

**WE HAVE
TECHNOLOGY.
LET'S GO.**

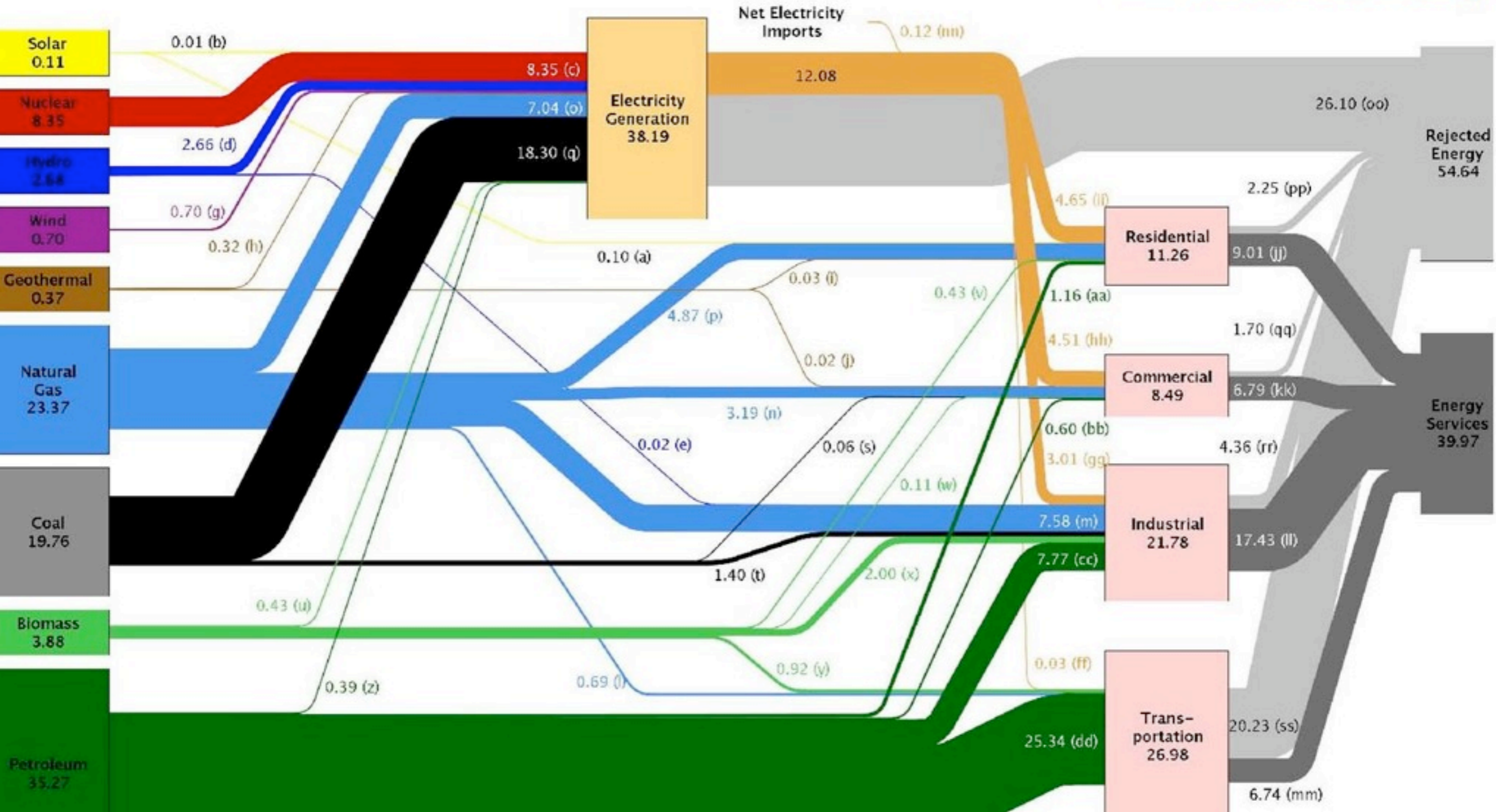
LET'S FIGURE OUT A WAY
TO CHARGE FOR SUNSHINE!

