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Fort Worth
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Uvalde
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Eagle Pass
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Port Laveca
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Alice
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LOUISIANA
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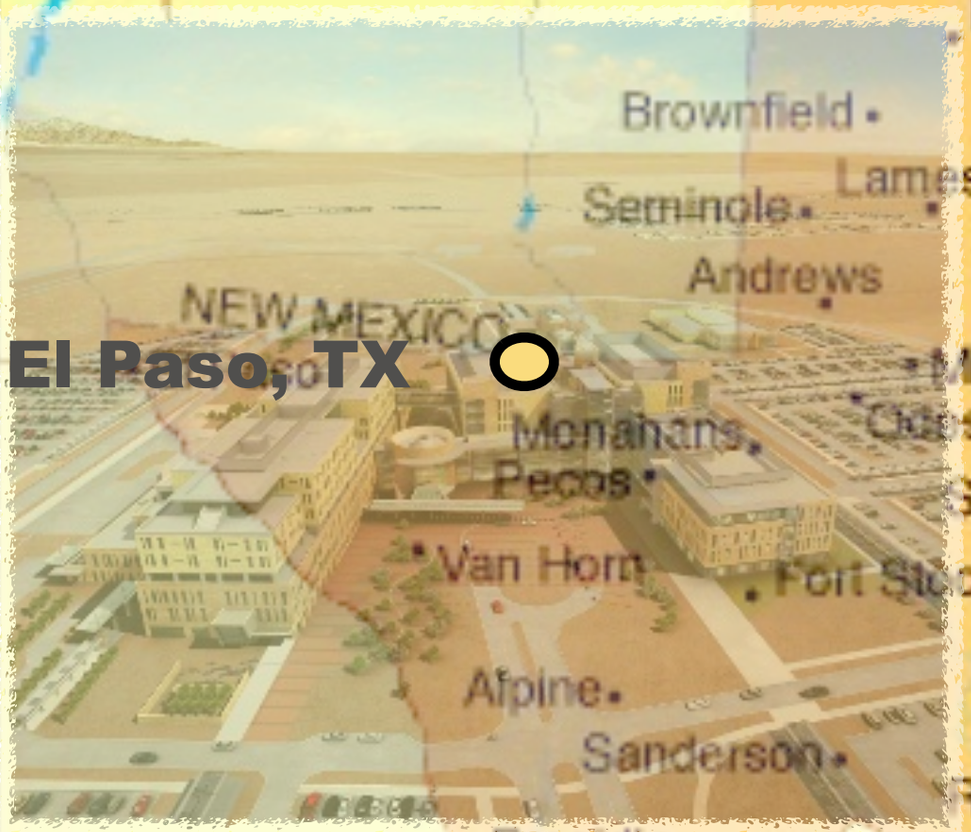
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Monday, November 4, 2013

