



# **The Power System of the Future**

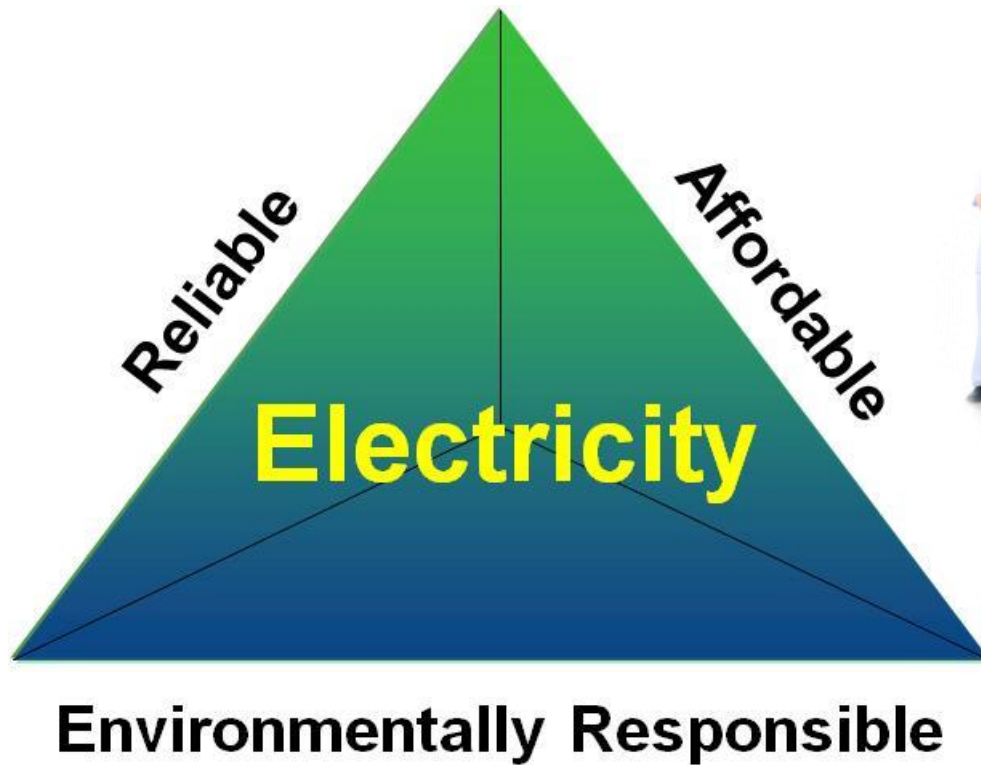
## ***Innovations, Trends and Signposts***

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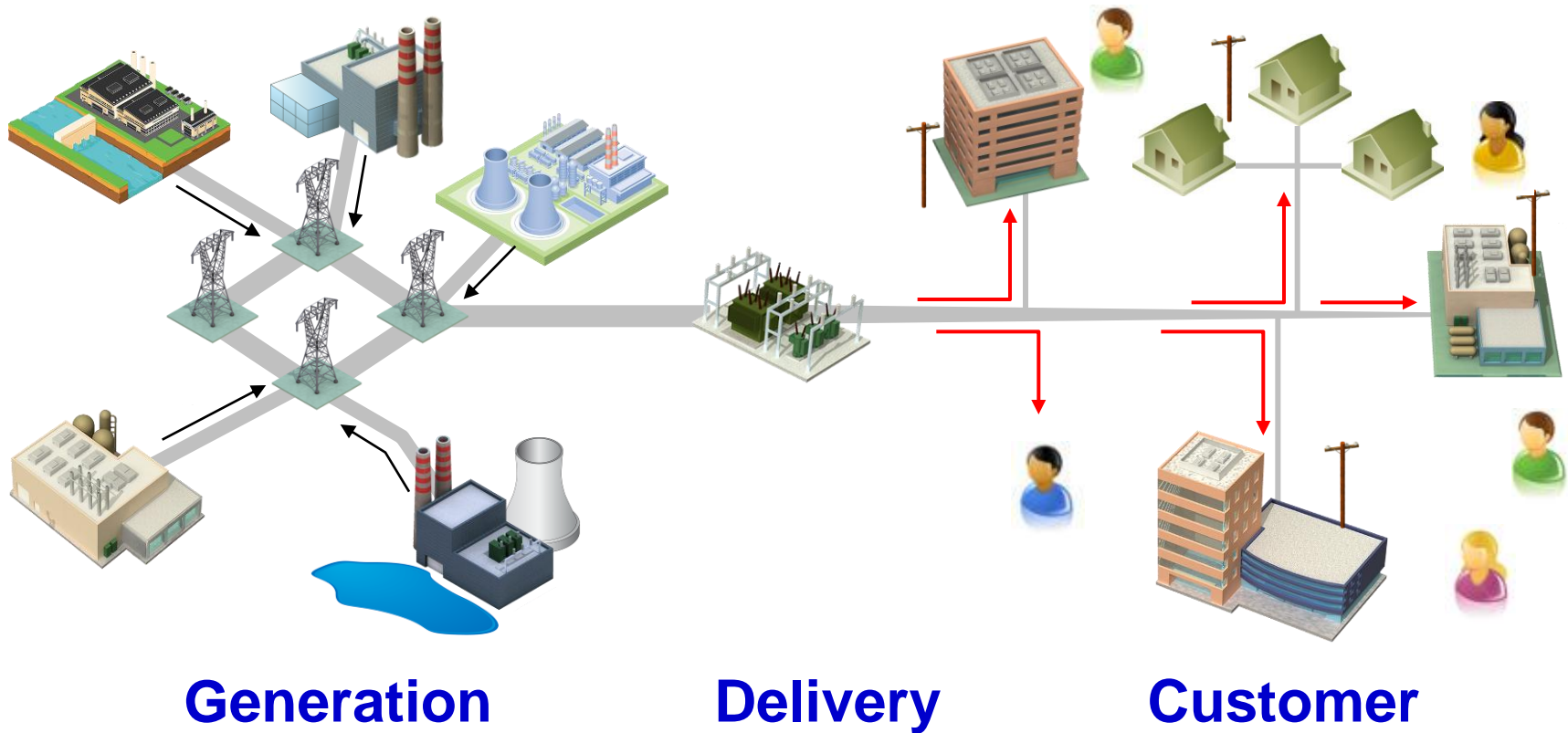
**EPRI Global Climate Seminar**  
May 21, 2013

