



Constellation Energy®



The way energy **works**.™

EMCS, Load Response

GovEnergy Dallas August, 2010

The Collision of Energy & Data

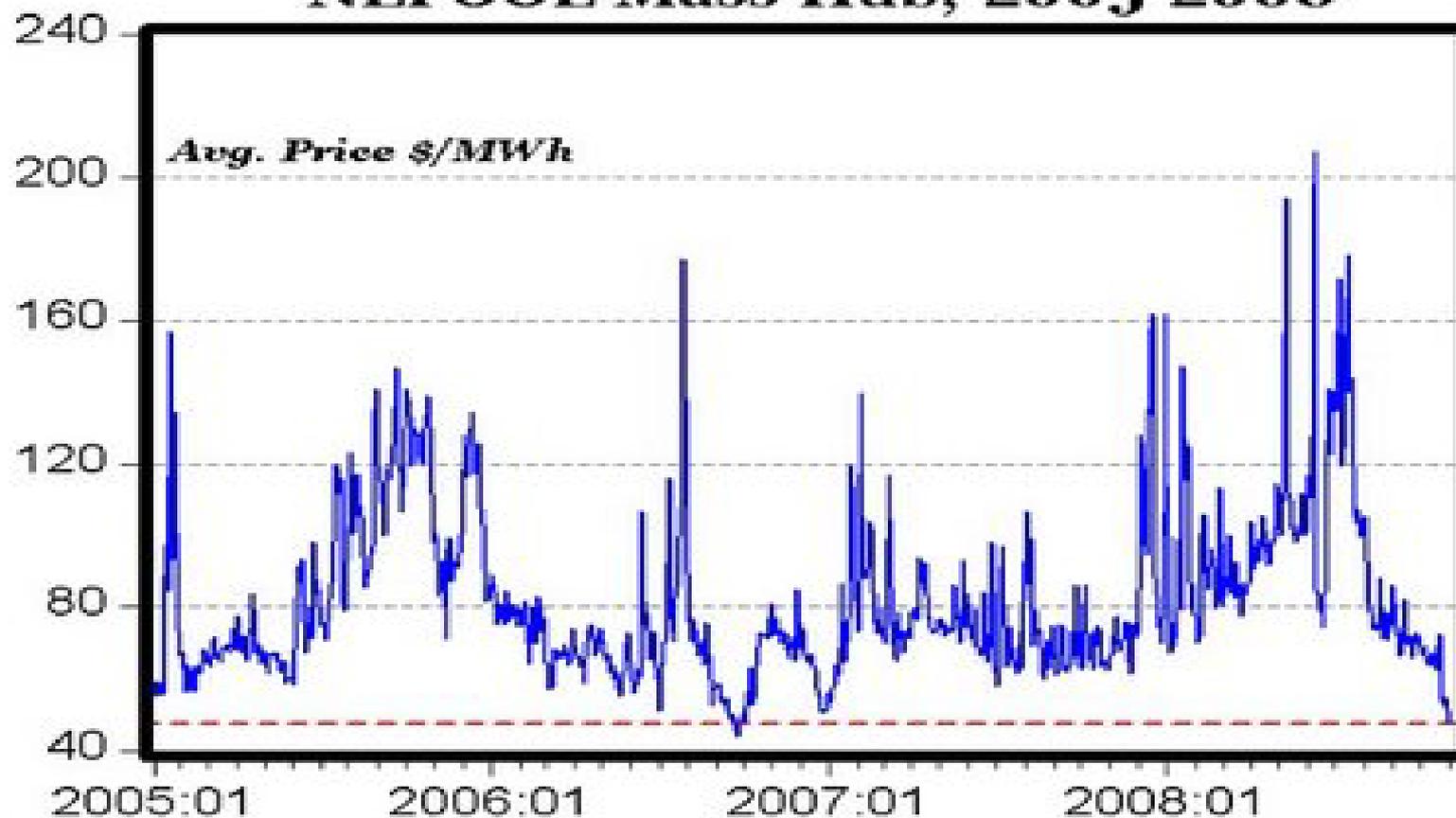


Source: <http://www.flickr.com/photos/shawnzlea/> / CC BY 2.0

Sorry, too late...

Volatility is a Real Challenge...and an Opportunity

Wholesale Day Ahead Electricity Prices NEPOOL Mass Hub, 2005-2008



Source: ICE via EIA

Now You Can Do Something About It

Market Signals

- + Information
- + Action

Value

What Does ALR Offer The Customer?