El Paso, TX

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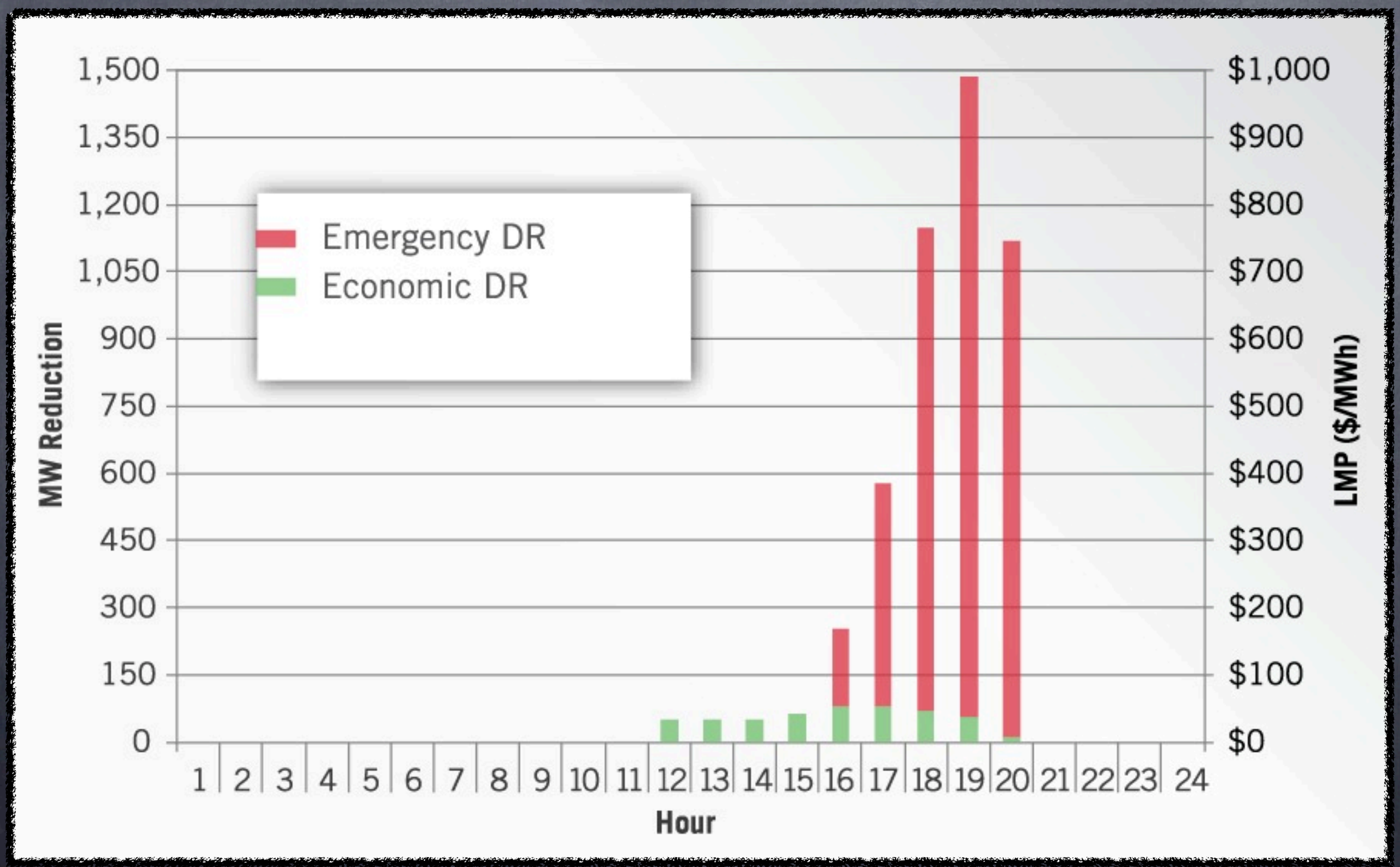
El Paso, TX