# Our Continued Challenge

Provide society with...



# Today's Power System



**Base Load  
Generation**

+

**Load Following  
Generation**

+/-

**Bulk Energy  
Storage**

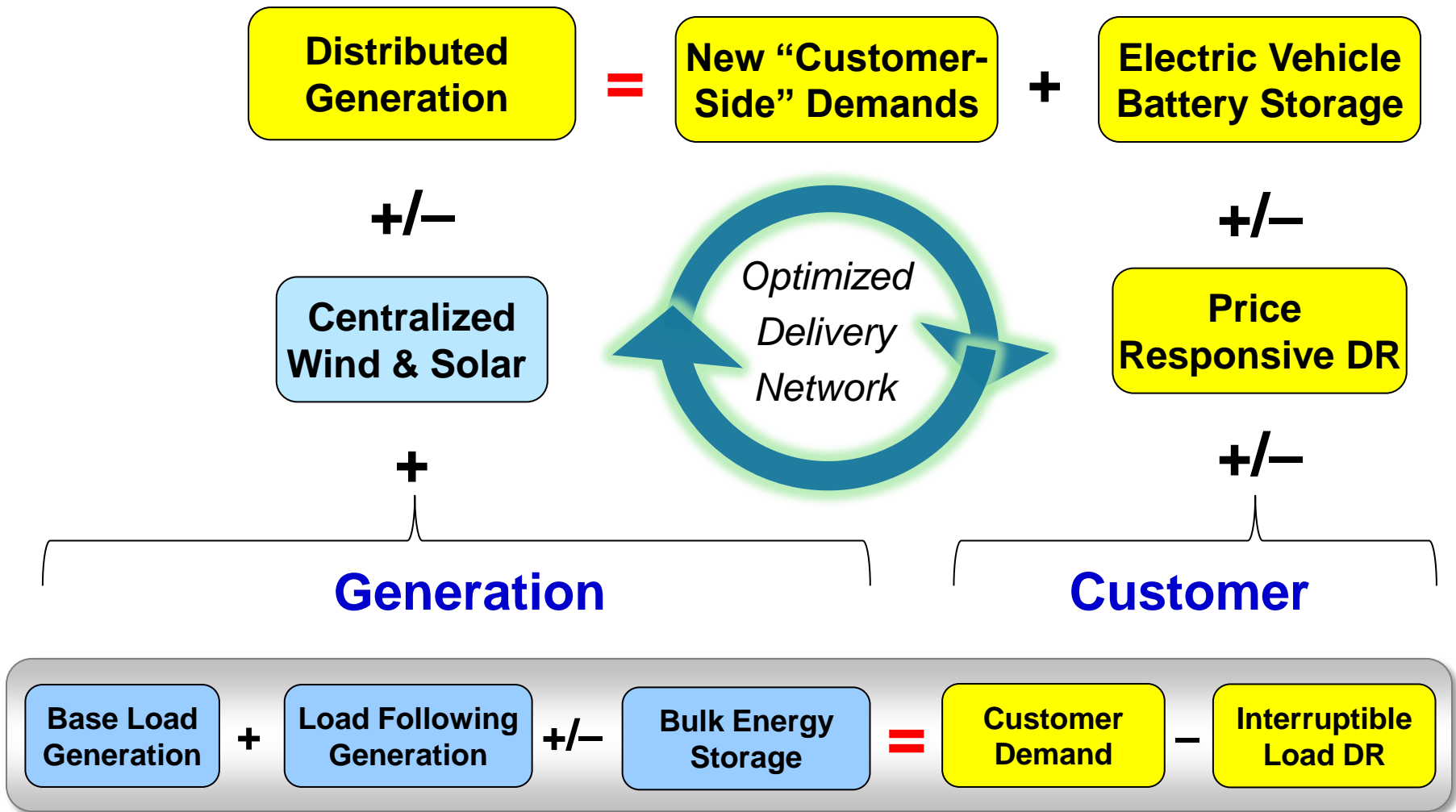
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**Customer  
Demand**