FIND OUT HOW EXISTING TECHNOLOGY
IS HELPING TO MEET THE ENERGY CHALLENGE
AT WWW.SHELL.US/LETSGO



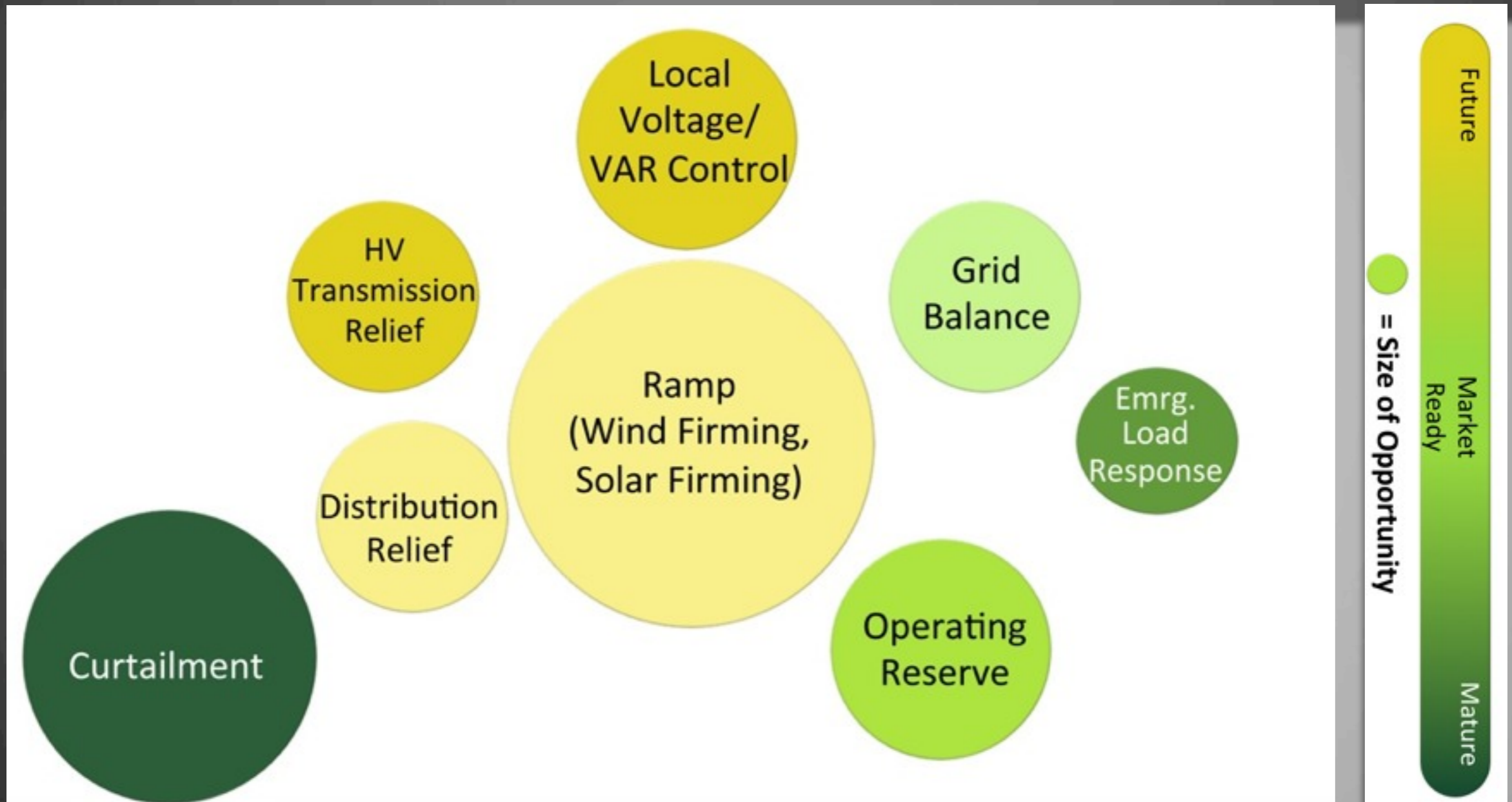


Estimated U.S. Energy Use in 2009: ~94.6 Quads



Market Maturity for Demand-Side Assets to Participate

Technology Required



Speed of Response



Carrier 5:35 PM

TENDRIL

DASHBOARD

Current price per kWh	\$0.10
Estimated bill	\$126.54
Today's cost	\$0.95
Yesterday's cost	\$1.30
Last hour usage	0.36 kWh



- Dashboard
- Control
- Settings

3G 9:42 AM

Voice Control

call
play
shuffle

Cancel

4G 9:42 AM

315° NW



37°19'55"N, 122°1'48"W



UNIVERSITY OF DELAWARE

PJM

Pepco Holdings Inc

V2G

Pepco Holdings Inc V2G

Vehicle-to-Grid Power (V2G)

How does it work?

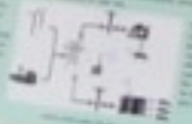
Summary: Vehicle-to-Grid Power (V2G) is a technology that allows electric vehicles (EVs) to provide power back to the grid. This is done by using the EV's battery as a storage device for power that can be sold back to the grid during peak demand periods.

Applications: V2G can be used in a variety of ways, including providing backup power for homes and businesses, and providing a source of income for EV owners. It can also be used to help stabilize the grid and reduce the need for fossil fuel power plants.

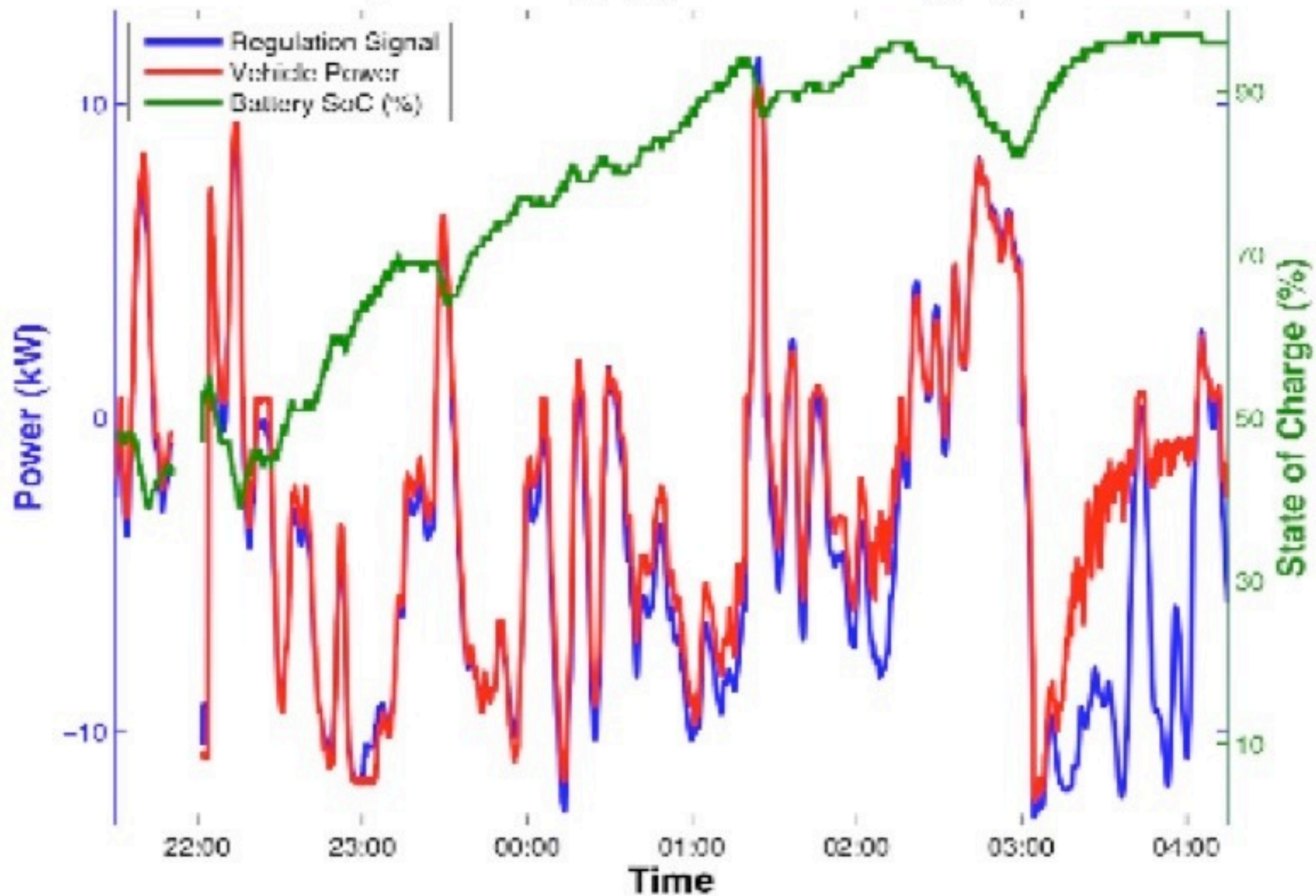
Benefits: V2G offers several benefits, including increased grid reliability, reduced emissions, and a new revenue stream for EV owners. It also helps to reduce the need for expensive power plants and transmission lines.