Monday, November 4, 2013

Monday, November 4, 2013

DR in PJM on May 31, 2011



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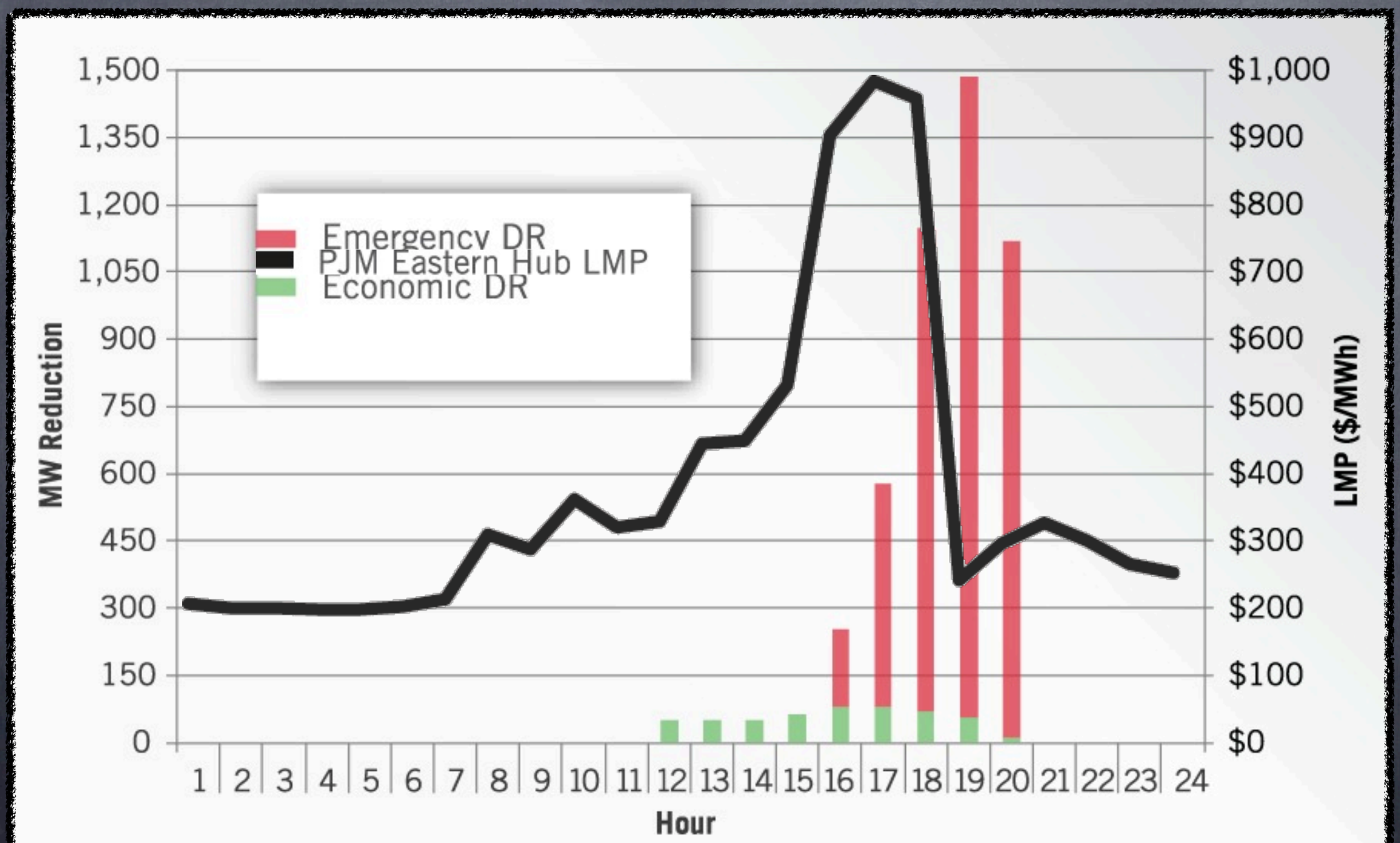

Monday, November 4, 2013

FERC: The Benefits of Demand Response & Intelligent Efficiency:

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* Lower demand/lower price

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* Reduces generator market power

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* Reduces generator market power
* Enhanced reliability
* Supports renewable power

FERC: The Benefits of Demand Response & Intelligent Efficiency:

* Lower demand/lower price
* Flatten load profile reducing costly generation
* Reduces generator market power
* Enhanced reliability
* Supports renewable power
* Reduces emissions & generator maintenance

Monday, November 4, 2013

AlertMe
Heating
ON
OFF
AUTO
0.00
HOURS
TEMPERATURE
23°
19°
TARGET

Monday, November 4, 2013

UTILITY

CONSUMER

Integrated Enterprise-Wide Advanced Control Systems

Soft Grid: Data Storage, and Analytics

Rackspace SAS Oracle EcoFactor Convergys Cisco IBM Teradata VMware EMC² Space-Time Insights
Aclara Powerit Solutions Power Analytics SAP EDX Wireless Intergraph Milsoft GRIDiant OSIsoft Hansen Technologies

Consumer Energy Management Systems & Networks

Application Layer

Grid Support: Managing distributed energy

Xtreme Power A123 Systems Greenlots NGK Insulators Clipper Creek Locus Energy AeroVironment
Beacon Power (Flywheel) ECOtality Coulomb General Microgrids Vycon Better Place Ice Energy
Petra Solar SANYO Primus Power Enphase Energy SMA Xtreme Power Axion Power Prudent Energy

Network Operations: Network monitoring and control

Schneider Electric Cooper Power Systems Ventyx (ABB) Survalent Siemens Efacec OSI International Toshiba Alstom ETAP GE

Transmission: Wide area controls and applications

XD Group Toshiba ABB SEL Alstom Grid Crompton Greaves Siemens American Superconductor GE

Distribution Automation: Reliability, real-time monitoring and intelligent control

