comply with Platts' standards.
- Part V lays out the verification and correction process for revising published curves and the criteria Platts uses to determine when it publishes a correction.
- Part VI explains how users of Platts forward curves can contact Platts for clarification of data that has been published, or to register a complaint. It also describes how to find out more about Platts' complaint policies.
- Part VII is a list of detailed specifications for the trading locations and products for which Platts publishes forward curves in this commodity.

Part I: Data quality and data submission

Platts aggregates multiple data sources to produce a single cross-checked series of curves using an open and validated methodology, offering clients a view of forward values that can be used for independent valuation, mark-to-market validation processes, strategic decision support, or other portfolio risk management processes. The product also provides a valuable source of information for evaluating and verifying internally generated values for marking forward positions.

Platts maintains comprehensive historical data on spot and forward prices of individual locations. This dataset is used to define and statistically verify temporal and spatial relationships among the hubs. This data, along with ICE market data, is a primary and critical input into the CRS (Commodity Risk Solutions) quantitative curve generation process and is an asset that is unique to Platts.

Platts and IntercontinentalExchange (ICE) reached an agreement in October 2007 to combine the data-gathering capabilities of each company with Platts' expertise and avowed methodology systems to enhance the rapidly growing forward curve product offerings in North American natural gas and electricity.

Under the agreement Platts incorporates ICE settlement and intra-day forward trading activity in the Electricity markets on the ICE platform, including daily End of Day and Cleared Settlement reports as key inputs into the Platts M2MS (quantitatively derived using settlement prices) curves. Platts benefits from this relationship by having the exclusive right to use ICE intra-day and end of day data for the purposes of forward curve derivation.

General principles applicable to all derivative or forward markets

- Forward prices are a reflection of ICE Market Data and are subject to careful review.
- Platts tracks values and interrelationships over the whole course of the day.
- Information is cross-checked to ensure data integrity.

- Illiquid markets may be estimated as spreads relative to active liquid markets.
- Platts gives highest priority to available market data but allows for the use of model data to fill out curves where market data provide no indications.
- Relevant market information is considered even in the development of prices for hubs where no ICE Market Data data is available.

Part II: Security and confidentiality

Data is stored in a secure network, in accordance with Platts' policies and procedures.

Part III: Calculating forward curves

The following section describes how Platts uses the transactional data it has collected in the manner described in Part1, to formulate the forward curves.

1. Receive ICE pre-settlement data.
2. Shape ICE settlement data to increase granularity to monthly. The shaping methodology for each curve breaks the package into monthly granularity by combining information from historical forward prices, historical spot prices, and ICE forward prices. When the model is set up, shaping factors are calculated daily to better reflect market conditions. The time horizon used for generating shaping factors is selected to best represent the temporal dimension.
3. Incorporate ICE activity data. Curves are derived by considering available market information from ICE Intra Day and Activity reports. When the information is available in seasonal packages, Platts applies the shaping methodology to generate monthly curves.
4. Extend the curves for Market locations using EIA Electricity Market Forecasts.
5. Derive curves for Proxy locations. The curve is derived based on similarity in seasonal pricing patterns and overall price correlation. This approach necessarily relies on modeling to a greater degree than Market hubs. Platts performs three calculations to estimate these strips:

a. Proxy hubs are assigned to market hubs based on their similarity in seasonal pricing patterns and overall price correlation.

b. The price relationship between the pair of hubs is defined and is calculated from the historical data set.

c. The monthly values for the market hub are used to determine the prices for the proxy hub.

6. Quality assurance and review: In daily production, analysts closely monitor the curve shape to differentiate changes in the term structure from other market activity. We check for outliers, curve abnormalities, and unusual price movements. Curves are later verified with ICE Final Settlement data for consistency.
7. The curves are published and delivered to clients via FTP, Platts.com, channel partners, and/or email.

Shaping

For trading packages that include multiple months, Platts derives a shaping methodology for each month to break the package into monthly granularity by combining information from historical forward prices, historical spot prices, and ICE forward prices.

When the model is set up, shaping factors are calculated daily to better reflect market conditions. The time horizon used for generating shaping factors is selected to best represent the temporal relationship of the forward price with enough data to guarantee the stability of the curve shapes. Monthly shaping will always average to ICE package values.

In daily production, analysts closely monitor the curve shape to differentiate changes in the term structure from other market activity.

Electricity market forecasts and 20 year curves

Platts utilizes electricity price forecasts from the U.S. Energy Information Administration's Electricity Market Forecasts for the purposes of extending curves beyond available market data. For 20 year curves, the first 120 months is consistent with the 120 month M2MS curve of the last trading day of the month. The latter part of the curve is determined by blending the results from electricity market forecasts obtained from the US EIA.

Based on the model and current market fundamentals, Platts includes information inferred from near-term market data onto the farther end. The resulting product is a discrete and smooth curve that gives priority to market data when available but has a robust, consistent process for building prices when market data is not available.

20 year forward curves are published twice a month - on the 15th (or next closest business day) and last business day of month.

Peak/off-peak conversion

- The daily forward prices that make up the Power Forward Curve are for standard on-peak and off-peak forward products.
- Standard on-peak forward packages in Eastern and Central markets include power delivered during the 16 on-peak hours on weekdays and exclude weekends and holidays defined by the North American Electric Reliability Corp (NERC).

- Standard on-peak forward packages in Western markets include power delivered during the 16 on-peak hours each day Monday through Saturday and exclude Sundays and NERC holidays.
- Standard off-peak forward packages in the Eastern and Central markets include power delivered during the eight off-peak hours each weekday and all hours on weekends and NERC holidays.
- Standard off-peak forward packages in the Western markets include power delivered during the eight off-peak hours Monday through Saturday and all hours on Sunday and NERC holidays.

Baseload Calculations to Support US PPA Assessments

As part of our effort to support Platts U.S. PPA assessments, we have developed baseload calendar-year symbols extending 20+ years for select hubs. Baseload is defined as a weighted average of 16 hours of peak and 8 hours of off-peak pricing, based on the monthly granularity pricing available at each location.

The first calendar-year symbol (Yr01) excludes balance-of-month pricing and begins with the first full contract month available through December of that same year. For example, during January, Yr01 reflects pricing from February through December. Yr02 through Yr20 represent full calendar years, while Yr21 represents a partial final year. Using the same January example, Yr21 contains only one month of underlying data; in February, it would expand to include two months, and so on.

The first 10 years of these baseload symbols are updated daily, while the balance of the remaining 10 years continues to reference the most recent 20-year curve published. This will continue to be the case until the 20-year curves are refreshed on 15th of the month (or next closest business day) and the last business day of the month. For example, on January 23, 2026, the first 10 years of symbols reflect values updated on January 23, 2026, while the balance of the remaining 10 years reference values updated on January 15, 2026. On January 30, 2026, all years and corresponding symbols will be updated on that business day.

Part IV: Platts standards

All Platts' employees must adhere to the S&P Global Code of Business Ethics (COBE), which has to be signed annually. The COBE reflects S&P Global's commitment to integrity, honesty and acting in good faith in all its dealings.

In addition, Platts requires that all employees attest annually that they do not have any personal relationships or personal financial interests that may influence or be perceived to influence or interfere with their ability to perform their jobs in an objective, impartial and effective manner.

Platts has a Quality & Risk Management (QRM) function that is independent of the Commodity Risk Solutions (CRS) group. QRM is responsible for ensuring the quality and adherence to Platts' policies, standards, processes and procedures. The QRM team conduct regular assessments of CRS operations, including checks for adherence to published methodologies.

S&P Global's internal auditor, an independent group that reports directly to the parent company's board of directors, reviews the Platts risk assessment programs.

Part V: Corrections

Platts is committed to promptly correcting any material errors. When corrections are made, they are limited to corrections to data that was available when the forward price was calculated.

Part VI: Requests for clarifications of data and complaints

Platts strives to provide critical information of the highest standards, to facilitate greater transparency and efficiency in physical commodity markets.

Platts customers raise questions about its methodologies and the approach taken in the formation of forward curves. Platts strongly values these interactions and encourages dialogue concerning any questions a customer or market stakeholder may have.

However, Platts recognizes that occasionally customers may not be satisfied with responses received or the services provided by Platts and wish to escalate matters. Full information about how to contact Platts to request clarification around an assessment, or make a complaint, is available on the Platts website, at: http://www.platts.com/ContactUs/Complaints.

Part VII: Definitions of the North American locations for which Platts publishes forward curves

The following M2MS-Power Methodology and Specifications Guide contains the primary specifications and methodologies for Platts Power Forward Curves in North America. The various components of this guide are designed to give Platts subscribers as much information as possible about a wide range of methodology and specification issues.

This methodology is current at the time of publication. Platts may issue further updates and enhancements to this methodology and will communicate these to subscribers through its usual publications of record. Such updates will be included in the next version of the methodology. Platts managers will usually be ready to provide guidance when forward curve issues require clarification.

Platts' Commodity Risk Solutions (CRS) daily 10 year and monthly 20 year M2MS-Power forward curves aim to bring greater price transparency to power forward markets in North America and to provide an independent view of forward peak/off peak power values for multiple power hubs in the US and Canada, including those where there is minimal or no trading activity on any given day. They provide a regionally comprehensive and industry-accepted standard for normalized short-and long-term power contract valuations.

Platts produces M2MS-Power curves at multiple delivery points across North America. We classify our locations into two categories for the purpose of curve production:

- **Market Hubs:** For liquid trading locations at which settlement data is available and verifiable.
- **Proxy Hubs:** For locations where there is little or no market data available. The CRS quantitative methodology uses fundamental analysis and statistical testing to establish a defendable proxy relationship between these hubs and one of the Market hubs defined above.

