

HOURLY PRICING PROGRAM OVERVIEW

Topics

- Hourly Pricing Introduction
- Understanding Hourly Pricing
- Metering & Telecommunication Requirements
- Billing Overview
- Energy Profiler Online

HOURLY PRICING INTRODUCTION

Mandatory Hourly Pricing

- On September 23, 2005 the PSC issued Order 03-E-0641 requiring utilities to implement Mandatory Hourly Pricing (MHP).
- The goal in implementing MHP is to realize the benefits of reducing the system peak demand and shifting load to off-peak, less expensive time periods.
- The benefits for customers include potential reductions to peak period prices, enhanced reliability and a reduction in NY State's dependence on natural gas fired generation.

Mandatory Hourly Pricing Customer Value

- MHP may provide customer value
 - Enables customers to realize benefits of:
 - Shifting Loads
 - Reduced Peaks
 - Paying Actual Market Costs
- Allows customers to manage *Energy Cost*.

Who is Affected and When

- Currently customers with a billing demand of 500 kW or greater for 2 out of 12 months are subject to the hourly pricing tariff provisions.
- Effective September 22, 2012, the program will be expanded to include all remaining rate class 8 customers.
- Customers purchasing supply from the utility will be billed hourly prices.
- All customers, regardless of supplier, are subject to the metering and telecommunication requirements.

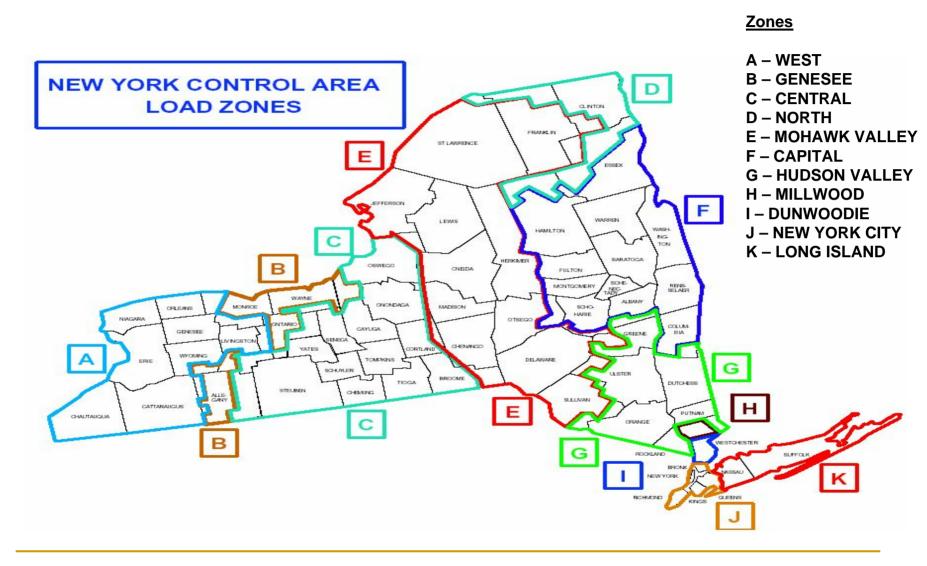
UNDERSTANDING HOURLY PRICING

What Determines Hourly Pricing?