ABB Cooper Power Systems Doble Schneider Electric BPL Global Crompton Greaves G&W Electric GridSense
Hubbell Inc. S&C Electric Co. Sentient Energy Gridco Systems Siemens PowerSense Eaton GE
Tollgrade Comm. XD Group Ubidata Toshiba SEL Dynamic Ratings Varentec OptiSense Networks Efacec

AMI Infrastructure: Manage distributed energy

eMeter Itron Aclara Ecologic Analytics Wasion Group Oracle Holley OSIsoft Silver Spring Networks Trilliant
Telvent Elster EnergyICT ElectSolve GE Echelon Harris Utilities Landis+Gyr ELO Sistemas Sensus Elster

Demand Side Management: Energy management systems, portals and apps

EnerNOC Comverge
Viridity Energy SynapSense
Consert SCIenergy
Honeywell 4Home
AlertMe Alektrona
Opower Exegin
Alarm.com Energy Hub
iControl Energy Aware
Control4 INSTEON
Onzo Verdiem
EcoFactor Energate
Tendril Sequentric
Sentilla
Adura Technologies
Calico Energy Services
Integral Analytics
Advanced Telemetry
Greenwave Reality
Powerhouse Dynamics
Constellation Energy
Johnson Controls
Radio Thermostat
Digi International

Communications: Networking platform

Current Group Airspan Elster Nexgrid Fujitsu Proximetry Alcatel-Lucent AT&T Verizon Cisco Sensus
Ericsson RuggedCom GridMaven Qualcomm Huawei Amperion Ambient S&C Electric Co. Tropos
Freewave On-Ramp Wireless Sierra Wireless Sprint Sixnet LiveData Silver Spring Networks Power Tagging Tantalus Trilliant

Communication Layer (H/W, S/W/ Control) **Network Gateway** **Smart meter & Broadband**

Security
Tofino McAfee Industrial Defender Revere Security Symantec iOactive Boeing Cylance Lockheed Martin

Integration and Consulting
CSC Wipro SAIC EMC² Capgemini EnerNex Green Energy Corp. Battelle Black & Veatch Accenture Infosys IBM Quanta Tech. Bridge Energy Group Quality Logic DNV Kema

Platform and Analytics

Industrial Defender

Power Layer Infrastructure

UTILITY
CONSUMER
FIRST FUEL
BUILDING ENERGY ANALYTICS
Integrated Enterprise-Wide Advanced Control Systems
Soft Grid: Data Storage, and Analytics
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Aclara Powerit Solutions Power Analytics SAP EDX Wireless Intergraph Milsoft GRIDiant OSIsoft Hansen Technologies
Consumer Energy Management Systems & Networks
OPOWER
Application Layer
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Vycon
SMA Xtreme Power
Network Operations: Network monitoring and control
Schneider Electric Cooper Power Systems Survalent Siemens
Demand Side Management: Energy management systems, portals and apps
Comverge
SynapSense
SEL Alstom Grid Crompton Greaves
Doble Schneider Electric BPL Global
Sentient Energy Gridco Systems
Utilidata Toshiba SEL Dynamic Ratings Varentec OptiSense Networks Etacec
GRIDIANT
Sentilla Sequentric
Adura Technologies
Calico Energy Services
Integral Analytics
Advanced Telemetry
Greenwave Reality
Powerhouse Dynamics
Constellation Energy
Johnson Controls
Radio Thermostat
Digi International
Trilliant
Elster
Sensus
Tropos
Trilliant
Ericsson RuggedCom
Freewave On-Ramp Wireless
ENERNOC
economic. clean. energy.
Security
Integration
Platform and
Communication Layer (H/W, S/W/ Control)
Network Gateway
Smart meter & Broadband
Power flow control for the Grid
Swg
Industrial Defender
Power Layer Infrastructure
GRIDCO SYSTEMS
Generation
Transmission
Substation
Distribution
Home/Building/Data Centers
Distributed Generation and Storage
Utility
Infrastructure
Consumer

FIRST FUEL

BUILDING ENERGY ANALYTICS

OPOWER

Integrated Enterprise-Wide Advanced Control Systems

GRIDIANT

ENERNOC

TAS

economic. clean. energy.