Each value on a 36-month implied volatility curve is obtained as an annualized standard deviation of the month-to-month returns of the corresponding M2MS forward price, taken over the course of the preceding 12 business months.

Each value on a 36-month heat rate curve is obtained as a ratio between the M2MS-Power and M2MS-Gas forward prices on a particular day. The forward prices used to derive the heat rate refer to a specific pair of Power and Gas hubs and the same delivery month.

Platts M2MS-Power offers the following curves for the North American Power market:

- 120-Month Peak and Off-Peak curves, delivered daily, provide market-based forward price with monthly granularity plus balance of the month for 80+ locations. 20-Year Peak and Off-Peak curves, delivered monthly, provide 240-month (20-year) monthly granularity forward curves plus balance of the month for 80+ locations, derived by combining the current 120-month regional forward assessments with 20 year annual price projections incorporating market fundamentals. Balance of the month refers to the period beginning from the day after the spot flow date to the last trade date of the month.
- All curves are available in six regional packages (ERCOT, Northeast, PJM/MISO, Southeast, West, and Canada).
- A seventh package, M2MS National, contains 22 of the most liquid trading locations in the US and Canada.
- Subscribers to both M2MS Power and M2MS Gas packages also receive forward heat rate curves. These heat rate curves are not market curves; they are implied from the gas and power prices.

How to read the symbol tables:

For the ten-year and twenty-year subscriptions, each location has a reference of the form:

zzzzxyy.

This can be decoded to all symbols for a location in this manner:

zzzz is the hub code for that location, and does not change for a particular location.

For Balance of Month (BOM) For all other contracts:

xyy = B00 x = month, where A = Jan, B = Feb, ... L = Dec.

yy = year, without century. Note that for both the ten-year and twenty-year subscriptions, all years are included, i.e. the twenty-year includes the first ten years, but with slightly different hub codes.

For example,

Henry Hub BOM = NHHMB00

ALGONQUIN Jul 18 = NAGMG18

M2MS-power Northeast region symbols (bate code:U)

Location	Location Category	10 Year Symbol	20 Year Symbol	Location	Location Category	10 Year Symbol	20 Year Symbol
ISO-NE NE-Mass Opk	Market	ENMCxyy	ENMDxyy	NY ISO H (Milwood) Opk	Proxy	ENHQxyy	ENHOxyy
ISO-NE NE-Mass Pk	Market	ENMAxyy	ENMBxyy	NY ISO H (Milwood) Pk	Proxy	ENHPxyy	ENHMxyy
ISO-NE New Hampshire Opk	Market	EHHCxyy	EHHDxyy	NY ISO Mohawk Valley Zone (E) Opk	Proxy	ENECxyy	ENEDxyy
ISO-NE New Hampshire Pk	Market	EHHAxyy	EHHBxyy	NY ISO Mohawk Valley Zone (E) Pk	Proxy	ENEAxyy	ENEBxyy
ISO-NE Salisbury Node NB345 Opk	Proxy	ESACxyy	ESADxyy	NY ISO Zone A (West) Opk	Market	ENAOxyy	ENAQxyy
ISO-NE Salisbury Node NB345 Pk	Proxy	ESAAxyy	ESABxyy	NY ISO Zone A (West) Pk	Market	ENAMxyy	ENAPxyy
ISO-NE SE-MASS Opk	Market	ESMCxyy	ESMDxyy	NY ISO Zone C (Central) Opk	Market	ECNCxyy	ECNDxyy
ISO-NE SE-MASS Pk	Market	ESMAxyy	ESMBxyy	NY ISO Zone C (Central) Pk	Market	ECNAxyy	ECNBxyy
ISONE Vermont Zone Opk	Proxy	EVMCxyy	EVMDxyy	NY ISO Zone D (North) Opk	Market	ENDOxyy	ENDQxyy
ISONE Vermont Zone Pk	Proxy	EVMAxyy	EVMBxyy	NY ISO Zone D (North) Pk	Market	ENDMxyy	ENDPxyy
ISO-NE W Central Mass Opk	Market	EMMCxyy	EMMDxyy	NY ISO Zone F (Capital) Opk	Market	EFNCxyy	EFNDxyy
ISO-NE W Central Mass Pk	Market	EMMAxyy	EMMBxyy	NY ISO Zone F (Capital) Pk	Market	EFNAxyy	EFNBxyy
NEPOOL Mass Hub Opk	Market	EMHOxyy	EMHQxyy	NY ISO Zone G (Hudson Val) Opk	Market	ENGOxyy	ENGQxyy
NEPOOL Mass Hub Pk	Market	EMHMxyy	EMHPxyy	NY ISO Zone G (Hudson Val) Pk	Market	ENGMxyy	ENGPxyy
NEPOOL-CT Opk	Market	ENCOxyy	ENCQxyy	NY ISO Zone J (NYC) Opk	Market	ENJOxyy	ENJQxyy
NEPOOL-CT Pk	Market	ENCMxyy	ENCPxyy	NY ISO Zone J (NYC) Pk	Market	ENJMxyy	ENJPxyy
NEPOOL-North Opk	Market	ENNOxyy	ENNQxyy	NY ISO Zone K (Long Island) Opk	Proxy	ENKOxyy	ENKQxyy
NEPOOL-North Pk	Market	ENNMxyy	ENNPxyy	NY ISO Zone K (Long Island) Pk	Proxy	ENKMxyy	ENKPxyy
NEPOOL-RI Opk	Proxy	ENROxyy	ENRQxyy	NYISO I (Dunwoodie) Opk	Proxy	EINQxyy	EINOxyy
NEPOOL-RI Pk	Proxy	ENRMxyy	ENRPxyy	NYISO I (Dunwoodie) Pk	Proxy	EINPxyy	EINMxyy
NY ISO B (Genesee) Opk	Proxy	ENBQxyy	ENBOxyy	Ontario Opk	Market	EONOxyy	EONQxyy
NY ISO B (Genesee) Pk	Proxy	ENBPxyy	ENBMxyy	Ontario Pk	Market	EONMxyy	EONPxyy

Northeast Region

ISO-NE NE-Mass

NE-Mass, or Northeast Mass, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

ISO-NE New Hampshire

ISO-NE New Hampshire is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

ISO-NE Salisbury Node NB 345

Located in ISO-NE with New Brunswick interface. Pricing is based off of the peak and off-peak mathematical averages of hourly day ahead LMP prices published by ISO-NE on their website, www.iso-ne.com.

ISO-NE SE-Mass

SE-Mass, or Southeast Mass, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

ISO-NE Vermont Zone

ISO-NE Vermont Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

ISO-NE W Central Mass

W Central Mass, or West Central Mass, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

NEPOOL Connecticut

NEPOOL Connecticut, or ISO-NE Connecticut, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

NEPOOL Mass Hub

NEPOOL Mass Hub, or ISO-NE Mass Hub, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

NEPOOL North

NEPOOL North, or ISO-NE Maine, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

NEPOOL RI

NEPOOL RI, or ISO-NE Rhode Island, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by ISO-NE on their website www.iso-ne.com.

NY ISO Zone A (West)

NY ISO Zone A, or West Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NYISO Zone B (Genesee)

NYISO Zone B, or Gennesee Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO Zone C (Central)

NY ISO Zone C, or Central Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO Zone D (North)

NY ISO Zone D, or North Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO Zone F (Capital)

NY ISO Zone F, or Capital Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO Zone G (Hudson Val)

NY ISO Zone G, or Hudson Valley Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO H (Milwood)

NYISO H, or MIlwood Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NYISO I (Dunwoodie)

NYISO I , or Dunwoodie Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO Zone J (NYC)

NY ISO Zone J, or New York City Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO Zone K (Long Island)

NY ISO Zone K, or Long Island Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

NY ISO Mohawk Valley Zone (E)

NY ISO Zone E, or Mohawk Valley Zone, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by NYISO on their website www.nyiso.com.

Ontario

The Ontario market and pricing area comprises the grid controlled by Ontario's independent system operator, the Independent Electricity System Operator (IESO).

M2MS-power PJM/MISO region symbols bate code:U)