Challenges: There are several challenges associated with V2G, including the need for a robust charging infrastructure, the need for a regulatory framework, and the need for a market for V2G power. Additionally, there are concerns about the impact of V2G on the EV's battery life.

Conclusion: V2G is a promising technology that has the potential to revolutionize the way we use electricity. While there are still challenges to be overcome, the benefits of V2G are clear, and it is likely to become a major part of the energy landscape in the coming years.

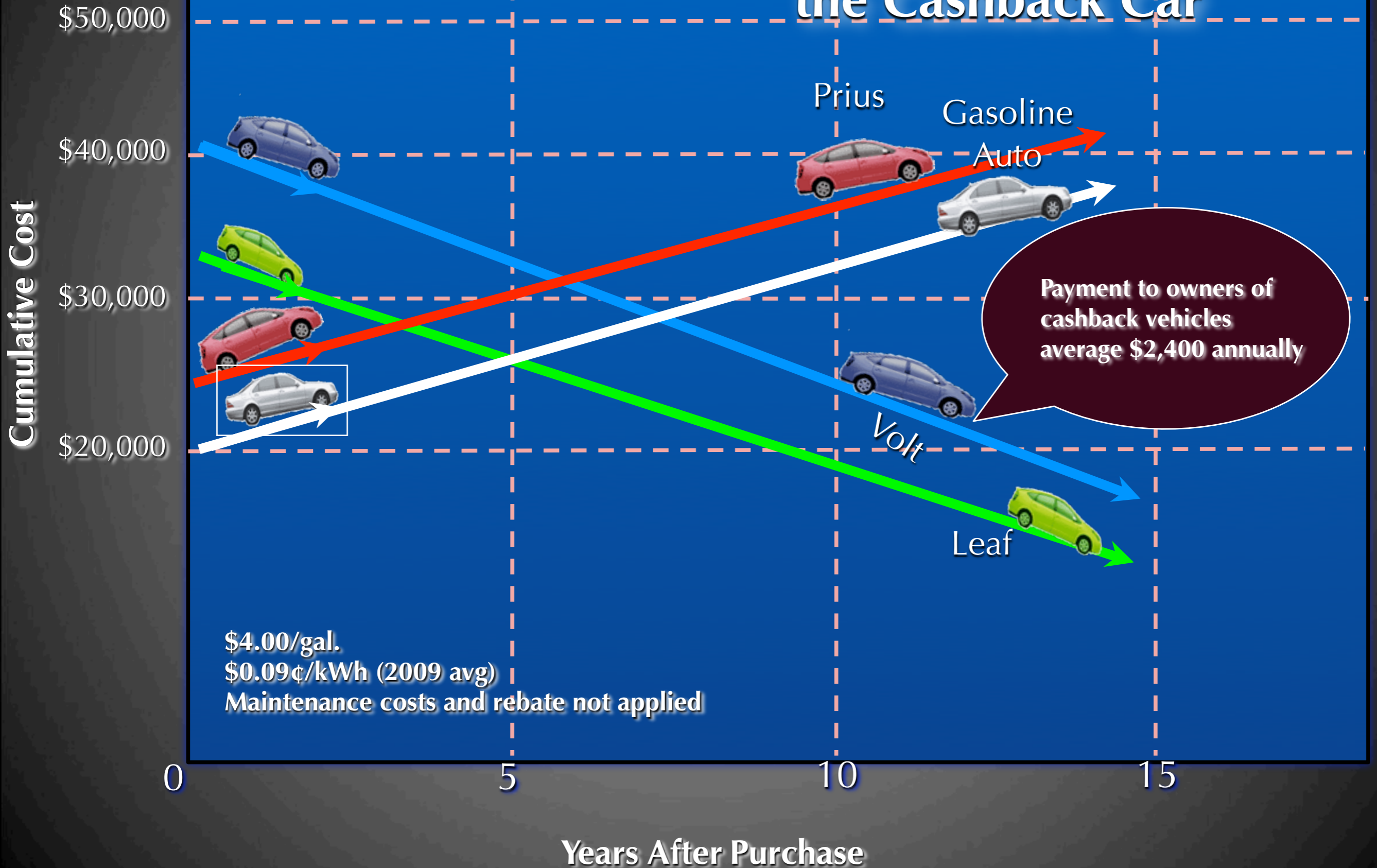


Regulation Supply (incidental charging)