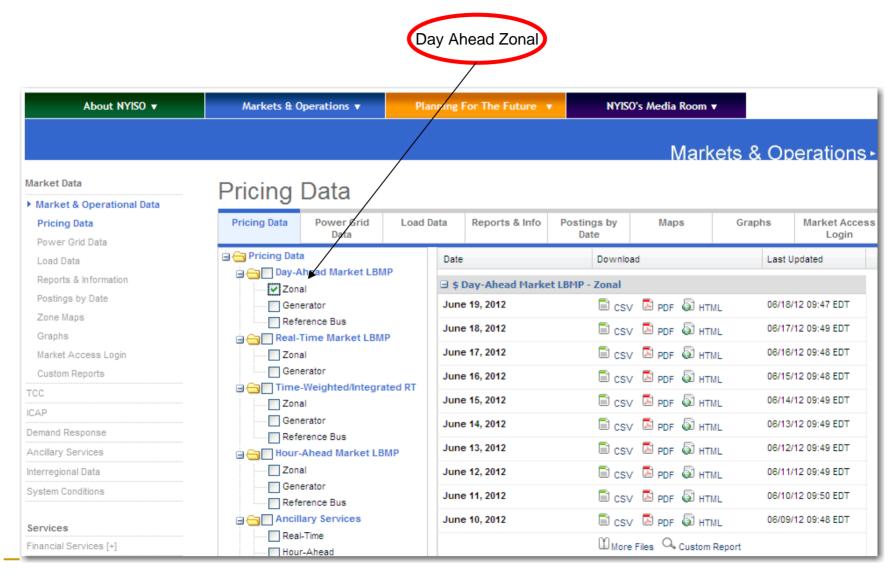
Hourly Pricing is based on the Day-Ahead Market

- New York Independent System Operator (NYISO)
 - Provides for the economic dispatch of generation
 - Operates the bulk transmission system
- Fuel drives cost
 - Fossil fuels, Oil, Natural gas, Coal
 - Hydro power
- Generation availability drives cost
 - Based on system requirements and cost
 - High Cost Peaking units when needed