Location	Location Category	10 Year Symbol	20 Year Symbol	Location	Location Category	10 Year Symbol	20 Year Symbol
AMIL BGS6 Opk	Market	EAMOxyy	EAMQxyy	PJM DAY Pk	Market	EPDMxyy	EPDPxyy
AMIL BGS6 Pk	Market	EAMMxyy	EAMPxyy	PwJM DEOK Opk	Market	EJKOxyy	EJKQxyy
Michigan Opk	Market	EMIOxyy	EMIQxyy	PJM DEOK Pk	Market	EJKMxyy	EJKPxyy
Michigan Pk	Market	EMIMxyy	EMIPxyy	PJM DPL Opk	Market	EJDCxyy	EJDDxyy
Minn Hub Opk	Market	EPMOxyy	EPMQxyy	PJM DPL Pk	Market	EJDAxyy	EJDBxyy
Minn Hub Pk	Market	EPMMxyy	EPMPxyy	PJM Duquesne Opk	Market	EJUCxyy	EJUDxyy
MISO Arkansas Hub Opk	Market	EMACxyy	EMADxyy	PJM Duquesne Pk	Market	EJUAxyy	EJUBxyy
MISO Arkansas Hub Pk	Market	EMAAxyy	EMABxyy	PJM Eastern Hub Opk	Market	EPEOxyy	EPEQxyy
MISO Illinois Hub Opk	Market	EILCxyy	EILDxyy	PJM Eastern Hub Pk	Market	EPEMxyy	EPEPxyy
MISO Illinois Hub Pk	Market	EILAxyy	EILBxyy	PJM FE Ohio Opk	Market	EJHOxyy	EJHQxyy
MISO Indiana Opk	Market	ECIOxyy	ECIQxyy	PJM FE Ohio Pk	Market	EJHMxyy	EJHPxyy
MISO Indiana Pk	Market	ECIMxyy	ECIPxyy	PJM JPCL Zone Opk	Market	EJCOxyy	EJCQxyy
MISO Louisiana Opk	Market	EMLCxyy	EMLDxyy	PJM JPCL Zone Pk	Market	EJCMxyy	EJCPxyy
MISO Louisiana Pk	Market	EMLAxyy	EMLBxyy	PJM METED Opk	Market	EJMCxyy	EJMDxyy
MISO Texas Hub Opk	Market	EMECxyy	EMEDxyy	PJM METED Pk	Market	EJMAxyy	EJMBxyy
MISO Texas Hub Pk	Market	EMEAxyy	EMEBxyy	PJM NI Hub Opk	Market	ECEOxyy	ECEQxyy
PJM AD Hub Opk	Market	EECOxyy	EECQxyy	PJM NI Hub Pk	Market	ECEMxyy	ECEPxyy
PJM AD Hub Pk	Market	EECMxyy	EECPxyy	PJM PECO Zone Opk	Market	EPCOxyy	EPCQxyy
PJM AECO Opk	Market	EJACxyy	EJADxyy	PJM PECO Zone Pk	Market	EPCMxyy	EPCPxyy
PJM AECO Pk	Market	EJAAxyy	EJABxyy	PJM PENELEC Opk	Market	EJNCxyy	EJNDxyy
PJM AEP Opk	Market	EJEOxyy	EJEQxyy	PJM PENELEC Pk	Market	EJNAxyy	EJNBxyy
PJM AEP Pk	Market	EJEMxyy	EJEPxyy	PJM PEPCO Zone Opk	Market	EPPOxyy	EPPQxyy
PJM APS Opk	Market	EJSCxyy	EJSDxyy	PJM PEPCO Zone Pk	Market	EPPMxyy	EPPPxyy
PJM APS Pk	Market	EJSAxyy	EJSBxyy	PJM PPL Zone Opk	Market	EPLOxyy	EPLQxyy
PJM ATSI Opk	Market	EJTOxyy	EJTQxyy	PJM PPL Zone Pk	Market	EPLMxyy	EPLPxyy
PJM ATSI Pk	Market	EJTMxyy	EJTPxyy	PJM PSEG Zone Opk	Market	ESGOxyy	ESGQxyy
PJM BGE Zone Opk	Market	EBGOxyy	EBGQxyy	PJM PSEG Zone Pk	Market	ESGMxyy	ESGPxyy
PJM BGE Zone Pk	Market	EBGMxyy	EBGPxyy	PJM Rockland Electric Zone Opk	Proxy	EJROxyy	EJRQxyy
PJM ComEd Opk	Market	EJOCxyy	EJODxyy	PJM Rockland Electric Zone Pk	Proxy	EJRMxyy	EJRPxyy
PJM ComEd Pk	Market	EJOAxyy	EJOBxyy	PJM Western Hub Opk	Market	EPJOxyy	EPJQxyy
PJM DEOK Opk	Market	EJKOxyy	EJKQxyy	PJM Western Hub Pk	Market	EPJMxyy	EPJPxyy
PJM DAY Opk	Market	EPDOxyy	EPDQxyy	PJM Western Hub Pk	Market	EPJMxyy	EPJPxyy
PJM WH RT HE 1000-1700, 7X	Proxy	EUPMxyy	EUPPxyy	PJM West 2x16	Market	EQJMxyy	EQJPxyy

PJM/MISO Region

Michigan

MISO Michigan Hub is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by Midwest ISO on their website www.misoenergy.com.

MISO AMIL BGS6

MISO AMIL BGS6 is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by Midwest ISO on their website www.misoenergy.com.

MISO Arkansas Hub

MISO Arkansas Hub is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by Midwest ISO on their website www.misoenergy.com.

MISO Illinois Hub

MISO Illinois Hub is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by Midwest ISO on their website www.misoenergy.com.

MISO Indiana Hub

MISO Indiana Hub is based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by Midwest ISO on their website www.misoenergy.com.

MISO Louisiana Hub

MISO Louisiana Hub is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by Midwest ISO on their website www.misoenergy.com.

MISO Minn Hub

MISO Minn Hub is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by Midwest ISO on their website www.misoenergy.com.

MISO Texas Hub

MISO Texas Hub is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by Midwest ISO on their website www.misoenergy.com.

PJM Rockland Electric Zone

Includes Rockland Electric Company's Eastern Division in Bergen County, NJ. Rockland's Eastern Division serves about 400 megawatts of load. It does not include any generating capacity. The division is directly interconnected with facilities controlled by PJM through a 345-kilovolt transmission line. www.pjm.com

PJM AD Hub

PJM AD Hub is based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by PJM on their website www.pjm.com.

PJM AECO

PJM AECO is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM AEP

PJM AEP is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM APS

PJM APS is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM ATSI

PJM ATSI is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM BGE Zone

PJM BGE Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM ComEd

PJM ComEd is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM DAY

PJM DAY is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM DEOK

PJM DEOK is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM DPL

PJM DPL is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM Duquesne

PJM Duquesne is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM Eastern Hub

PJM Eastern Hub is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM FE Ohio

PJM FE Ohio is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM JCPL Zone

PJM JCPL Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM METED

PJM METED is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM NI Hub

PJM NI Hub is based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by PJM on their website www.pjm.com.

PJM PECO Zone

PJM PECO Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM PENELEC

PJM PENELEC is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM PEPCO Zone

PJM PEPCO Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM PPL Zone

PJM PPL Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM PSEG Zone

PJM PSEG Zone is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by PJM on their website www.pjm.com.

PJM Western Hub

PJM Western Hub is based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by PJM on their website www.pjm.com.

PJM West 2x16

PJM West 2x16 is based on the average of the hourly Real-Time LMP for hours ending 08:00-23:00 EPT on Saturday, Sunday and NERC holidays published by PJM on their website www.pjm.com.

PJM WH RT HE 1000-1700, 7X

PJM WH RT HE 1000-1700, 7X is based on the average of the hourly Real-Time LMP for hours ending 10:00-17:00 EPT on Saturday, Sunday and NERC holidays published by PJM on their website www.pjm.com.

M2MS-power Southeast region symbols (bate code:U)

Location	Location Category	10 Year Symbol	20 Year Symbol	Location	Location Category	10 Year Symbol	20 Year Symbol
Florida Opk	Proxy	EFLOxyy	EFLQxyy	Vacar Opk	Proxy	ESVOxyy	ESVQxyy
Florida Pk	Proxy	EFLMxyy	EFLPxyy	Vacar Pk	Proxy	ESVMxyy	ESVPxyy
Into TVA Opk	Proxy	ETVCxyy	ETVDxyy	SPP North Opk	Market	ESNOxyy	ESNQxyy
Into TVA Pk	Proxy	ETVAxyy	ETVBxyy	SPP North Pk	Market	ESNMxyy	ESNPxyy
Into Southern Opk	Proxy	ESTOxyy	ESTQxyy	SPP South Opk	Market	ESWOxyy	ESWQxyy
Into Southern Pk	Proxy	ESTMxyy	ESTPxyy	SPP South Pk	Market	ESWMxyy	ESWPxyy

Southeast Region

Florida

The Florida instate pricing area comprises control areas within the State of Florida or the Florida Reliability Coordination Council (FRPCC), excluding Gulf Power, which is part of the Southern Company control area. Florida control areas include: Progress Energy Florida, Florida Power & Light Company, Tampa Electric Company, Florida Municipal Power Agency, Gainesville Regional Utilities, JEA, City of Lakeland, Orlando Utilities Commission, City of Tallahassee and Seminole Electric Cooperative.

Into Southern

Into Southern comprises power delivered to an interface with or a delivery point within the Southern Company control area, which spans a swath of SERC from Georgia to Mississippi including a portion of the Florida pan handle. (Control area for purposes of this location description is defined to exclude any other entity's transmission system for which the utility acts as the balancing authority.)

Into TVA

Into TVA comprises power delivered to an interface with or a delivery point within the control area of the Tennessee Valley Authority, which includes Tennessee and the northern portion of Alabama. (Control area for the purposes of this location description is defined to exclude any other entity's system for which TVA acts as the balancing authority.)

SPP North

SPP North is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by SPP on their website www.spp.org.

SPP South

SPP South is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by SPP on their website www.spp.org.

VACAR

VACAR comprises the control areas in the Virginia and Carolinas subregion of the Southeastern Electric Reliability Council, including: Progress Energy's Carolina Power and Light east and west, Duke, South Carolina Electric and Gas, Santee Cooper, Southeastern Power Administration and APGI Yadkin Division. Dominion's Virginia Power control area has been excluded since it joined the PJM interconnection on May 1, 2005.