LI-ION BATTERIES

Regulation Services and the Cashback Car





Schneider
Electric

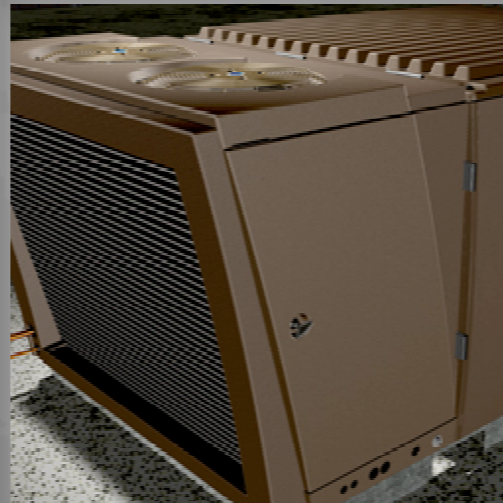
Schneider
Electric

Schneider
Electric

Transactive Load



ETS Heat



Ice-based AC



EV's

SmartBricks™ Value Drivers

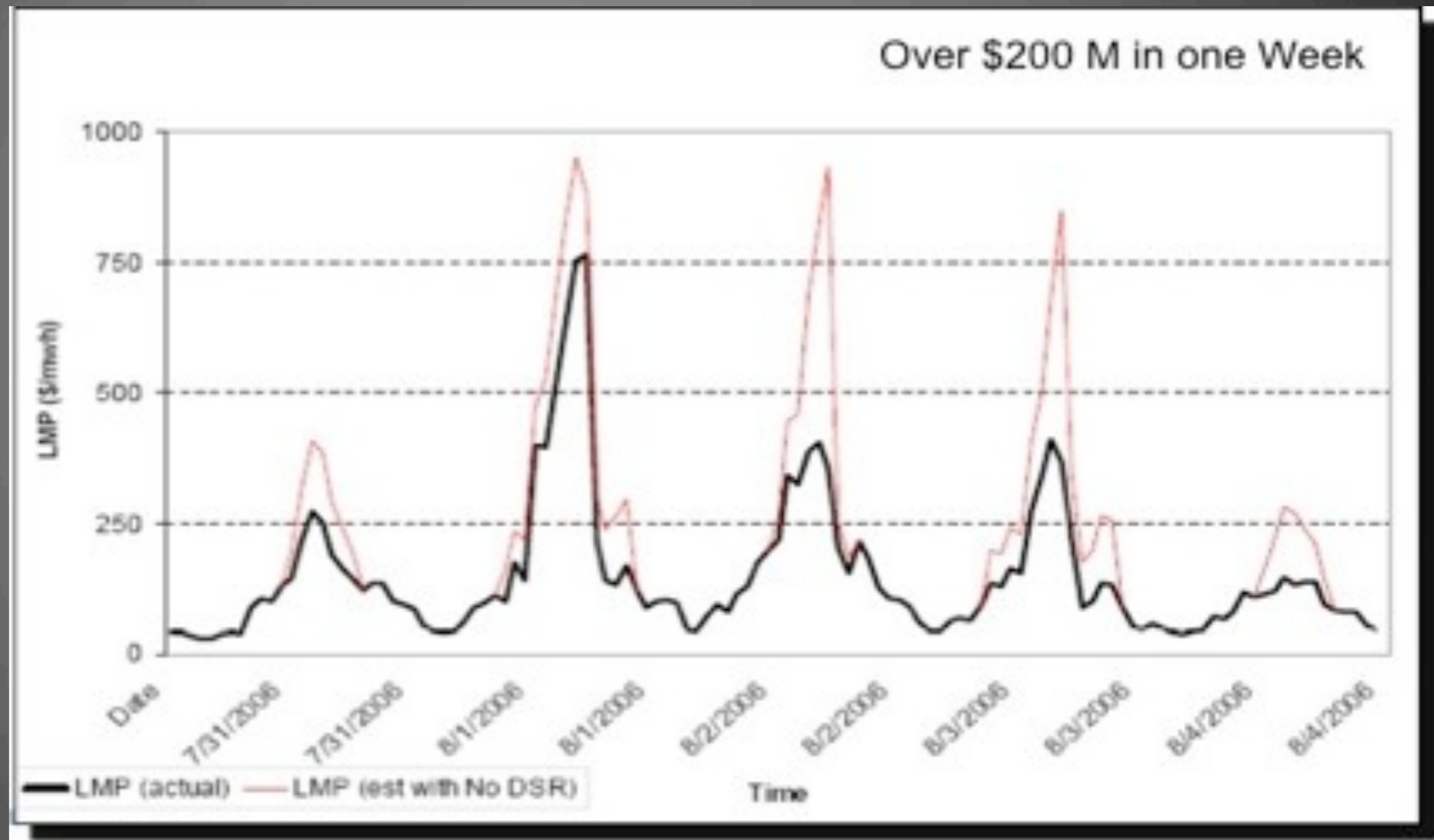
Provide Regulation to grid operator



Grid Benefits of Demand Response

- PJM Study- a 3% Reduction in Demand of Top 20 5hr Blocks in 5 Mid-Atlantic States Could Save \$280 Million annually

- Brattle Group- a 5% Reduction in Grid Peak Load (757 GW) Can Result in \$3 Billion Savings Annually, for PV Over 20 Yrs of \$31 Billion