Power flow control for the Grid

swg

GRIDCO SYSTEMS

Monday, November 4, 2013

UTILITY
CONSUMER
FIRST FUEL
Soft Grid: Data Storage, and Analytics
Integrated Enterprise-Wide Advanced Control Systems
OPOWER
Application Layer
Grid Support: Managing distributed energy
Network Operations: Network monitoring and control
Demand Side Management: Energy management systems, portals and apps
Meter Data
REMOTE BUILDING ANALYTICS
GRIDIANT
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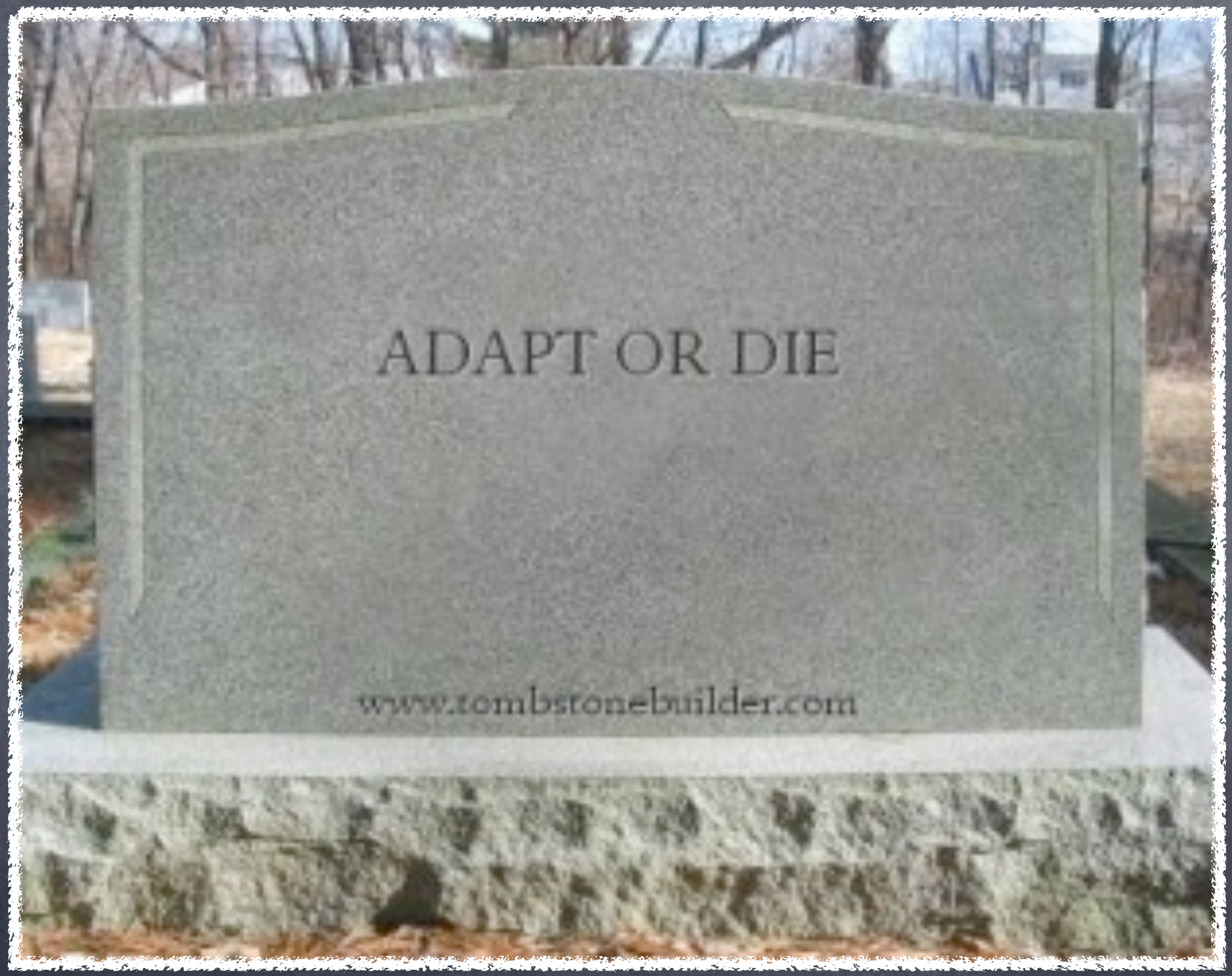
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Thank You