M2MS-power ERCOT region symbols (bate code:U)

Location	Location Category	10 Year Symbol	20 Year Symbol
ERCOT Houston Hub Opk	Market	ETSOxyy	ETSQxyy
ERCOT Houston Hub Pk	Market	ETSMxyy	ETSPxyy
ERCOT Houston 7x8	Market	EQSOxyy	EQSQxyy
ERCOT Houston 2x16	Market	EQSMxyy	EQSPxyy
ERCOT Houston LZ RT Opk	Proxy	EVSOxyy	EVSQxyy
ERCOT Houston LZ RT Pk	Proxy	EVSMxyy	EVSPxyy
ERCOT Houston 345KV Hub RT HE 1800-2200	Proxy	EUJMxyy	EUJPxyy
ERCOT North Hub Opk	Market	ETNOxyy	ETNQxyy
ERCOT North Hub Pk	Market	ETNMxyy	ETNPxyy
ERCOT North 7x8	Market	EQNOxyy	EQNQxyy
ERCOT North 2x16	Market	EQNMxyy	EQNPxyy
ERCOT North LZ RT Opk	Proxy	EVNOxyy	EVNQxyy
ERCOT North LZ RT Pk	Proxy	EVNMxyy	EVNPxyy
ERCOT North 345KV Hub RT HE 1800-2200	Proxy	EUNMxyy	EUNPxyy
ERCOT Panhandle Opk	Market	ETPOxyy	ETPQxyy
ERCOT North 345KV Hub RT HE 1000-1700, 7X	Proxy	EUBMxyy	EUBPxyy
ERCOT Panhandle Pk	Market	ETPMxyy	ETPPxyy
ERCOT Panhandle 7x8	Market	EQPOxyy	EQPQxyy
ERCOT South Hub Opk	Market	ETHOxyy	ETHQxyy
ERCOT South Hub Pk	Market	ETHMxyy	ETHPxyy
ERCOT South 7x8	Market	EQHOxyy	EQHQxyy
ERCOT South 2x16	Market	EQHMxyy	EQHPxyy
ERCOT South LZ RT Opk	Proxy	EVHOxyy	EVHQxyy
ERCOT South LZ RT Pk	Proxy	EVHMxyy	EVHPxyy
ERCOT South 345KV Hub RT HE 1800-2200	Proxy	EUHMxyy	EUHPxyy
ERCOT West Hub Opk	Market	ETWOxyy	ETWQxyy
ERCOT West Hub Pk	Market	ETWMxyy	ETWPxyy
ERCOT West 7x8	Market	EQWOxyy	EQWQxyy
ERCOT West 2x16	Market	EQWMxyy	EQWPxyy
ERCOT West LZ RT Opk	Proxy	EVWOxyy	EVWQxyy
ERCOT West LZ RT Pk	Proxy	EVWMxyy	EVWPxyy
ERCOT West 345KV Hub RT HE 1800-2200	Proxy	EUWMxyy	EUWPxyy

ERCOT Region

ERCOT Houston Hub

ERCOT's Houston aggregate nodal trading hub, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT on their website www.ercot.com.

ERCOT Houston 2X16

ERCOT Houston 2x16 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 07:00-22:00 CPT on Saturday, Sunday and NERC holidays published by ERCOT on their website www.ercot.com.

ERCOT Houston 7x8

ERCOT Houston 7x8 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 01:00-06:00 and 23:00-24:00 CPT on all seven days published by ERCOT on their website www.ercot.com.

ERCOT Houston 345KV Hub RT HE 1800-2200

ERCOT Houston 345KV Hub RT HE 1800-2200 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 1800-2200 CPT on Monday through Friday, excluding NERC holidays, published by ERCOT on their website www.ercot.com.

ERCOT Houston LZ RT

ERCOT Houston Load Zone Real-Time, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT for the location specified on their website www.ercot.com.

ERCOT North Hub

ERCOT's North aggregate nodal trading hub, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT on their website www.ercot.com.

ERCOT North 2X16

ERCOT North 2x16 is based upon the arithmetic average of the

Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 07:00-22:00 CPT on Saturday, Sunday and NERC holidays published by ERCOT on their website www.ercot.com.

ERCOT North 7x8

ERCOT North 7x8 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 01:00-06:00 and 23:00-24:00 CPT on all seven days published by ERCOT on their website www.ercot.com.

ERCOT North 345KV Hub RT HE 1800-2200

ERCOT North 345KV Hub RT HE 1800-2200 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 1800-2200 CPT on Monday through Friday, excluding NERC holidays, published by ERCOT on their website www.ercot.com.

ERCOT North 345KV Hub RT HE 1000-1700, 7X

ERCOT North 345KV Hub RT HE 1000-1700, 7X is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 1000-1700 CPT on all seven days published by ERCOT on their website www.ercot.com

ERCOT North LZ RT

ERCOT North Load Zone Real-Time, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT for the location specified on their website www.ercot.com.

ERCOT Panhandle

ERCOT Panhandle aggregate nodal trading hub, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT on their website www.ercot.com.

ERCOT Panhandle 7x8

ERCOT Panhandle 7x8 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 01:00-06:00 and 23:00-24:00 CPT on all seven days published by ERCOT on their website www.ercot.com.

ERCOT South Hub

ERCOT's South aggregate nodal trading hub, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT on their website www.ercot.com.

ERCOT South 2X16

ERCOT South 2x16 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 07:00-22:00 CPT on Saturday, Sunday and NERC holidays published by ERCOT on their website www.ercot.com.

ERCOT South 7x8

ERCOT South 7x8 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 01:00-06:00 and 23:00-24:00 CPT on all seven days published by ERCOT on their website www.ercot.com.

ERCOT South 345KV Hub RT HE 1800-2200

ERCOT South 345KV Hub RT HE 1800-2200 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 1800-2200 CPT on Monday through Friday, excluding NERC holidays, published by ERCOT on their website www.ercot.com.

ERCOT South LZ RT

ERCOT South Load Zone Real-Time, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT for the location specified on their website www.ercot.com.

ERCOT West Hub

ERCOT's West aggregate nodal trading hub, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT on their website www.ercot.com.

ERCOT West 2X16

ERCOT West 2x16 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours

ending 07:00-22:00 CPT on Saturday, Sunday and NERC holidays published by ERCOT on their website www.ercot.com.

ERCOT West 7x8

ERCOT West 7x8 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by

averaging the applicable strip length reference by the market for hours ending 01:00-06:00 and 23:00-24:00 CPT on all seven days published by ERCOT on their website www.ercot.com.

ERCOT West 345KV Hub RT HE 1800-2200

ERCOT West 345KV Hub RT HE 1800-2200 is based upon the arithmetic average of the Real-Time Settlement Point Prices (SPPs) calculated by averaging the applicable strip length reference by the market for hours ending 1800-2200 CPT on Monday through Friday, excluding NERC holidays, published by ERCOT on their website www.ercot.com.

ERCOT West LZ RT

ERCOT West Load Zone Real-Time, based on the on peak and off peak mathematical averages of the hourly real time LMP prices published by ERCOT for the location specified on their website www.ercot.com.

M2MS-power West region symbols (bate code:U)

Location	Location Category	10 Year Symbol	20 Year Symbol	Location	Location Category	10 Year Symbol	20 Year Symbol
Alberta Opk	Market	EALOxyy	EALQxyy	NOB, Nevada-Oregon Border Opk	Proxy	ENOOxyy	ENOQxyy
Alberta Pk	Market	EALMxyy	EALPxyy	NOB, Nevada-Oregon Border Pk	Proxy	ENOMxyy	ENOPxyy
Calif-Orecon Border Opk	Proxy	ECOOxyy	ECOQxyy	North Path 15 Opk	Market	ENPOxyy	ENPQxyy
Calif-Orecon Border Pk	Proxy	ECOMxyy	ECOPxyy	North Path 15 Pk	Market	ENPMxyy	ENPPxyy
East Colorado Opk	Proxy	EWEOxyy	EWEQxyy	Palo Verde Opk	Market	EPVOxyy	EPVQxyy
East Colorado Pk	Proxy	EWEMxyy	EWEPxyy	Palo Verde Pk	Market	EPVMxyy	EPVPxyy
Four Corners Opk	Proxy	EFCOxyy	EFCQxyy	Pinnacle Peak Opk	Proxy	EPNOxyy	EPNQxyy
Four Corners Pk	Proxy	EFCMxyy	EFCPxyy	Pinnacle Peak Pk	Proxy	EPNMxyy	EPNPxyy
Mead Opk	Proxy	EMDOxyy	EMDQxyy	South Path 15 Opk	Market	ESPOxyy	ESPQxyy
Mead Pk	Proxy	EMDMxyy	EMDPxyy	South Path 15 Pk	Market	ESPMxyy	ESPPxyy
Mid-Columbia Opk	Market	EMCOxyy	EMCQxyy	Utah Opk	Proxy	EUTOxyy	EUTQxyy
Mid-Columbia Pk	Market	EMCMxyy	EMCPxyy	Utah Pk	Proxy	EUTMxyy	EUTPxyy
Alberta AESO Super Peak	Proxy	EASMxyy	EASPxyy				

West Region

Alberta

Alberta is based on the on peak, super peak and off peak mathematical averages of the hourly pool prices published by AESO on their website www.aeso.ca.

California-Oregon Border

California-Oregon Border comprises the Captain Jack and Malin substations on the AC transmission system between Oregon and California.

East Colorado

East Colorado is based on power delivered to the DC tie line in Lamar, Colorado.

Four Corners

Four Corners comprises the switchyard of the coal-fired Four Corners power plant in Fruitland, New Mexico, located in the Northwestern corner of the state where Arizona, Colorado, New Mexico and Utah meet.

Mead

Mead comprises the switchyard at the Hoover Dam on the Colorado River, forming Lake Mead near Las Vegas, Nevada.

Mid-Columbia

Mid-Columbia is a power trading hub for the Northwest U.S. comprising the control areas of three public utility districts in Washington that run hydro electric projects on the Columbia River. The three PUDs are Grant, Douglas and Chelan. Hydro projects include Wells, Rocky Reach, Rock Island, Wanapum and Priest Rapids dams.

NOB, Nevada-Oregon Border

Nevada-Oregon Border is part of the Pacific DC Intertie that connects the Pacific Northwest directly with Southern California. The DC Intertie connects the Celio DC Converter station near The Dalles, Oregon with the Sylmar substation north of Los Angeles, California.

North Path 15

North Path 15, or NP 15, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by CAISO on their website www.caiso.com.

Palo Verde

Palo Verde comprises the switchyard at the Palo Verde nuclear power station west of Phoenix, Arizona.

Pinnacle Peak

Pinnacle Peak comprises three substations northeast of Phoenix, Arizona and west of Scottsdale Arizona. The three substations are operated individually by Arizona Public Service, US Bureau of Reclamation Lower Colorado Region and Salt River Project.