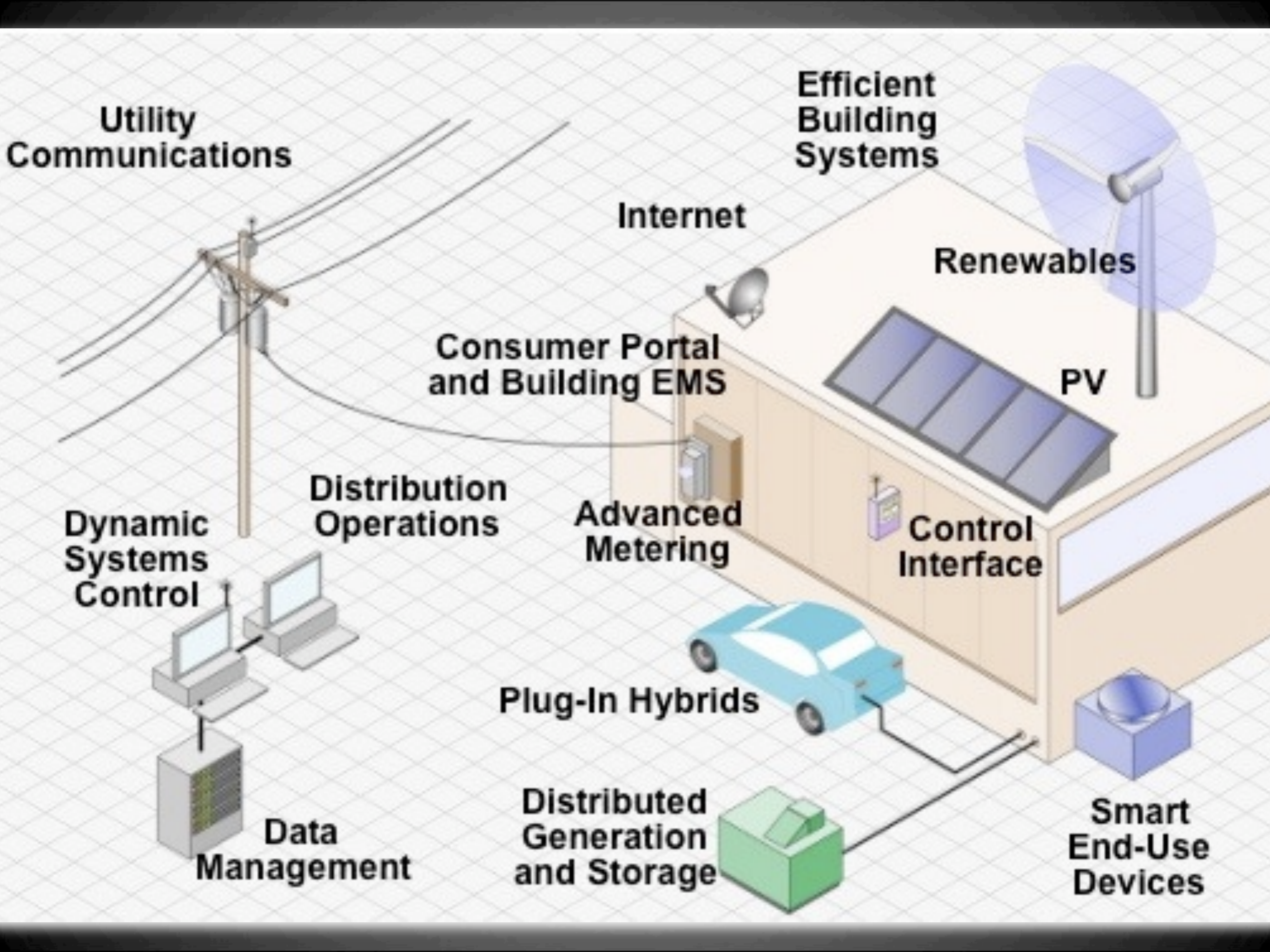


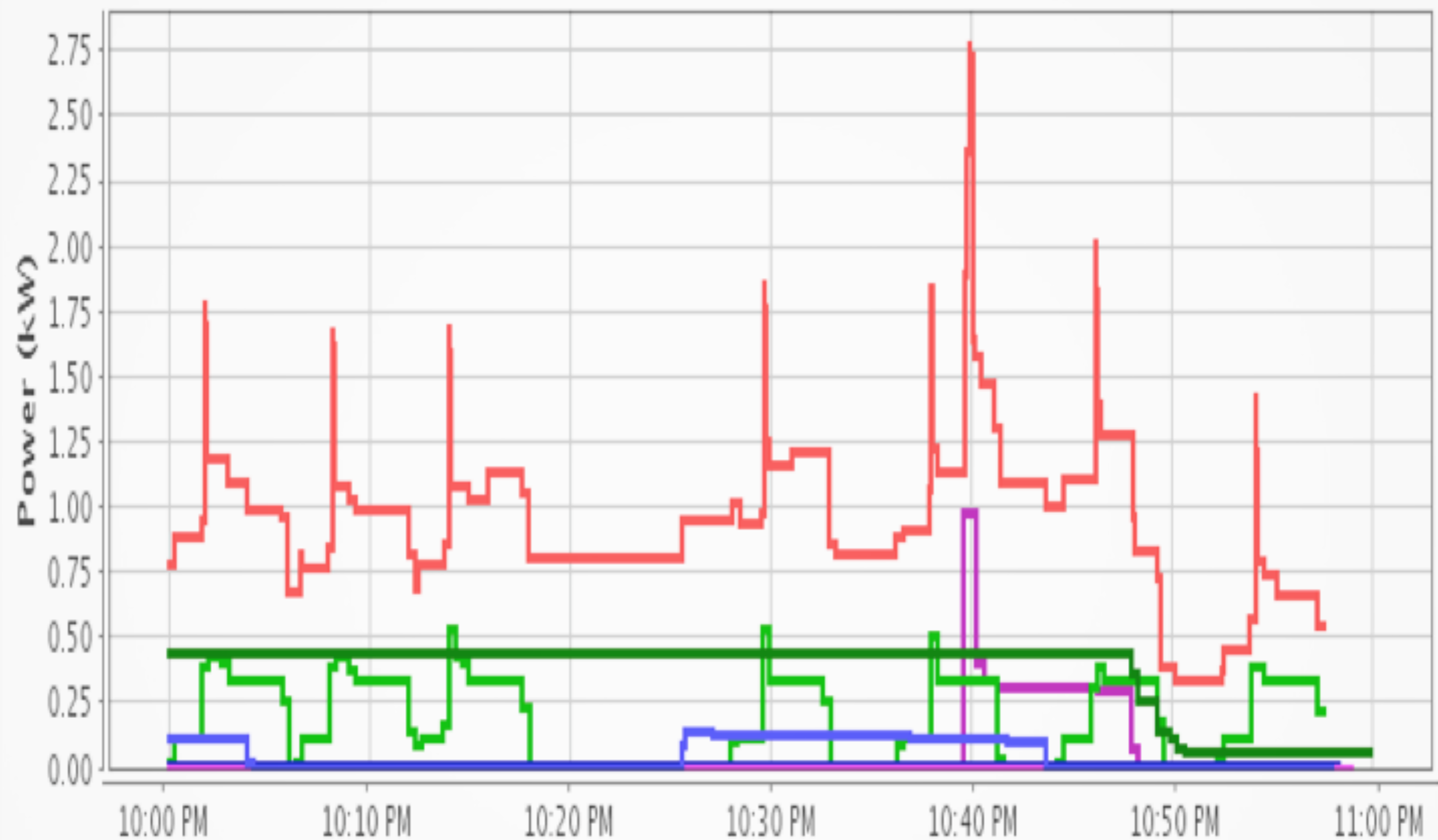
WCC-3

PRIORITY MAIL



