

ConnectivityWeek™

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#ConnWeek

Automation for Energy Management

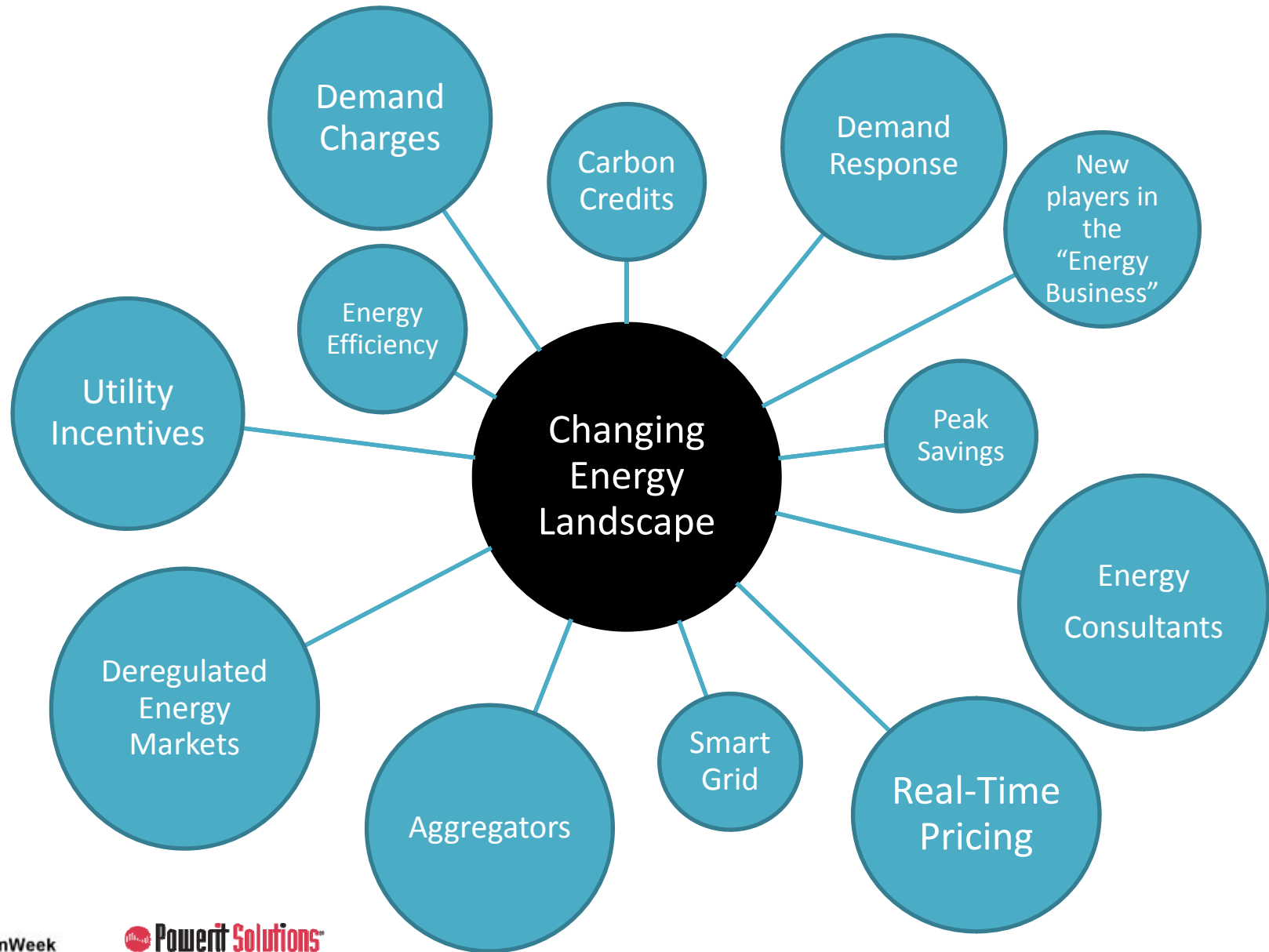
Bob Zak

GM/President

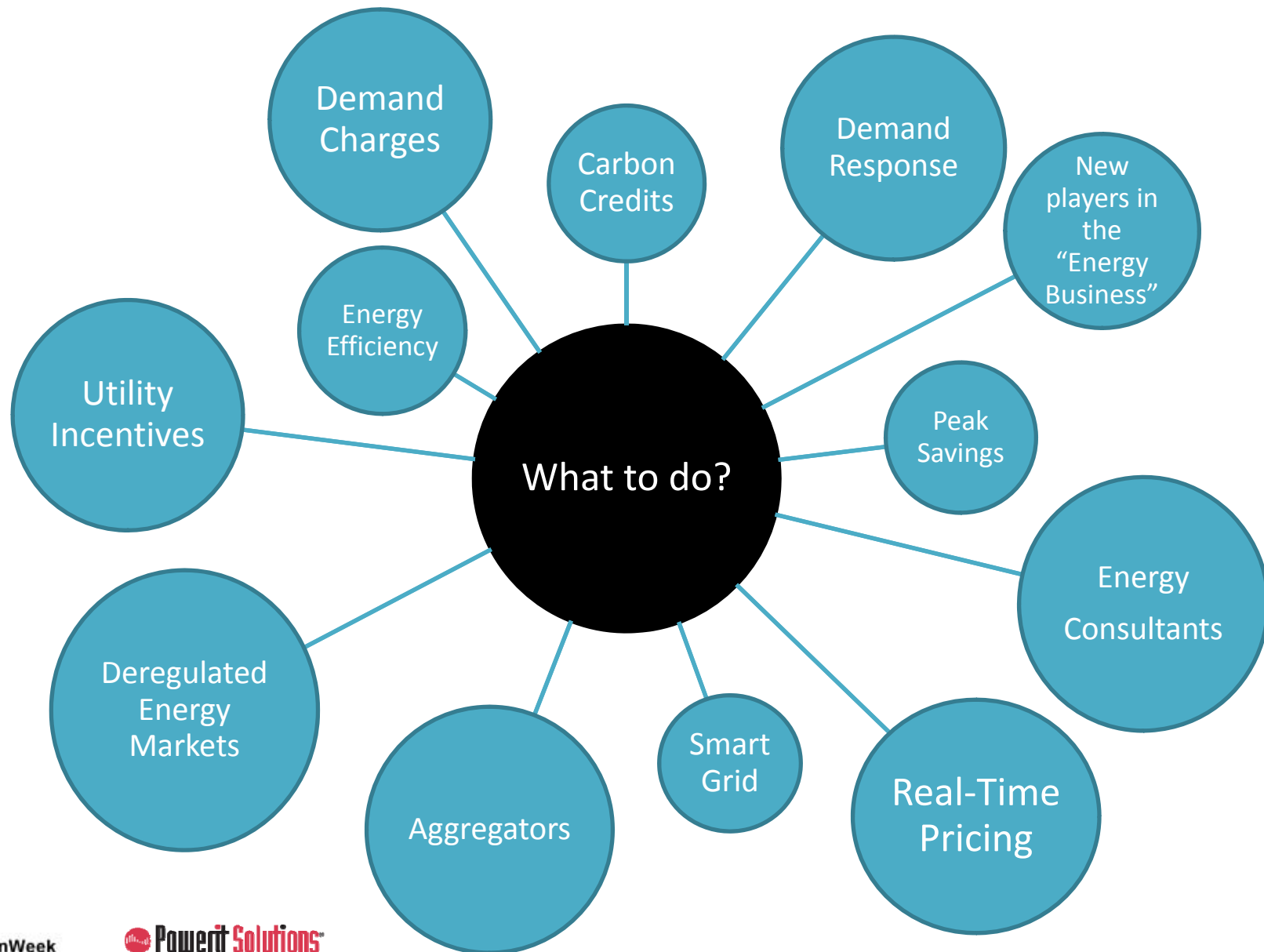
Powerit Solutions

 **Powerit Solutions®**

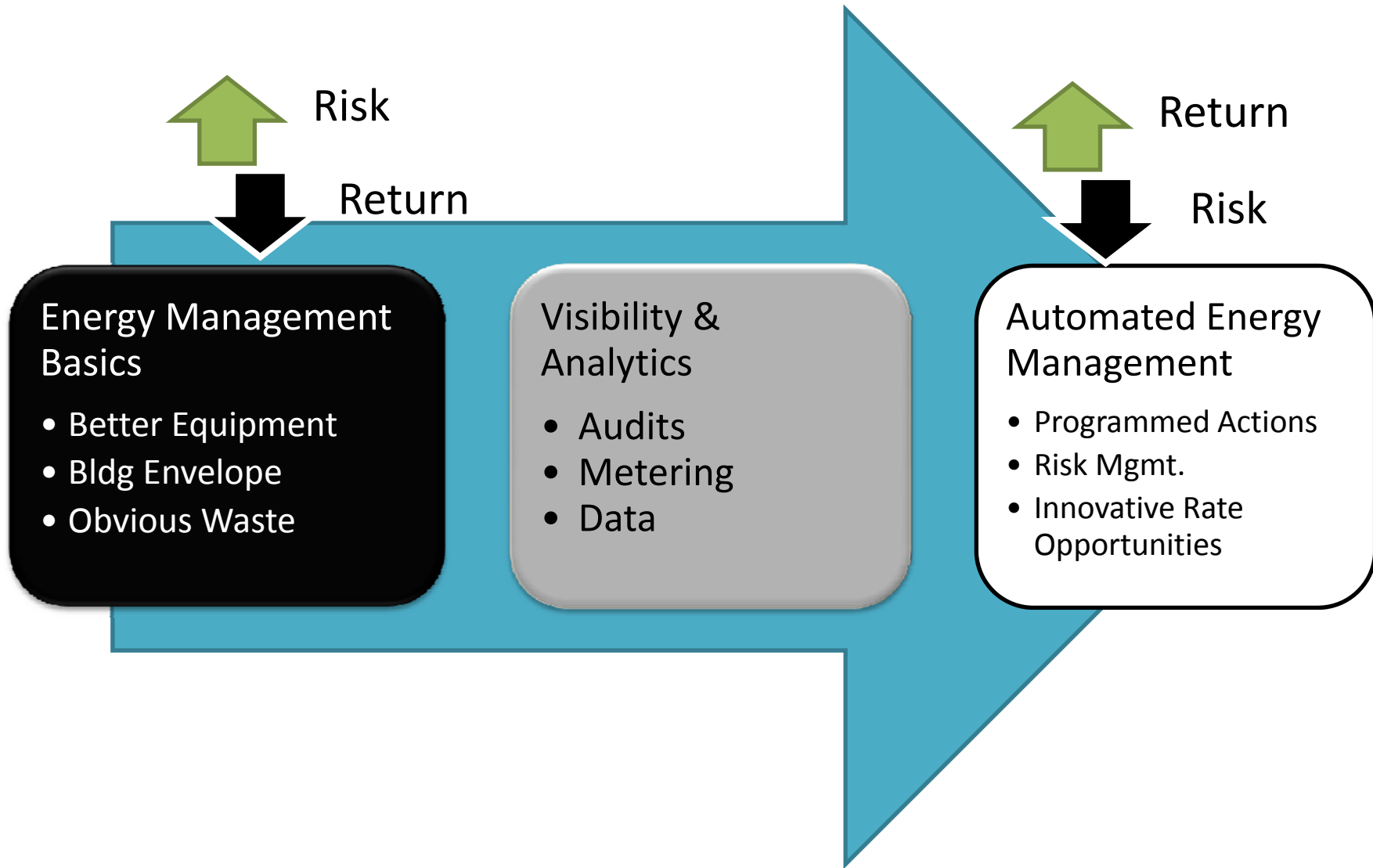
Pressures on End Users



Pressures on End Users



Manage Energy Use

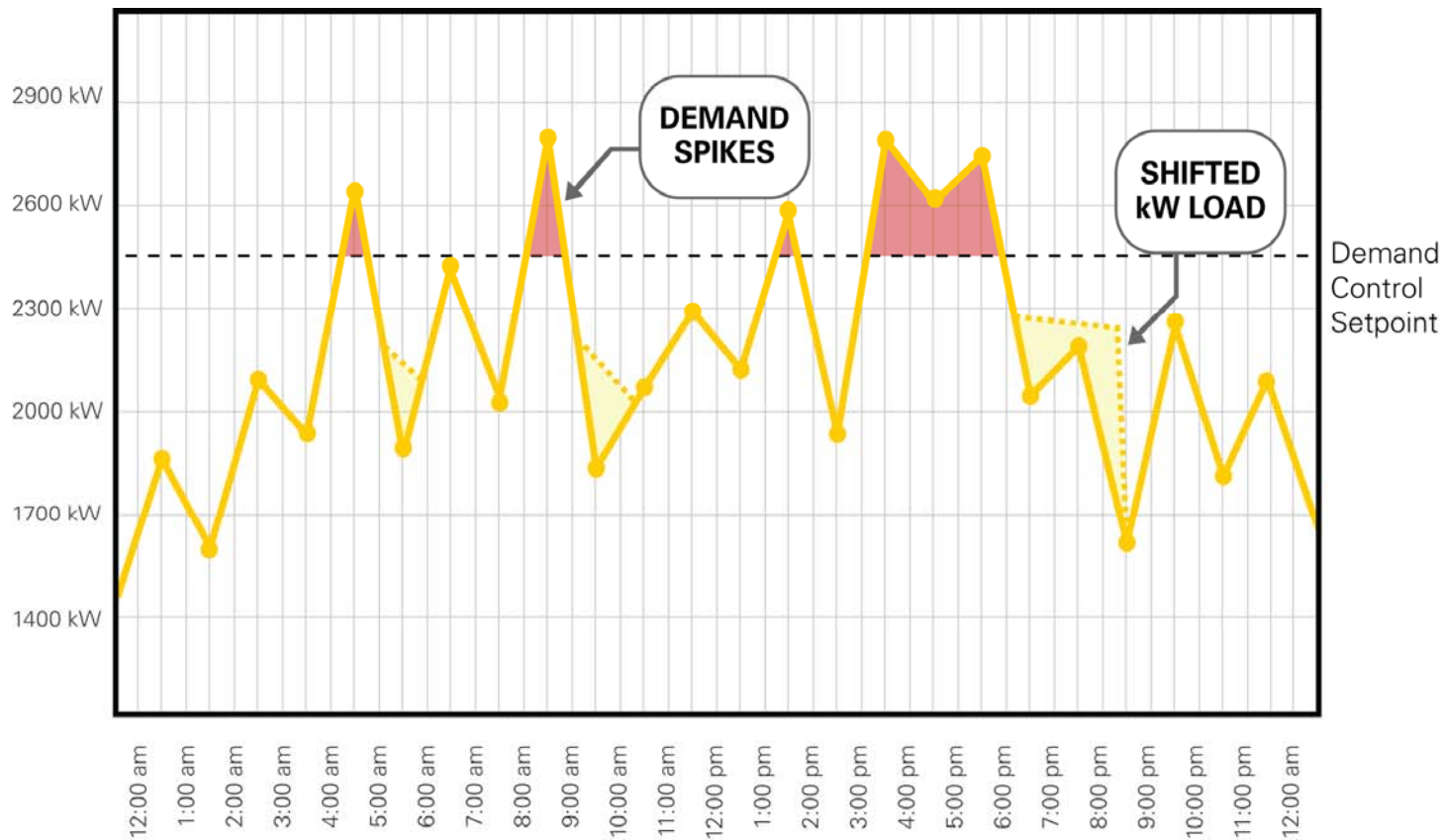