South Path 15

South Path 15, or SP 15, is based on the on peak and off peak mathematical averages of the hourly day ahead LMP prices published by CAISO on their website www.caiso.com.

Utah

Utah, or Mona, comprises the Mona substation in central Utah, directly south of Salt Lake City and linked to major generating units in the region, such as the Intermountain Power Project.

National Package

M2MS-power National package symbols (bate code: U)

Location	Location Category	10 Year Symbol	20 Year Symbol	Location	Location Category	10 Year Symbol	20 Year Symbol
ERCOT Houston OPk	Market	ETSUxyy	ETSRxyy	North Path 15 Opk	Market	ENPUxyy	ENPRxyy
ERCOT Houston Pk	Market	ETSTxyy	ETSSxyy	North Path 15 Pk	Market	ENPTxyy	ENPSxyy
ERCOT North OPk	Market	ETNUxyy	ETNRxyy	NY ISO Zone A (West) Opk	Market	ENAUxyy	ENARxyy
ERCOT North Pk	Market	ETNTxyy	ETNSxyy	NY ISO Zone A (West) Pk	Market	ENATxyy	ENASxyy
ERCOT South OPk	Market	ETHUxyy	ETHRxyy	NY ISO Zone G (Hudson Val) Opk	Market	ENGUxyy	ENGRxyy
ERCOT South Pk	Market	ETHTxyy	ETHSxyy	NY ISO Zone G (Hudson Val) Pk	Market	ENGTxyy	ENGSxyy
ERCOT West OPk	Market	ETWUxyy	ETWRxyy	NY ISO Zone J (NYC) Opk	Market	ENJUxyy	ENJRxyy
ERCOT West Pk	Market	ETWTxyy	ETWSxyy	NY ISO Zone J (NYC) Pk	Market	ENJTxyy	ENJSxyy
Mead Opk	Proxy	EMDUxyy	EMDRxyy	Ontario Opk	Market	EONUxyy	EONRxyy
Mead Pk	Proxy	EMDTxyy	EMDSxyy	Ontario Pk	Market	EONTxyy	EONSxyy
Mid-Columbia Opk	Market	EMCUxyy	EMCRxyy	Palo Verde OPk	Market	EPVUxyy	EPVRxyy
Mid-Columbia Pk	Market	EMCTxyy	EMCSxyy	Palo Verde Pk	Market	EPVTxyy	EPVSxyy
MISO Arkansas OPk	Market	EMAUxyy	EMARxyy	PJM AD Hub Opk	Market	EECUxyy	EECRxyy
MISO Arkansas Pk	Market	EMATxyy	EMASxyy	PJM AD Hub Pk	Market	EECTxyy	EECSxyy
MISO Indiana Opk	Market	ECIUxyy	ECIRxyy	PJM NI Hub Opk	Market	ECEUxyy	ECEBxyy
MISO Indiana Pk	Market	ECITxyy	ECISxyy	PJM NI Hub Pk	Market	ECETxyy	ECESxyy
MISO Louisiana OPk	Market	EMLUxyy	EMLRxyy	PJM Western Hub Opk	Market	EPJUxyy	EPJRxyy
MISO Louisiana Pk	Market	EMLTxyy	EMLSxyy	PJM Western Hub Pk	Market	EPJTxyy	EPJSxyy
MISO Texas OPk	Market	EMEUxyy	EMERxyy	South Path 15 Opk	Market	ESPUxyy	ESPRxyy
MISO Texas Pk	Market	EMETxyy	EMESxyy	South Path 15 Pk	Market	ESPTxyy	ESPSxyy
NEPOOL Mass Hub Opk	Market	EMHUxyy	EMHRxyy	SPP South Opk	Market	ESTUxyy	ESTRxyy
NEPOOL Mass Hub Pk	Market	EMHTxyy	EMHSxyy	SPP South Pk	Market	ESTTxyy	ESTSxyy

Canada Package

Canada package symbols (bate code:U)

Location	Location Category	10 Year Symbol	20 Year Symbol	Location	Location Category	10 Year Symbol	20 Year Symbol
Alberta_Peak_CAD_MWH	Market	CAMMxyy	CAMPxyy	Ontario_Peak_CAD_MWH	Market	CONMxyy	CONPxyy
Alberta_OffPeak_CAD_MWH	Market	CALMxyy	CALQxyy	Ontario_OffPeak_CAD_MWH	Market	CONOxyy	CONQxyy
Alberta AESO Super Peak_ CAD_MWH	Proxy	CASMxyy	CASPxyy				

Heat Rate Hub Pairs

Heat rate hub pairs

Power Hub Name	Gas Hub 1	OffPeak Symbol	Peak Symbol	Gas Hub 2	OffPeak Symbol	Peak Symbol
Northeast Region						
ISO-NE NE-Mass	Algonquin CG	IMAYxyy	IMCYxyy	Henry Hub	IMOYxyy	IMMYxyy
ISO-NE New Hampshire	Algonquin CG	IHAYxyy	IHCYxyy	Henry Hub	IHOYxyy	IHMYxyy
ISO-NE Salisbury Node NB 345	Algonquin CG	IHAYxyy	IHCYxyy	Henry Hub	SAOYxyy	SAMYxyy
ISO-NE SE-Mass	Algonquin CG	SAAYxyy	SACYxyy	Henry Hub	INOYxyy	INMYxyy
ISONE Vermont Zone	Algonquin CG	IVAYxyy	IVCYxyy	Henry Hub	IVOYxyy	IVMYxyy
ISO-NE W Central Mass	Algonquin CG	ICAYxyy	ICCYxyy	Henry Hub	ICOYxyy	ICMYxyy
NEPOOL Connecticut	Iroquois Zn2	NCAYxyy	NCCYxyy	Henry Hub	NCOYxyy	NCMYxyy
NEPOOL Mass Hub	Algonquin CG	MHAYxyy	MHCYxyy	Henry Hub	MHOYxyy	MHMYxyy
NEPOOL North	Algonquin CG	NNAYxyy	NNCYxyy	Henry Hub	NNOYxyy	NNMYxyy
NEPOOL RI	Algonquin CG	NEAYxyy	NECYxyy	Henry Hub	NEOYxyy	NEMYxyy
NY ISO Zone A (West)	Niagara	WNAYxyy	WNCYxyy	Henry Hub	WNOYxyy	WNMYxyy
NY ISO Zone B (Genesee)	Tenn Z4-300 leg	NGAYxyy	NGCYxyy	Henry Hub	NGOYxyy	NGMYxyy
NY ISO Zone C (Central)	Niagara	NSAYxyy	NSCYxyy	Henry Hub	NSOYxyy	NSMYxyy
NY ISO Zone D (North)	Iroquois Receipts	NDAYxyy	NDCYxyy	Henry Hub	NDOYxyy	NDMYxyy
NY ISO Zone E (Mohawk Valley)	Transco Zn6 NY	NMAYxyy	NMCYxyy	Henry Hub	NMOYxyy	NMMYxyy
NY ISO Zone F (Capital)	Transco Zn6 NY	NFAYxyy	NFCYxyy	Henry Hub	NFOYxyy	NFMYxyy
NY ISO Zone G (Hudson Val)	Iroquois Zn2	EACYxyy	EAAYxyy	Henry Hub	EAOYxyy	EAMYxyy
NY ISO Zone H (Milwood)	Transco Zn6 NY	NHAYxyy	NHCYxyy	Henry Hub	NHOYxyy	NHMYxyy
NY ISO Zone I (Dunwoodie)	Transco Zn6 NY	NWAYxyy	NWCYxyy	Henry Hub	NWOYxyy	NWMYxyy
NY ISO Zone J (NYC)	Transco Zn6 NY	EYAYxyy	EYCYxyy	Henry Hub	EYOYxyy	EYMYxyy
NY ISO Zone K (Long Island)	Transco Zn6 NY	LIAYxyy	LICYxyy	Henry Hub	LIOYxyy	LIMYxyy
Ontario	Dawn Ontario	ONAYxyy	ONCYxyy	Henry Hub	ONOYxyy	ONMYxyy
PJM/MISO Region						
AMIL BGS6	Chicago CG	ANAYxyy	ANCYxyy	Henry Hub	ANOYxyy	ANMYxyy
Michigan	Mich Con CG	MGAYxyy	MGCYxyy	Henry Hub	MGOYxyy	MGMYxyy
MISO Arkansas Hub	Enable Gas E	AKAYxyy	AKCYxyy	Henry Hub	AKOYxyy	AKMYxyy
MISO Illinois Hub	Chicago CG	MIAYxyy	MICYxyy	Henry Hub	MIOYxyy	MIMYxyy
MISO Indiana Hub	Chicago CG	IDAYxyy	IDCYxyy	Henry Hub	IDOYxyy	IDMYxyy
MISO Louisiana Hub	Col Gulf LA	LAAYxyy	LACYxyy	Henry Hub	LAOYxyy	LAMYxyy
MISO Minn Hub	Nrthrn Ventura	MNAYxyy	MNCYxyy	Henry Hub	MNOYxyy	MNMYxyy
MISO Texas Hub	NGPL Texok Zn	TXAYxyy	TXCYxyy	Henry Hub	TXOYxyy	TXMYxyy
PJM AD Hub	Mich Con CG	ATAYxyy	ATCYxyy	Henry Hub	ATOYxyy	ATMYxyy
PJM AECO	Transco Zn6 xNY	AEAYxyy	AECYxyy	Henry Hub	AEOYxyy	AEMYxyy
PJM AEP	Dominion S Pt	EPAYxyy	EPCYxyy	Henry Hub	EPOYxyy	EPMYxyy