NYISO Zone Map



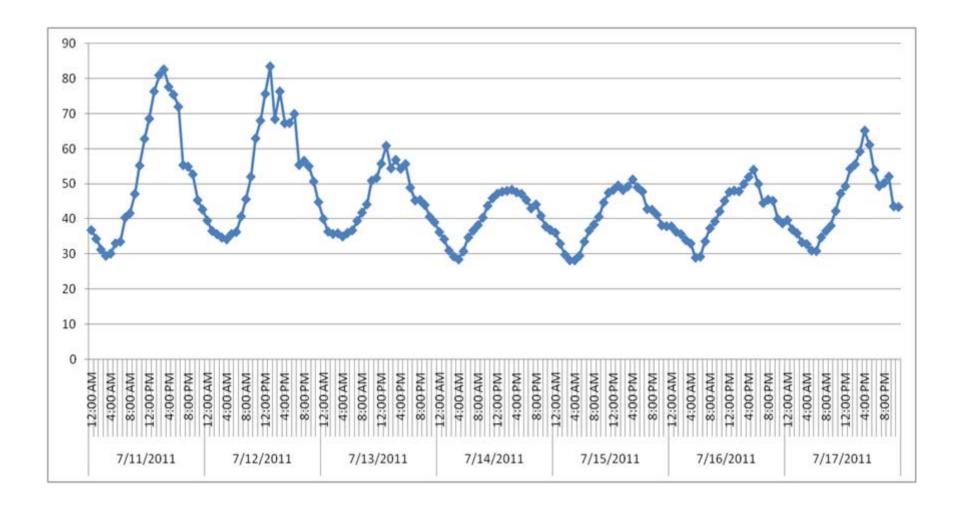
Day-Ahead Pricing Data at nyiso.com



Day-Ahead Zonal Price

Time Stamp	Name	PTID	LBMP (\$/MVVHr)	Marginal Cost Losses (\$/MWHr)	Marginal Cost Congestion (\$/MVVH
6/27/2011 0:00	CAPITL	61757	38.68	1.81	0
6/27/2011 0:00	CENTRL	61754	36.72	-0.15	0
6/27/2011 0:00	DUNWOD	61760	39.41	2.54	0
6/27/2011 0:00	GENESE	61753	35.73	-1.14	0
6/27/2011 0:00	НQ	61844	36.46	-0.41	0
6/27/2011 0:00	HUD VL	61758	39.41	2.54	0
6/27/2011 0:00	LONGIL	61762	43.57	3.76	-2.93
6/27/2011 0:00	MHK VL	61756	37.64	0.77	0
6/27/2011 0:00	MILLVVD	61759	39.34	2.47	0
6/27/2011 0:00	N.Y.C.	61761	39.71	2.84	0
6/27/2011 0:00	NORTH	61755	36.54	-0.33	0
6/27/2011 0:00	NPX	61845	38.79	1.92	0
6/27/2011 0:00	ОН	61846	34.33	-2.54	0
6/27/2011 0:00	PJM	61847	35.4	-1.47	0
6/27/2011 0:00	WEST	61752	34.99	-1.88	0
6/27/2011 1:00	CAPITL	61757	34.18	1.78	0
6/27/2011 1:00	CENTRL	61754	32.24	-0.16	0
6/27/2011 1:00	DUNWOD	61760	34.57	2.17	0
6/27/2011 1:00	GENESE	61753	31.3	-1.1	0
6/27/2011 1:00	НQ	61844	32.01	-0.39	0
6/27/2011 1:00	HUD VL	61758	34.6	2.2	0
6/27/2011 1:00	LONGIL	61762	37.08	3.27	-1.41
6/27/2011 1:00	MHK VL	61756	33.05	0.65	0
6/27/2011 1:00	MILLWD	61759	34.54	2.14	0
6/27/2011 1:00	N.Y.C.	61761	34.83	2.43	0
6/27/2011 1:00	NORTH	61755	32.01	-0.39	0
6/27/2011 1:00	NPX	61845	34.21	1.81	0
6/27/2011 1:00	ОН	61846	30	-2.4	0
6/27/2011 1:00	PJM	61847	33.14	0.75	0
6/27/2011 1:00	WEST	61752	30.49	-1.91	0
6/27/2011 2:00	CAPITL	61757	31.5	1.64	0
6/27/2011 2:00		61754	29.71	-0.15	0
6/27/2011 2:00	DUNWOD	61760	31.71	1.85	0

Day-Ahead Zonal Price



Hourly Pricing Components

- The hourly price includes the following components:
 - Supply Charge sum of hourly metered usage multiplied by NYISO Day Ahead Market (DAM) LBMP for Genesee Zone adjusted for losses
 - Ancillary and NTAC charges
 - Supply Adjustment Charge
 - Capacity Charges

Hourly Pricing Component Definitions

- Distribution & Transmission Losses
 - Commodity losses that occur as electricity is transported through power lines and substations.
- Capacity Charge
 - Capacity procurement is required to ensure there is adequate generation to serve the entire load in New York State. Each load serving entity is required to procure capacity for their customers.
 - Each customer must pay for the capacity required to serve their load on a peak day.
- Supply Adjustment Charge
 - Unaccounted for energy and all costs incurred related to supply differences between the amount of energy the utility purchases and what is sold to customers. It covers differences due to theft of service, forecasting, etc.

METERING AND TELECOMMUNICATION REQUIREMENTS

Metering & Telecommunications Requirements

- All customers subject to MHP will be required to have an interval meter and remote meter reading capability, regardless of who their supplier is.
- RG&E will install the required interval meter. There is a \$7.92 per month charge for this meter.
- The customer will be required to install a telephone line unless the customer is directed by the Company that a cellular option is available.
- We are currently transitioning to installing new meters that include the telephone connection.
- The transition began in the middle of meter installations so not all customers have the new technology, therefore a land line is necessary for earlier installations.

Metering & Telecommunications Requirements

- A telephone line is required for the following reasons:
 - Meters will be read daily
 - Load forecasting and scheduling
 - To support online energy analysis software (Energy Profiler Online) for those customers that subscribe

Metering & Telecommunications Requirements

- What happens if a telephone line is not installed to the meter?
 - RG&E will have to manually download the hourly use data.
 - The customer will be charged a fee of \$82.49 each billing period that RG&E must manually download the data due to the telephone line not being installed or not functioning. This charge will appear as a separate line item on the bill.

BILLING OVERVIEW

Billing Overview

- Delivery & Customer Charges will continue to be billed as they are currently.
- Monthly Meter Charge \$7.92 per month
- Supply Charges
 - The bill will show total kilowatt hours (kwh) supplied and the total price.
 - Hourly kwh use and prices will be available on the utility website at the time the bill is issued.
 - ESCO supply charges will continue to be billed as they are currently.