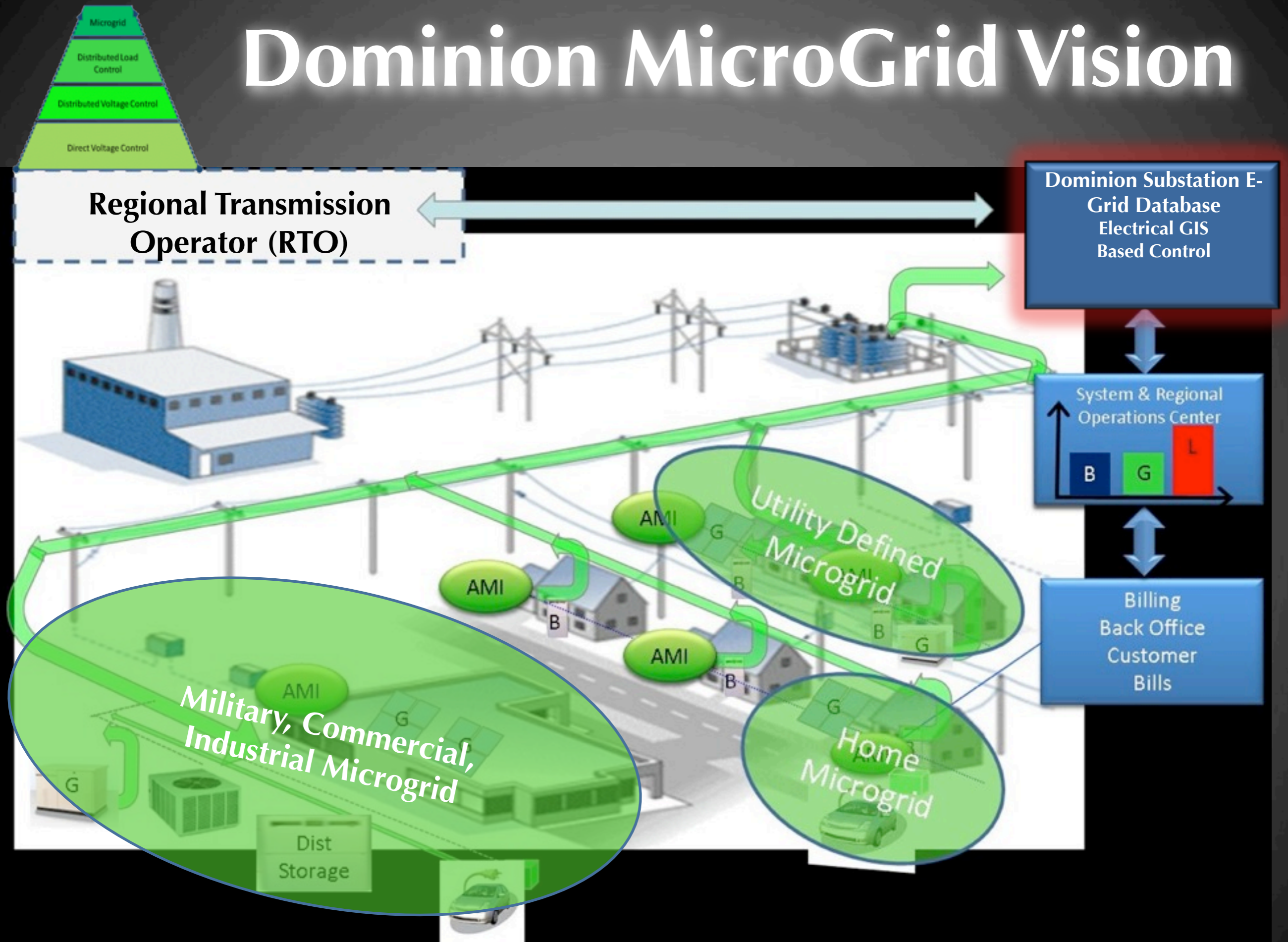






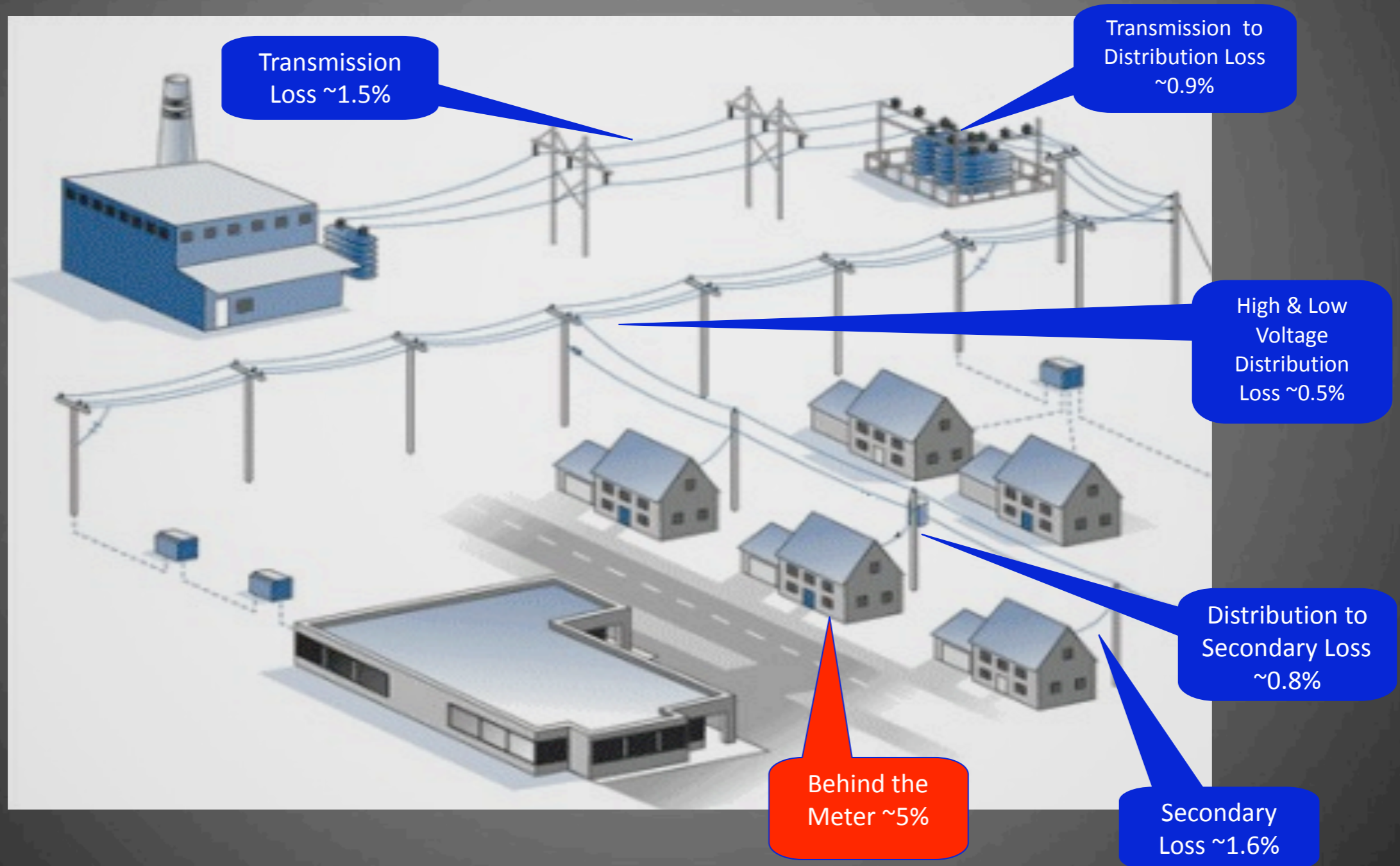
— Mains
 — Refrigerator
 — Family room
 — Dishwasher
 — Laundry
 — A/C - Down
 — A/C - up
 — Air Handler - up
 — Furnace - down
 — Sump pump