Heat rate hub pairs

Power Hub Name	Gas Hub 1	OffPeak Symbol	Peak Symbol	Gas Hub 2	OffPeak Symbol	Peak Symbol
PJM APS	Col Gas Appal	APAYxyy	APCYxyy	Henry Hub	APOYxyy	APMYxyy
PJM ATSI	Dominion S Pt	PAAYxyy	PACYxyy	Henry Hub	PAOYxyy	PAMYxyy
PJM BGE Zone	TX Eastern M-3	PBAYxyy	PBCYxyy	Henry Hub	PBOYxyy	PBMYxyy
PJM ComEd	Chicago CG	PCAYxyy	PCCYxyy	Henry Hub	PCOYxyy	PCMYxyy
PJM DAY	Eastern Gas, South	DAAYxyy	DACYxyy	Henry Hub	DAOYxyy	DAMYxyy
PJM DEOK	Dominion S Pt	DEAYxyy	DECYxyy	Henry Hub	DEOYxyy	DEMYxyy
PJM DPL	TX Eastern M-3	DPAYxyy	DPCYxyy	Henry Hub	DPOYxyy	DPMYxyy
PJM Duquesne	Dominion S Pt	PDAYxyy	PDCYxyy	Henry Hub	PDOYxyy	PDMYxyy
PJM Eastern Hub	TX Eastern M-3	PEAYxyy	PECYxyy	Henry Hub	PEOYxyy	PEMYxyy
PJM FE Ohio	Dominion S Pt	POAYxyy	POCYxyy	Henry Hub	POOYxyy	POMYxyy
PJM JCPL Zone	Transco Zn6 xNY	JCAYxyy	JCCYxyy	Henry Hub	JCOYxyy	JCMYxyy
PJM METED	TX Eastern M-3	PJAYxyy	PJCYxyy	Henry Hub	PJOYxyy	PJMYxyy
PJM NI Hub	Chicago CG	NIAYxyy	NICYxyy	Henry Hub	NIOYxyy	NIMYxyy
PJM PECO Zone	TX Eastern M-3	PZAYxyy	PZCYxyy	Henry Hub	PZOYxyy	PZMYxyy
PJM PENELEC	Transco Leidy Line	PPAYxyy	PPCYxyy	Henry Hub	PPOYxyy	PPMYxyy
PJM PEPCO Zone	Transco Zn5 Dlv	PTAYxyy	PTCYxyy	Henry Hub	PTOYxyy	PTMYxyy
PJM PPL Zone	Transco Leidy Line	PLAYxyy	PLCYxyy	Henry Hub	PLOYxyy	PLMYxyy
PJM PSEG Zone	TX Eastern M-3	PSAYxyy	PSCYxyy	Henry Hub	PSOYxyy	PSMYxyy
PJM Rockland Electric Zone	Millenium East Receipts	RKAYxyy	RKCYxyy	Henry Hub	RKOYxyy	RKMYxyy
PJM Western Hub	TX Eastern M-3	PWAYxyy	PWCYxyy	Henry Hub	PWOYxyy	PWMYxyy
Southeast Region						
Florida	FL Gas Zn3	FLAYxyy	FLCYxyy	Henry Hub	FLOYxyy	FLMYxyy
Into Southern	Transco Zn4	ISAYxyy	ISCYxyy	Henry Hub	ISOYxyy	ISMYxyy
Into TVA	TETCO M1	ITAYxyy	ITCYxyy	Henry Hub	ITOYxyy	ITMYxyy
SPP North	Nrthrn Ventura	SNAYxyy	SNCYxyy	Henry Hub	SNOYxyy	SNMYxyy
SPP South	Panhandle TX-OK	SSAYxyy	SSCYxyy	Henry Hub	SSOYxyy	SSMYxyy
Vacar	Transco Zn5 Dlv	SVAYxyy	SVCYxyy	Henry Hub	SVOYxyy	SVMYxyy
ERCOT Region						
ERCOT Houston Hub	Houston ShipChl	EHAYxyy	EHCYxyy	Henry Hub	EHOYxyy	EHMYxyy
ERCOT North Hub	TX Eastern E TX	ENAYxyy	ENCYxyy	Henry Hub	ENOYxyy	ENMYxyy
ERCOT Panhandle	Waha	RPAYxyy	RPCYxyy	Henry Hub	RPOYxyy	RPMYxyy
ERCOT South Hub	Tenn Zn0	ESAYxyy	ESCYxyy	Henry Hub	ESOYxyy	ESMYxyy
ERCOT West Hub	Waha	EWAYxyy	EWCYxyy	Henry Hub	EWOYxyy	EWMYxyy

Heat rate hub pairs

Power Hub Name	Gas Hub 1	OffPeak Symbol	Peak Symbol	Gas Hub 2	OffPeak Symbol	Peak Symbol
West Region						
Alberta	TC Alb AECO-C	ALAYxyy	ALCYxyy	Henry Hub	ALOYxyy	ALMYxyy
Calif-Oregon Border	PG&E Malin	COAYxyy	COCYxyy	Henry Hub	COOYxyy	COMYxyy
East Colorado	CHEYENNE	WEAYxyy	WECYxyy	Henry Hub	WEOYxyy	WEMYxyy
Four Corners	El Paso SanJuan	FCAYxyy	FCCYxyy	Henry Hub	FCOYxyy	FCMYxyy
Mead	SoCal Gas	MEAYxyy	MECYxyy	Henry Hub	MEOYxyy	MEMYxyy
Mid-Columbia	NW Can Bd Sumas	MCAYxyy	MCCYxyy	Henry Hub	MCOYxyy	MCMYxyy
Nevada Oregon Border	Stanfield OR	NBAYxyy	NBCYxyy	Henry Hub	NBOYxyy	NBMYxyy
North Path 15	PG&E CG	NPAYxyy	NPCYxyy	Henry Hub	NPOYxyy	NPMYxyy
Palo Verde	SoCal Gas	PVAYxyy	PVCYxyy	Henry Hub	PVOYxyy	PVMYxyy
Pinnacle Peak	SoCal Gas	PKAYxyy	PKCYxyy	Henry Hub	PKOYxyy	PKMYxyy
South Path 15	SoCal Gas	SPAYxyy	SPCYxyy	Henry Hub	SPOYxyy	SPMYxyy
Utah	KERN RIVER OPAL	WUAYxyy	WUCYxyy	Henry Hub	WUOYxyy	WUMYxyy
National Package						
ERCOT Houston Hub	Houston ShipChl	EHAZxyy	EHCZxyy	Henry Hub	EHOZxyy	EHMZxyy
ERCOT North Hub	TX Eastern E TX	ENAZxyy	ENCZxyy	Henry Hub	ENOZxyy	ENMZxyy
ERCOT South Hub	Tenn Zn0	ESAZxyy	ESCZxyy	Henry Hub	ESOZxyy	ESMZxyy
ERCOT West Hub	Waha	EWAZxyy	EWCZxyy	Henry Hub	EWOZxyy	EWMZxyy
Into Southern	Transco Zn4	ISAZxyy	ISCZxyy	Henry Hub	ISOZxyy	ISMZxyy
Mead	SoCal Gas	MEAZxyy	MECZxyy	Henry Hub	MEOZxyy	MEMZxyy
Mid-Columbia	NW Can Bd Sumas	MCAZxyy	MCCZxyy	Henry Hub	MCOZxyy	MCMZxyy
MISO Arkansas Hub	Enable Gas E	AKAZxyy	AKCZxyy	Henry Hub	AKOZxyy	AKMZxyy
MISO Indiana Hub	Chicago CG	IDAZxyy	IDCZxyy	Henry Hub	IDOZxyy	IDMZxyy
MISO Louisiana Hub	Col Gulf LA	LAAZxyy	LACZxyy	Henry Hub	LAOZxyy	LAMZxyy
MISO Texas Hub	NGPL Texok Zn	TXAZxyy	TXCZxyy	Henry Hub	TXOZxyy	TXMZxyy
NEPOOL Mass Hub	Algonquin CG	MHAZxyy	MHCZxyy	Henry Hub	MHOZxyy	MHMZxyy
North Path 15	PG&E CG	NPAZxyy	NPCZxyy	Henry Hub	NPOZxyy	NPMZxyy
NY ISO Zone A (West)	Niagara	WNAZxyy	WNCZxyy	Henry Hub	WNOZxyy	WNMZxyy
NY ISO Zone G (Hudson Val)	Iroquois Zn2	EACZxyy	EAAZxyy	Henry Hub	EAOZxyy	EAMZxyy
NY ISO Zone J (NYC)	Transco Zn6 NY	EYAZxyy	EYCZxyy	Henry Hub	EYOZxyy	EYMZxyy
Ontario	Dawn Ontario	ONAZxyy	ONCZxyy	Henry Hub	ONOZxyy	ONMZxyy
Palo Verde	SoCal Gas	PVAZxyy	PVCZxyy	Henry Hub	PVOZxyy	PVMZxyy
PJM AD Hub	Mich Con CG	ATAZxyy	ATCZxyy	Henry Hub	ATOZxyy	ATMZxyy
PJM NI Hub	Chicago CG	NIAZxyy	NICZxyy	Henry Hub	NIOZxyy	NIMZxyy
PJM Western Hub	TX Eastern M-3	PWAZxyy	PWCZxyy	Henry Hub	PWOZxyy	PWMZxyy
South Path 15	SoCal Gas	SPAZxyy	SPCZxyy	Henry Hub	SPOZxyy	SPMZxyy