Access to Data → Ability to Drive Decisions → Achieve Objectives & Impact Bottom-line

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for your business

Home Bid Search Dashboard Energy Manager Contact Us Admin Help **Need Help? 1-877-847-0007** Log Out

Joe Energy | ABC Industrial | April 06, 2010

Current Usage

Current usage: 17.71 MW

Current usage values as of Tue April 06, 2010 14:19

Grid Load

Current ISO Load : 84,508 MW

Grid load as of Tue April 06, 2010 14:21

Message Center

System Message

ISO results last updated on Tue April 06, 2010 14:18 (EST)

Dashboard

Dashboard

- Monitor energy consumption
- Access historical usage
- View ISO market pricing and program details

Load Response

Start a New Bid

- Create bid groups
- Submit bids in various Demand Response markets
- Track bid status and history

Energy Manager

Energy Manager

- View event details
- Select scenarios to reduce consumption
- Monitor consumption levels

Current Weather

Baltimore, 21202

85°

Big Town, 21286 86°

Facility Manager can Override Controls

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Real-Time Information



Dashboard: Financial Reporting



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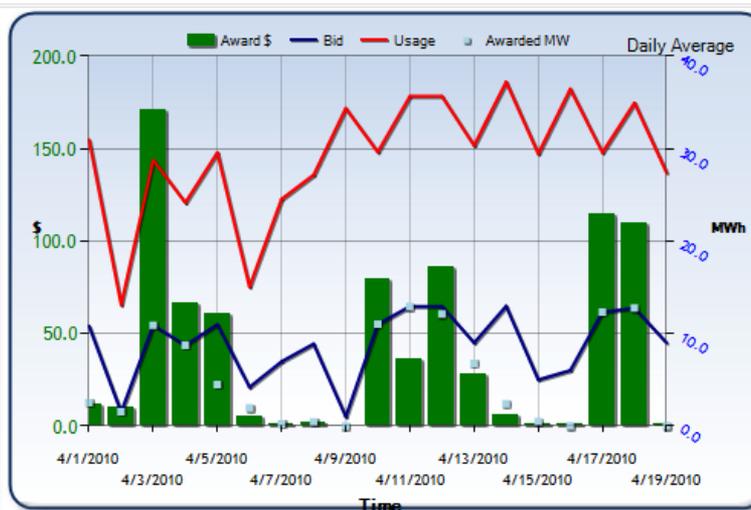
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Kyle Harbaugh Test All Call April 19, 2010

Synch Reserve Financial Summary(April 19, 2010 14:39)

NEED HELP? PRINT EXPORT



Statistics (hourly values)

Highest Award (\$)	274.02
Average Award (\$)	35.46
Highest Award (MW)	13.00
Highest Bid (MW)	13.00
Peak Usage (MW)	38.42
Average Usage (MW)	28.48
Approximate value for the month	
Value (\$)	16169.12

The Energy Market Place: Economic Decisioning



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Joe Energy | ABC Industrial | April 26, 2010

Create a New Bid

Machinery Group

ISO: PJM ISO
PJM Time: 11:13
Region: RFC
Zone: BGE
View Facilities

Synchronized Reserve Price Close: 17:55

Operating Day Select a date
 Multiple Operating Days

Bid Price (\$):
View Previous Bid: No previous bids available

Current Bid

0:00 - 8:00
8:00 - 16:00
16:00 - 24:00

Time	00:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	06:00-07:00	07:00-08:00
Baseline								
Quantity(MW):	32.20	31.64	30.65	30.87	32.21	32.46	31.59	30.89
Bid								
Quantity(MW):	<input style="width: 40px;" type="text"/>							

Clear All
Save Draft
Review Bid

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You Can Take Advantage of Market Volatilities Every Day

Mobile Market Access



Operate in Real-Time

Access energy markets anywhere, at any time, on your mobile device

Automated Load Control

You Drive the Strategies

Joe Energy | ABC Industrial | April 26, 2010

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HEED HELP?

April 26, 2010

Active Expired Completed Committed Pending

Record ID: 58137
04/27/2010
10:45 - 16:00
1000 kW
291
Status: Committed

Add New Event
Delete Event

Event - Date Range & Time Selection

Start Date: April 26, 2010 End Date: April 26, 2010 Start Time: 12:00 End Time: 14:00 Commit

Site ID: Machinery Group April 26, 2010 11:18

Load Reduction Amount Selection

Realtime Value (Kw)
25920

Select Load Reduction
925 Update

Total kW: 925 Total Value (\$): 142

Load Control Scenario Selection

Reduction Scenarios	Confidence Factor (%)	ELR (kW)	Total (kW)
<input type="checkbox"/> Mail Common Area Lighting Reduction		300	
<input type="checkbox"/> Asphalt Plant		5000	
<input type="checkbox"/> Small Quarry Pumps		1200	
<input checked="" type="checkbox"/> Decorative Lighting	100	300	300
<input checked="" type="checkbox"/> Global Temperature Adjustment	100	425	425
<input checked="" type="checkbox"/> HVAC Duty Cycle	100	200	200
<input type="checkbox"/> Rock Crusher and Mills, System 1		10000	

Total kW: 925

Vornado, Crystal City: A Case Study



Lessons Learned

- Information is everything
- There are almost ALWAYS minor complications
- Other problems are often identified and addressed simultaneously
- There are many cooks
- You cannot over-communicate: Clarity of expectation is critical

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