Dominion MicroGrid Vision

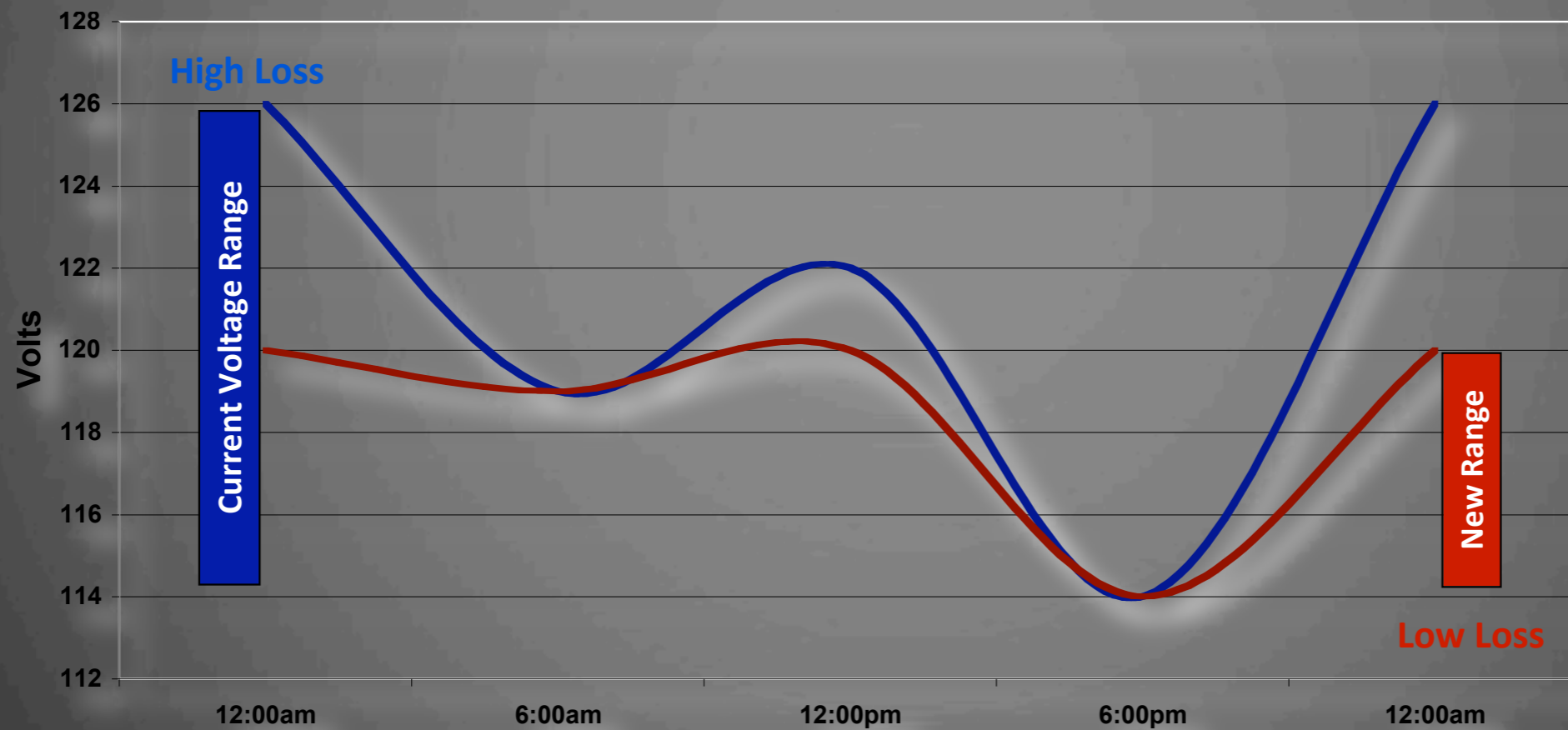


The Hunt for Transmission and Distribution Losses

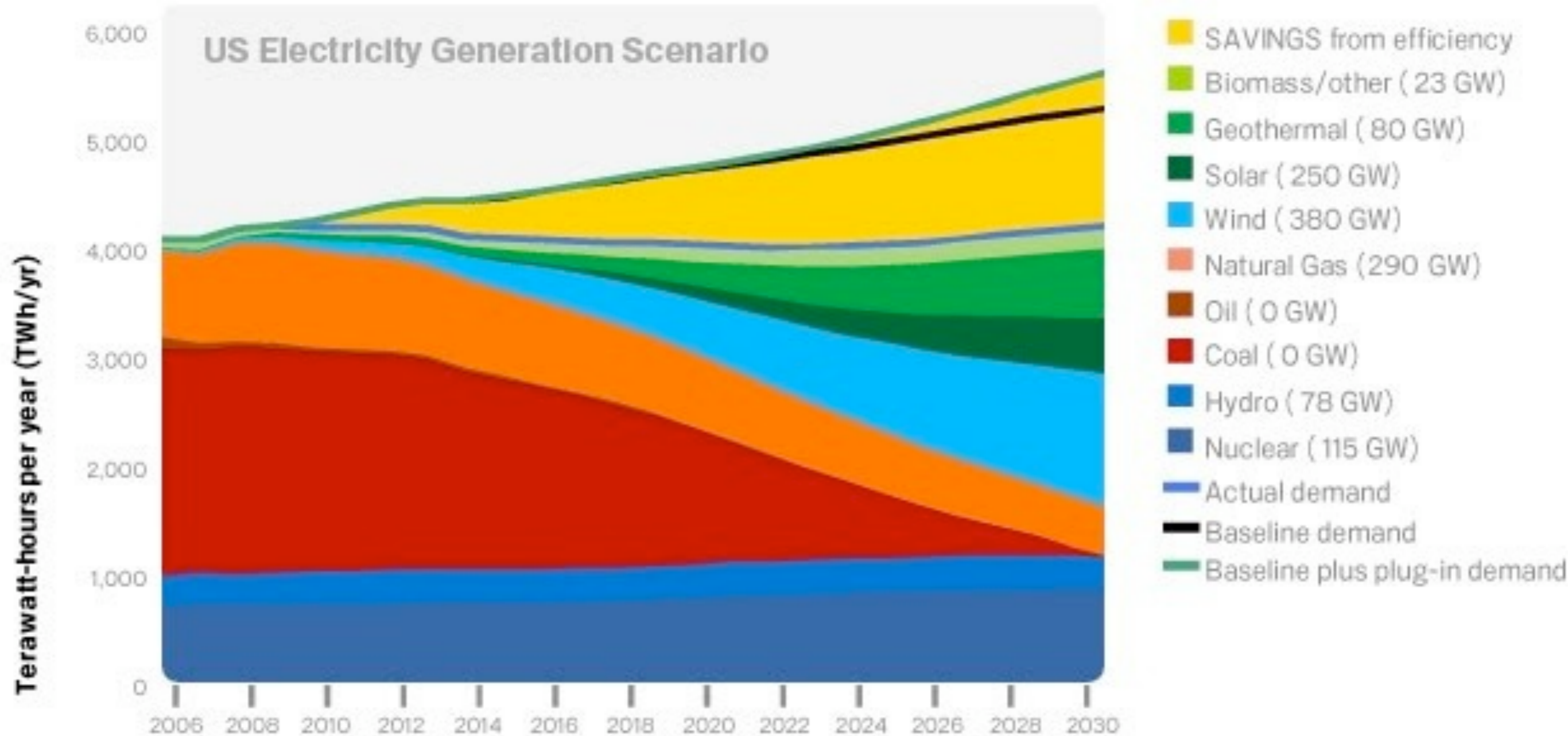
2010 Electric System Loss ~ 10.3% Includes Transmission, Distribution and "Behind the Meter"



Precision Power: How it Works



Google Electric Future



When there's a huge solar energy spill,
it's called a "nice day."

Pass the NY Solar Jobs Act

ENTER

A landscape photograph featuring a rainbow arching across a blue sky with scattered white clouds. In the foreground, there is a field of dry, golden-brown grass. Two large, white, lattice-structured power line towers stand prominently in the middle ground, with several power lines stretching across the frame. In the far distance, a city skyline is visible, including several tall, thin structures. The overall scene is bright and clear.

Thank you!