Power Curve Codes

10 Year	Northeast Curve Codes	20 Year
CN0EY	East NY ZnG OPk	CN0S1
CN0EX	East NY ZnG Pk	CN0S2
CN0F2	East NY ZnJ OPk	CN0S3
CN0F1	East NY ZnJ Pk	CN0S4
CN0F6	ISO-NE NE-Mass OPk	CN0SA
CN0F5	ISO-NE NE-Mass Pk	CN0SB
CN0EI	ISO-NE New Hampshire OPk	CN0IO
CN0EH	ISO-NE New Hampshire Pk	CN0IN
CN0FG	ISO-NE Salisbury Node NB345 OPk	CN0SC
CN0FF	ISO-NE Salisbury Node NB345 Pk	CN0SD
CN0FI	ISO-NE SE-Mass OPk	CN0SE
CN0FH	ISO-NE SE-Mass Pk	CN0SF
CN0FK	ISONE Vermont Zone OPk	CN0SG
CN0FJ	ISONE Vermont Zone Pk	CN0SH
CN0EM	ISO-NE W Central Mass OPk	CN0SI
CN0EL	ISO-NE W Central Mass Pk	CN0SJ
CN0DU	Mass Hub OPk	CN0DW
CN0DT	Mass Hub Pk	CN0DV
CN0ES	NEPOOL CT OPk	CN0SK
CN0ER	NEPOOL CT Pk	CN0SL
CN0F8	NEPOOL N OPk	CN0SM
CN0F7	NEPOOL N Pk	CN0SN
CN0FA	NEPOOL RI OPk	CN0SO
CN0F9	NEPOOL RI Pk	CN0SP
CN0F4	NY ISO ZnK OPk	CN0SR
CN0F3	NY ISO ZnK Pk	CN0SS
CN0EQ	NYISO B Genesee Zone OPk	CN0ST
CN0EP	NYISO B Genesee Zone Pk	CN0SU
CN0EE	NYISO C OPk	CN0IK
CN0ED	NYISO C Pk	CN0IJ
CN0EU	NYISO D OPk	CN0SV
CN0ET	NYISO D Pk	CN0SW
CN0EG	NYISO F OPk	CN0IM
CN0EF	NYISO F Pk	CN0IL
CN0F0	NYISO H Millwood Zone OPk	CN0SX
CN0EZ	NYISO H Millwood Zone Pk	CN0SY
CN0EK	NYISO I Dunwood Zone OPk	CN0IQ
CN0EJ	NYISO I Dunwood Zone Pk	CN0IP
CN0EW	NYISO Mohawk Valley Zone OPk	CN0SZ
CN0EV	NYISO Mohawk Valley Zone Pk	CN0T0
CN0FC	Ontario OPk	CN0T2
CN0FB	Ontario Pk	CN0T3
CN0FE	PJM West Northeast OPk	CN0T5
CN0FD	PJM West Northeast Pk	CN0T6
CN0EO	West NY ZnA OPk	CN0T8
CN0EN	West NY ZnA Pk	CN0T9

10 Year	Ercot Curve Codes	20 Year
CN4AE	ERCOT Houston 2X16 M2MS Pk	CN3A6
CN3FV	ERCOT Houston 345KV Hub RT HE 1800-2200 M2MS Pk	CN3FU
CN4AF	ERCOT Houston 7x8 M2MS Opk	CN3A7
CN3G4	ERCOT Houston LZ RT M2MS Opk	CN3G5
CN3G3	ERCOT Houston LZ RT M2MS Pk	CN3G2
CN0HF	ERCOT Houston OPk	CN0MN
CN0HE	ERCOT Houston Pk	CN0MM
CN4AG	ERCOT North 2X16 M2MS Pk	CN3A8
CN3FX	ERCOT North 345KV Hub RT HE 1800-2200 M2MS Pk	CN3FW
CN4AH	ERCOT North 7x8 M2MS Opk	CN3A9
CN3G8	ERCOT North LZ RT M2MS Opk	CN3G9
CN3G7	ERCOT North LZ RT M2MS Pk	CN3G6
CN0HD	ERCOT North OPk	CN0ML
CN0HC	ERCOT North Pk	CN0MK
CN4AI	ERCOT Panhandle 7x8 M2MS Opk	CN3AA
CN4AJ	ERCOT Panhandle M2MS Opk	CN3AB
CN4AK	ERCOT Panhandle M2MS Pk	CN3AC
CN4AL	ERCOT South 2X16 M2MS Pk	CN3AD
CN3FZ	ERCOT South 345KV Hub RT HE 1800-2200 M2MS Pk	CN3FY
CN4AM	ERCOT South 7x8 M2MS Opk	CN3AE
CN3GC	ERCOT South LZ RT M2MS Opk	CN3GD
CN3GB	ERCOT South LZ RT M2MS Pk	CN3GA
CN0HB	ERCOT South OPk	CN0MJ
CN0HA	ERCOT South Pk	CN0MI
CN4AN	ERCOT West 2X16 M2MS Pk	CN3AF
CN3G1	ERCOT West 345KV Hub RT HE 1800-2200 M2MS Pk	CN3G0
CN4AP	ERCOT West 7x8 M2MS Opk	CN4AO
CN3GG	ERCOT West LZ RT M2MS Opk	CN3GH
CN3GF	ERCOT West LZ RT M2MS Pk	CN3GE
CN0HH	ERCOT West OPk	CN0MP
CN0HG	ERCOT West Pk	CN0MO

10 Year	Canada (C$/MWh) Curve Codes	20 Year
CN3JF	AESO Super Peak	CN3JG
CN3JB	Alberta M2MS Off-Peak	CN3JC
CN3JD	Alberta M2MS Peak	CN3JE
CN3JH	Ontario Off-Peak	CN3JI
CN3JJ	Ontario Peak	CN3JK

10 Year	Southeast/SPP Curve Codes	20 Year
CN0HK	Florida OPk	CN0MS
CN0HJ	Florida Pk	CN0MR
CN0HO	INTO SOUTHERN OPk	CN0MX
CN0MW	INTO SOUTHERN Pk	CN0MV
CN0HU	Into TVA OPk	CN0N4
CN0HT	Into TVA Pk	CN0N3
CN0HQ	SERC Vacar OPk	CN0N0
CN0HP	SERC Vacar Pk	CN0MZ
CN0HM	SPP North OPk	CN0MU
CN0HL	SPP North Pk	CN0MT
CN0HS	SPP South OPk	CN0N2
CN0HR	SPP South Pk	CN0N1

10 Year	West Curve Codes	20 Year
CN0HW	Alberta OPk	CN0N6
CN0HV	Alberta Pk	CN0N5
CN0HY	CA-OR Border OPk	CN0N8
CN0HX	CA-OR Border Pk	CN0N7
CN0I0	Four Corners OPk	CN0NA
CN0HZ	Four Corners Pk	CN0N9
CN0I4	Mead OPk	CN0NE
CN0I3	Mead Pk	CN0ND
CN0I2	Mid-Col OPk	CN0NC
CN0I1	Mid-Col Pk	CN0NB
CN0I6	NOB OPk	CN0NG
CN0I5	NOB Pk	CN0NF
CN0I8	North Path 15 OPk	CN0NI
CN0I7	North Path 15 Pk	CN0NH
CN0IC	Palo Verde OPk	CN0NM
CN0IB	Palo Verde Pk	CN0NL
CN0IA	Pinnacle Peak OPk	CN0NK
CN0I9	Pinnacle Peak Pk	CN0NJ
CN0IE	South Path 15 OPk	CN0NO
CN0ID	South Path 15 Pk	CN0NN
CN0II	WECC E CO OPk	CN0NS
CN0IH	WECC E CO Pk	CN0NR
CN0IG	WECC UT OPk	CN0NQ
CN0IF	WECC UT Pk	CN0NP

Power Curve Codes (continued)

10 Year	PJM/MISO Curve Codes	20 Year
CN0FS	AEP-Dayton OPk	CN0L0
CN0FR	AEP-Dayton Pk	CN0KZ
CN4AC	AMIL BGS6 M2MS Opk	CN3A4
CN4AD	AMIL BGS6 M2MS Pk	CN3A5
CN0FQ	Indiana Hub OPk	CN0KY
CN0FP	Indiana Hub Pk	CN0KX
CN0H4	MAPP MN OPk	CN0MC
CN0H3	MAPP MN Pk	CN0MB
CN0GQ	Michigan OPk	CN0LY
CN0GP	Michigan Pk	CN0LX
CN0GM	MISO Arkansas Hub OPk	CN0LU
CN0GL	MISO Arkansas Hub Pk	CN0LT
CN0FU	MISO Illinois Hub OPk	CN0L2
CN0FT	MISO Illinois Hub Pk	CN0L1
CN0GS	MISO Louisiana Hub OPk	CN0M0
CN0GR	MISO Louisiana Hub Pk	CN0LZ
CN0GO	MISO Texas Hub OPk	CN0LW
CN0GN	MISO Texas Hub Pk	CN0LV
CN0FO	NI Hub OPk	CN0KW
CN0FN	NI Hub Pk	CN0KV
CN0FW	PJM AECO OPk	CN0L4
CN0FV	PJM AECO Pk	CN0L3
CN0G2	PJM AEP OPk	CN0LA
CN0G1	PJM AEP Pk	CN0L9
CN0GG	PJM APS OPk	CN0LO
CN0GF	PJM APS Pk	CN0LN
CN0GI	PJM ATSI OPk	CN0LQ
CN0GH	PJM ATSI Pk	CN0LP
CN0FM	PJM BGE Zone OPk	CN0KU
CN0FL	PJM BGE Zone Pk	CN0KT
CN0GC	PJM ComEd OPk	CN0LK
CN0GB	PJM ComEd Pk	CN0LJ
CN4AQ	PJM DAY M2MS Opk	CN3AH