Cornerstones of Energy Mgmt

Utilize Proven Techniques & Tools for Improving Your Position

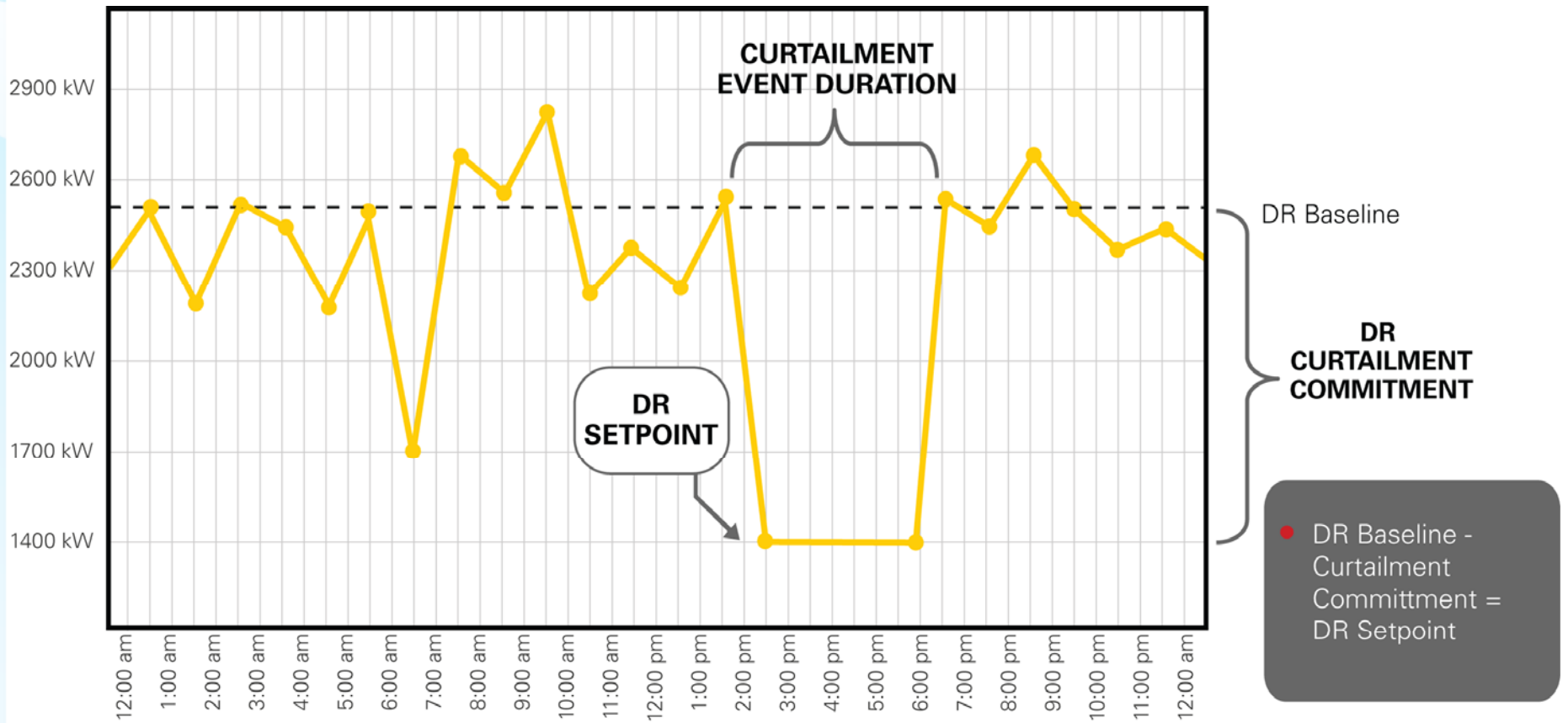


Intelligent Peak Demand Control

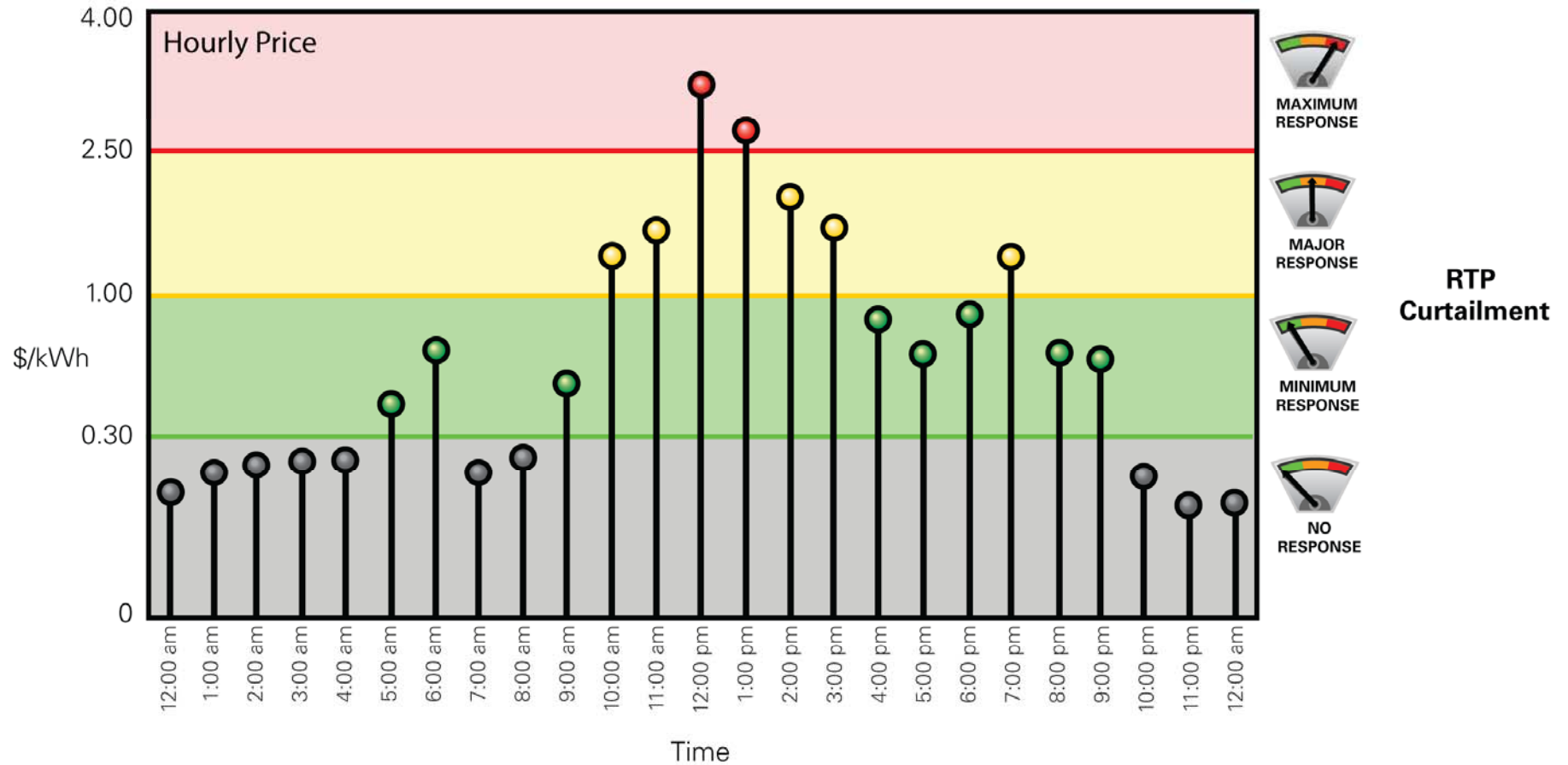


- Random coincidental spikes in kW result in high peak-demand based charges from utility
- Many times the kW use is simply shifted or slightly delayed, lowering peak kW while not affecting site productivity based on total kWh