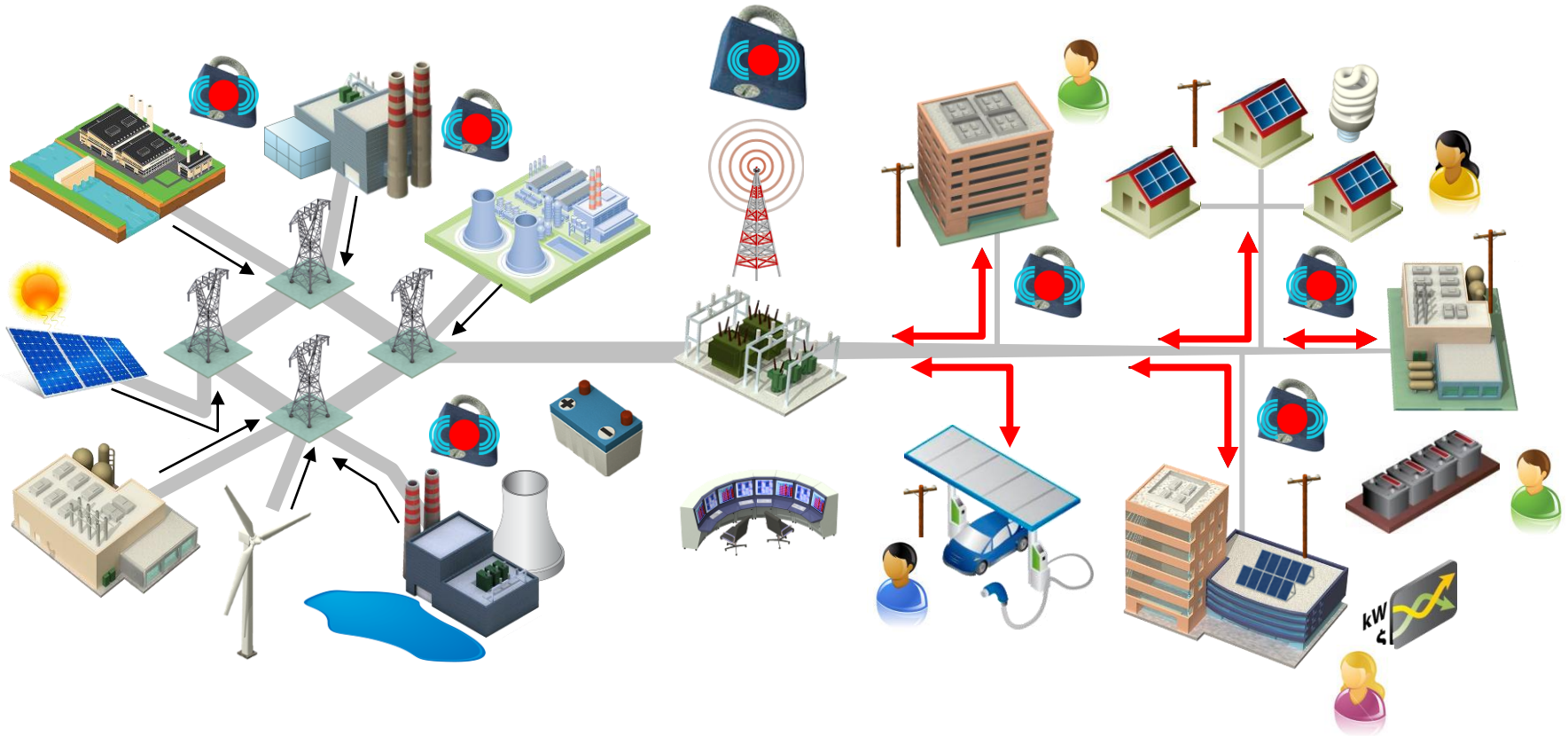
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**Interruptible  
Load DR**