10 Year	PJM/MISO Curve Codes	20 Year
CN4AR	PJM DAY M2MS Pk	CN3AI
CN0G6	PJM DEOK OPk	CN0LE
CN0G5	PJM DEOK Pk	CN0LD
CN0U5	PJM Dominion Hub Opk	CN0U7
CN0U4	PJM Dominion Hub Pk	CN0U6
CN0G0	PJM DPL OPk	CN0L8
CN0FZ	PJM DPL Pk	CN0L7
CN0GK	PJM Duquesne OPk	CN0LS
CN0GJ	PJM Duquesne Pk	CN0LR
CN0GY	PJM East OPk	CN0M6
CN0GX	PJM East Pk	CN0M5
CN0G4	PJM FE Ohio OPk	CN0LC
CN0G3	PJM FE Ohio Pk	CN0LB
CN0FY	PJM JCPL Zone OPk	CN0L6
CN0FX	PJM JCPL Zone Pk	CN0L5
CN0G8	PJM METED OPk	CN0LG
CN0G7	PJM METED Pk	CN0LF
CN0GW	PJM PECO Zone OPk	CN0M4
CN0GV	PJM PECO Zone Pk	CN0M3
CN0GA	PJM PENELEC OPk	CN0LI
CN0G9	PJM PENELEC Pk	CN0LH
CN0H6	PJM PEPCO Zone OPk	CN0ME
CN0H5	PJM PEPCO Zone Pk	CN0MD
CN0H2	PJM PPL Zone OPk	CN0MA
CN0H1	PJM PPL Zone Pk	CN0M9
CN0H8	PJM PSEG Zone OPk	CN0MG
CN0H7	PJM PSEG Zone Pk	CN0MF
CN0GE	PJM Rockland Electric Zone OPk	CN0LM
CN0GD	PJM Rockland Electric Zone Pk	CN0LL
CN4AS	PJM West 2X16 M2MS Pk	CN3AJ
CN0H0	PJM West OPk	CN0M8
CN0GZ	PJM West Pk	CN0M7

Baseload Symbols

	CAISO NP15 Baseload	CAISO SP15 Baseload	ERCOT North Baseload	ERCOT South Baseload	ERCOT West Baseload	MISO Indiana Hub Baseload	MISO Louisiana Hub Baseload	MISO Michigan Hub Baseload	MISO Minnesota Hub Baseload	PJM AD Hub Baseload	PJM Dominion Hub Baseload	PJM Northern Illinois Hub Baseload	PJM West Hub Baseload	SPP North Hub Baseload	SPP South Hub Baseload
Year 1	ENPPY01	ESPPY01	ETNPY01	ETHPY01	ETWPY01	ECIPY01	EMLPY01	EMIPY01	EPMPY01	EECPY01	EDMPY01	ECEPY01	EPJPY01	ESNPY01	ESWPY01
Year 2	ENPPY02	ESPPY02	ETNPY02	ETHPY02	ETWPY02	ECIPY02	EMLPY02	EMIPY02	EPMPY02	EECPY02	EDMPY02	ECEPY02	EPJPY02	ESNPY02	ESWPY02
Year 3	ENPPY03	ESPPY03	ETNPY03	ETHPY03	ETWPY03	ECIPY03	EMLPY03	EMIPY03	EPMPY03	EECPY03	EDMPY03	ECEPY03	EPJPY03	ESNPY03	ESWPY03
Year 4	ENPPY04	ESPPY04	ETNPY04	ETHPY04	ETWPY04	ECIPY04	EMLPY04	EMIPY04	EPMPY04	EECPY04	EDMPY04	ECEPY04	EPJPY04	ESNPY04	ESWPY04
Year 5	ENPPY05	ESPPY05	ETNPY05	ETHPY05	ETWPY05	ECIPY05	EMLPY05	EMIPY05	EPMPY05	EECPY05	EDMPY05	ECEPY05	EPJPY05	ESNPY05	ESWPY05
Year 6	ENPPY06	ESPPY06	ETNPY06	ETHPY06	ETWPY06	ECIPY06	EMLPY06	EMIPY06	EPMPY06	EECPY06	EDMPY06	ECEPY06	EPJPY06	ESNPY06	ESWPY06
Year 7	ENPPY07	ESPPY07	ETNPY07	ETHPY07	ETWPY07	ECIPY07	EMLPY07	EMIPY07	EPMPY07	EECPY07	EDMPY07	ECEPY07	EPJPY07	ESNPY07	ESWPY07
Year 8	ENPPY08	ESPPY08	ETNPY08	ETHPY08	ETWPY08	ECIPY08	EMLPY08	EMIPY08	EPMPY08	EECPY08	EDMPY08	ECEPY08	EPJPY08	ESNPY08	ESWPY08
Year 9	ENPPY09	ESPPY09	ETNPY09	ETHPY09	ETWPY09	ECIPY09	EMLPY09	EMIPY09	EPMPY09	EECPY09	EDMPY09	ECEPY09	EPJPY09	ESNPY09	ESWPY09
Year 10	ENPPY10	ESPPY10	ETNPY10	ETHPY10	ETWPY10	ECIPY10	EMLPY10	EMIPY10	EPMPY10	EECPY10	EDMPY10	ECEPY10	EPJPY10	ESNPY10	ESWPY10
Year 11	ENPPY11	ESPPY11	ETNPY11	ETHPY11	ETWPY11	ECIPY11	EMLPY11	EMIPY11	EPMPY11	EECPY11	EDMPY11	ECEPY11	EPJPY11	ESNPY11	ESWPY11
Year 12	ENPPY12	ESPPY12	ETNPY12	ETHPY12	ETWPY12	ECIPY12	EMLPY12	EMIPY12	EPMPY12	EECPY12	EDMPY12	ECEPY12	EPJPY12	ESNPY12	ESWPY12
Year 13	ENPPY13	ESPPY13	ETNPY13	ETHPY13	ETWPY13	ECIPY13	EMLPY13	EMIPY13	EPMPY13	EECPY13	EDMPY13	ECEPY13	EPJPY13	ESNPY13	ESWPY13
Year 14	ENPPY14	ESPPY14	ETNPY14	ETHPY14	ETWPY14	ECIPY14	EMLPY14	EMIPY14	EPMPY14	EECPY14	EDMPY14	ECEPY14	EPJPY14	ESNPY14	ESWPY14
Year 15	ENPPY15	ESPPY15	ETNPY15	ETHPY15	ETWPY15	ECIPY15	EMLPY15	EMIPY15	EPMPY15	EECPY15	EDMPY15	ECEPY15	EPJPY15	ESNPY15	ESWPY15
Year 16	ENPPY16	ESPPY16	ETNPY16	ETHPY16	ETWPY16	ECIPY16	EMLPY16	EMIPY16	EPMPY16	EECPY16	EDMPY16	ECEPY16	EPJPY16	ESNPY16	ESWPY16
Year 17	ENPPY17	ESPPY17	ETNPY17	ETHPY17	ETWPY17	ECIPY17	EMLPY17	EMIPY17	EPMPY17	EECPY17	EDMPY17	ECEPY17	EPJPY17	ESNPY17	ESWPY17
Year 18	ENPPY18	ESPPY18	ETNPY18	ETHPY18	ETWPY18	ECIPY18	EMLPY18	EMIPY18	EPMPY18	EECPY18	EDMPY18	ECEPY18	EPJPY18	ESNPY18	ESWPY18
Year 19	ENPPY19	ESPPY19	ETNPY19	ETHPY19	ETWPY19	ECIPY19	EMLPY19	EMIPY19	EPMPY19	EECPY19	EDMPY19	ECEPY19	EPJPY19	ESNPY19	ESWPY19
Year 20	ENPPY20	ESPPY20	ETNPY20	ETHPY20	ETWPY20	ECIPY20	EMLPY20	EMIPY20	EPMPY20	EECPY20	EDMPY20	ECEPY20	EPJPY20	ESNPY20	ESWPY20
Year 21	ENPPY21	ESPPY21	ETNPY21	ETHPY21	ETWPY21	ECIPY21	EMLPY21	EMIPY21	EPMPY21	EECPY21	EDMPY21	ECEPY21	EPJPY21	ESNPY21	ESWPY21

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Revision history

January 2026: Edited to add baseload summary and symbols for select hubs (for US PPA assessments)

September 2025: Updated package and curve count. Updated 20 year curve publishing frequency.

December 2024: Edited to add Alberta AESO Super Peak, PJM WH RT HE 1000-1700, 7X, ERCOT North 345KV Hub RT HE 1000-1700, 7X and 5 Canada package CAD/MWH unit etc. 8 products under the curve coverage.

June 2024: Edited to add ERCOT 345KV Hub RT HE 1800-2200 and ERCOT LZ RT peak and off peak 12 products under the curve coverage.

June 2022: Edited to add ERCOT Panhandle, PJM DAY, AMIL BGS6 and series of Ercot 2x16 and 7x8 products under the curve coverage.

May 2018: Simplified symbol tables. Added National Package symbols. Corrected Heat Rate Hub Pairs and added symbols.

January 2018: Edited to add ISO-NE Salisbury Node 345.

February 2017: Platts revamped this Methodology And Specifications Guide effective February 2017. This revision was completed to remove reference to the following discontinued products: 10 & 20 year historical volatility curves (which are being replaced by implied volatility curves), spark spreads and correlation curves. This revision was also completed to include coverage changes to the M2MS-Power product. Specifically, 6 hubs were added to bring the total number of hubs covered to 72.

November 2015: Platts revised this Methodology and Specifications Guide effective November 2015. This revision was completed to include coverage and definition changes to the M2MS-Power product – 5 location additions, 1 location name change, and 5 location discontinuations. This revised guide also reflects a balance of the month definition.

April 2015: Platts revamped this Methodology And Specifications Guide effective March 2015.This revamp was completed to enhance the clarity and usefulness of the guide, and to introduce greater consistency of layout and structure across all published methodology guides. Methodologies for market coverage were not changed through this revamp, unless specifically noted in the methodology guide itself.