Bill Example

		-	-	
On Peak	507619	kwh	30	days
On Peak	1796.84	kw	30	days
Off Peak	489044	kwh	30	days
Off Peak	1629.44	kw	30	days
Reactive	400500	rkvah	30	days

Electricity Delivery Charges

Customer charge Competitive meter charge Competitive meter serv. charge Competitive meter data service Hourly meter charge Demand charge Transition charge - May Transition charge - Jun Reactive charge NY state assessment SBC/RPS charge	1796.8400 kw @ 8.07 679695 kwh @ 0.00142 316968 kwh @ 0.00286 151334 rkvah @ 0.00127 1796.8400 kw @ 0.78 996663 kwh @ 0.003548	1,123.84 28.77 42.62 4.15 7.92 14,500.50 965.17 906.53 192.19 1,401.54 3,536.16
Subtotal Electricity Delivery		\$22,709.39
Electricity Supply Charges		
Supply charge Supply adjustment charge - May Supply adjustment charge - Jun Ancillary and NTAC charge-May Ancillary and NTAC charge-Jun Capacity charge Merchant function charge - May Merchant function charge - Jun	996663 kwh @ 0.04414784 679695 kwh @ 0.00275 316968 kwh @ 0.00114 679695 kwh @ 0.00258 316968 kwh @ 0.00435 1949.0285 kw @ 0.71049757 679695 kwh @ 0.004593 316968 kwh @ 0.004614	44,000.52 1,869.16 361.34 1,753.61 1,378.81 1,384.78 3,121.84 1,462.49

Bill Example – Supply Charges

Electricity Supply Charges			
Supply charge Supply adjustment charge - May Supply adjustment charge - Jun Ancillary and NTAC charge-May Ancillary and NTAC charge-Jun Capacity charge Merchant function charge - May Merchant function charge - Jun	996663 kwh 679695 kwh 316968 kwh 679695 kwh 316968 kwh 1949.0285 kw 679695 kwh 316968 kwh	 0.04414784 0.00275 0.00114 0.00258 0.00435 0.71049757 0.004593 0.004614 	1,869.16 361.34 1,753.61 1,378.81
Subtotal Electricity Supply			\$55,332.55

Supply Charge

The cost per kwh is equal to the sum of each hour's use multiplied by each hour's price (including losses).

Capacity Charge

The capacity charge for hourly pricing customers is unbundled from the supply charge. For customers not subject to hourly pricing the capacity charge is a component of the supply charge.

The capacity kw is equal to the customer's kw use for the hour coinciding with the New York State peak demand for the May - April period. The capacity kw changes every May 1st.

The cost per kw varies on a monthly basis.

Supply Adjustment Charge

This covers differences between the amount of energy the utility purchases and what is sold to customers. It covers differences due to theft of service, forecasting, etc.

Hourly Use and Pricing Summary

This information is not shown on your monthly bill. To access the hourly use and pricing detail the customer must access their account online at **rge.com**.

Date	Units	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00
07/27/2007			1118.96 0.04109				1166.96 0.03949			1557.28 0.05621		1556.24 0.06537		1604.88 0.07235
07/28/2007		1038.08 0.05547	1030.56 0.0522				965.04 0.03918							
07/29/2007	kwh \$/kwh		1064.08 0.0493				1079.28 0.03913							
07/30/2007	kwh \$/kwh		1032.16 0.05173				1091.04 0.04865							
07/31/2007		1028.56 0.05715	1019.2 0.05141				1005.36 0.04525							
08/01/2007		1106.72 0.06164	1095.2 0.05299				1134.8 0.04962				1618.64 0.07553			
08/02/2007		1111.92 0.06469	609.84 0.06162	372.24 0.05923			1107.92 0.05672							

Note: If you purchase your energy from an ESCO only the hourly kwh will be displayed.