Intelligent Demand Response



Intelligent Real-time Pricing Mgmt



Embrace Automation

- At one time, automated process controls were viewed as risky and a “nice to have”.
- It was thought doubtful that the internet and standard IT solutions would find their way to the plant floor.
- We now know how important automation & data is to productivity, quality, data handling and risk management.
- **Why should automation of energy management be any different?**



Example: Automated RTP

Spara Real-time Pricing



- Utility communicates pricing data via web, CSV, database link, etc.



Load connections

- Pricing is collected by Spara Real-time Pricing and integrated into a preset load-shedding strategy.
- Strategies run automatically based on their intended electricity price thresholds.
- To protect the site, Spara Real-time Pricing incorporates custom rules (e.g. time, occupancy, product, growing season).



- Easy-to-use web interface allows users to make multiple price threshold changes.
- Spara Real-time Pricing tracks and reports savings and provides historical rate and system data.

It All Boils Down to ROI

Anchor Warehouse

- 35% Decrease in Peak Demand
- 17% Savings on Energy Bill
- 13% Reduction in daily kWh usage, while production increased 15%
- ROI immediately upon installation



Pacific Alloys

- 30% decrease in peak demand
- ROI: 10 months
- Implementing Automated RTP for kWh rate improvement (using OpenADR)

Mission Produce

- 279kW average billed kW reduction
- 500kW available for DR
- 141,112kWh first year savings
- ROI: 20 months
- Significant operational improvement

Thanks



Industrial & Commercial Energy Management Systems



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