# New Technologies, New Challenges



# Tomorrow's Power System ...



**How Soon? How Fast? What Business Model(s)?**

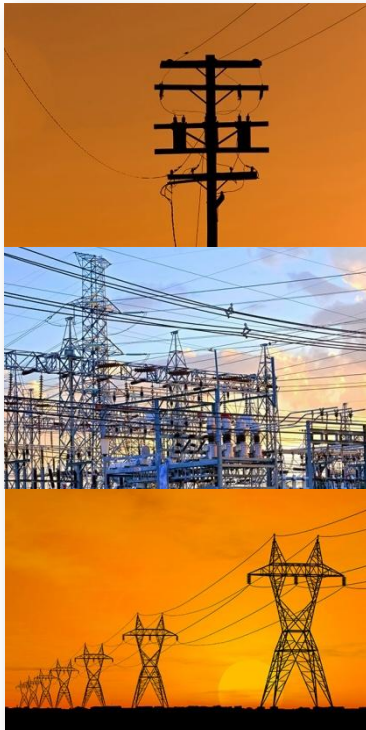


# The Future Customer Experience

- Energy Efficiency
- Smart Appliances
- Electric Vehicles
- Distributed Energy Resources
- Grid Flexibility



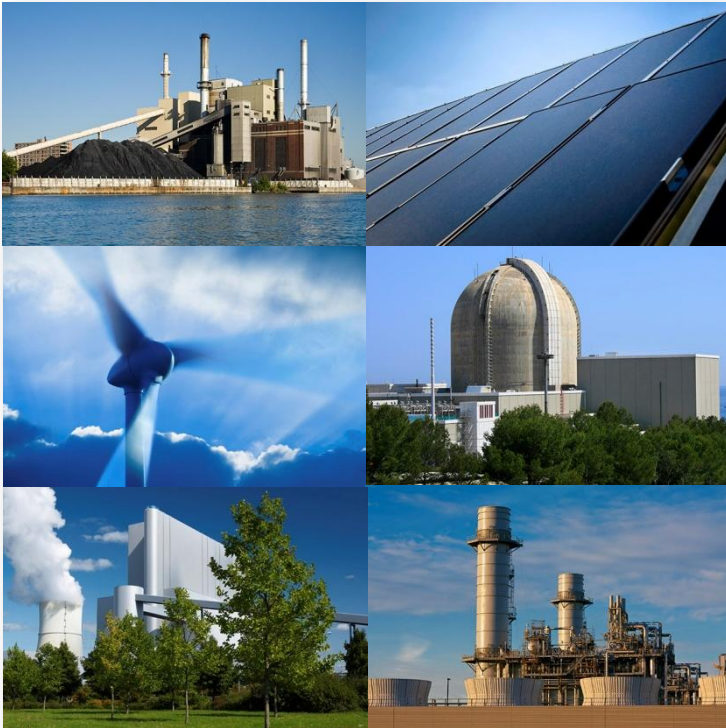
# The Future Delivery Networks



- Smart Energy Systems
- Sensors, Communication and Analysis
- Increased and More Flexible Power Flow
- Secure From Cyber and Physical Attack

# The Power Generation of the Future

- Long-Term Operations
- Near-Zero Emissions
- Natural Gas
- Renewable Energy
- Water Resource Management



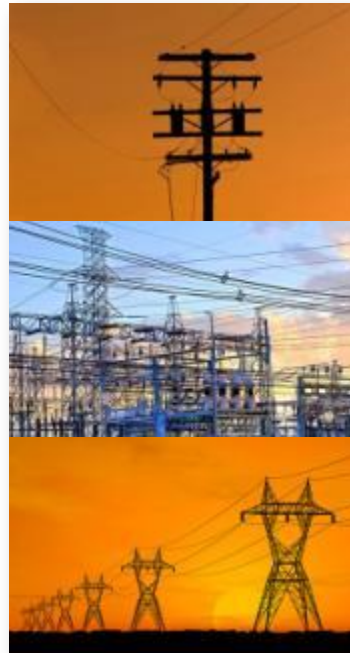


# The Power System of the Future

*The electricity industry will likely see more changes in the next 10 years than it has in the last 100*



Generation



Delivery



Customer

*How will YOU respond?*

## For More Information

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## Together...Shaping the Future of Electricity