

# "Elections Have Consequences..." What Does It Mean for Grid Modernization?





Craig Glazer
Vice President – Federal Government Policy
March 7, 2017

www.pjm.com PJM©2017





### Some Notable Statistics

### **Popular Vote:**

• Trump: 61,021,031 47.01%

• Clinton: 62,523,126 48.03%

### **Electoral Vote:**

• Trump 306

• Clinton 232





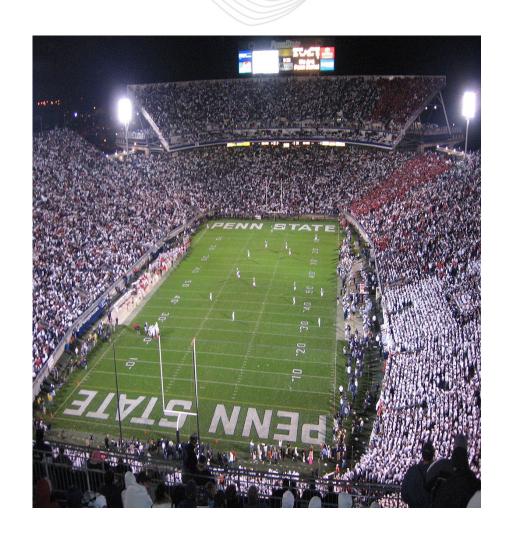


### **Total Trump Margin in WI, MI and PA:**

- Approx. 97,284 votes
- .08% of total votes cast

### Size of Penn State Beaver Stadium: 106,572

- Voters deciding this election would fit comfortably in Beaver Stadium (with room to spare)
- Hillary Clinton popular vote margin would fill
   28 Beaver stadiums
- Total vote would fill 1,159 Beaver stadiums





### The Path Ahead

### **Presidential Appointments**

4,000 Executive Appointments

### **Department of Energy**

- All Assistant Secretaries, Under Secretaries and Policymaking Positions
- Transition Leader: Tom Pyle "American Energy Alliance"

#### **FERC**

- Designation of the Chairman
- 3 Commissioner Positions Open
- No Republicans on FERC









# Trump Policy Positions

### "Bring back coal jobs"

- Target: EPA Clean Power Plan
- Federal support for clean coal initiatives

### "America First" Energy Plan

- Support for Infrastructure
- Executive Order calling for use of U.S. steel and iron in all pipeline projects
- "Energy Independence"
- Taxing revenues from energy production







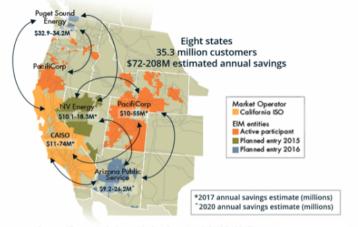


# More subtle implications

- Power of the FERC Chairman
- Senate Energy Committee: Stable leadership, western dominance, New England detractors
- House Energy & Commerce Committee: Support for baseload generation, negative experience with MISO capacity market
- A sleeper: Success or failure of the California Energy Imbalance Market



### THE WEST'S ENERGY IMBALANCE MARKET



Source: "Energy Imbalance Market Overview," CAISO (2015)



# **Electricity Policy Headaches**

2017 Checklist









# Electricity Policy Headaches: Headache #1

### Can/should the administration do more to 'preserve baseload'

- What is "baseload' anyway?
- Are we over-dependent on natural gas? How is 'overdependent' measured when cerating to N
- Need to build "pipes and wire
  - Are FERC's regulations a
  - Is this all a permitting/environs problem?
- Can this fit into a tweet?



new pipe built?

eeper economic



# Electricity Policy Headaches: Headache #2

# Is the grid vulnerable to cyberattack? What is the role of the federal government?

- More latitude to industry vs. 'weakest link' concerns?
- Does impact to the overall economy drive more government response or a 'trust business to do the right thing" approach?
- Where does the federal government's authority start and end stop under its national security authority?
- What does Rudy think?







# Electricity Policy Headaches: Headache #3

### Accommodating State Actions to Promote State Policies

- Should FERC step in to adjust for state policy actions that distort competitive market outcomes?
- Which policy is superior?
  - Federal policy supporting nondiscriminatory competitive markets?
  - State policies that subsidize and support individual state policy goals e.g. protection of nuclear, protection of jobs, local economic development, etc.
- For Governor Christie: Is this a bridge too far?







### POLICY CHOICES...

The Long and Winding Road...





- Transmission: Built to support major generation projects
- Connect distant generation to load;
   Distribution: One way delivery of power to the home
- Grid Costs: Rate-based to the home utility's customers
- ROI: Little focus on transmission as a stand alone business element



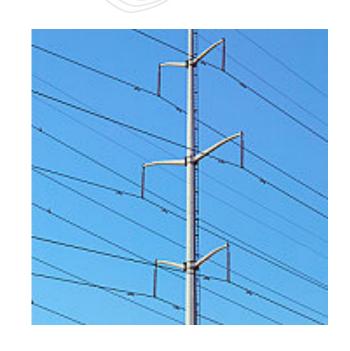


### Policy Choice #1

Is the grid an enabler or a competitor?

Grid as an Enabler?

- Accept the grid as a natural monopoly
- Drive solutions through regulation
- Provide incentives for innovation





# Policy Choice #1 (cont'd)

# Grid as a Competitor?

- Grid development must compete with generation or demand side
- Grid entrepreneurs take risk: no guaranteed
   ROI
- Grid pricing reflects competitive outcomes: Bid solutions into the marketplace (RPM)



# The Policy Choices: Defining What We Want?

Policy Choice #2: A Strong or Weak Grid? Characteristics of the "Strong" Grid:

- Generation distance from load
- Meet the needs for future transmission expansion

15

- Costs socialized to reflect interconnected nature of the grid
- Broad regional approach





# The Policy Choices: Defining What We Want?

### **Policy Choice #2**-The Alternative:

The localized grid...

- Generation closer to load
- Centralized focus on development of DSR, energy efficiency and renewables
- Transmission/distribution grid as an enabler of alternative generation
- Transmission focused on meeting state/local needs

16





### Policy Choice #2: Decision Points

- Siting: Regional vs. Local Needs
- Cost Allocation: Socialization vs. Direct Assignment
- IRP/RPS vs. Competitive Procurement
- Short term procurement vs. long term





# The Policy Choices: Defining What We Want?

# Policy Choice #3: Determine the Planning Philosophy

- Transmission decisions driven by generation investment or generation investment influenced by the planned transmission grid?
- Role of the Planning Authority





# An Added Complication:

Who Decides?



19 PJM©2017





- States:
  - State Energy Policies:Governors/legislators
  - State PUCs
- FERC
  - FERC Review of Planning
    - Who chooses projects?
- Environmental Agencies
  - Non-attainment areas
  - RGGI et al.









# AVOIDING THE QUAGMIRE OF INACTION

"Hanging in mid-air": a dangerous place





# The Task Ahead: Blocking, Tackling & Teamwork!







22 PJM©2017



# LET'S TALK...



Craig Glazer
Vice President-Federal Government Policy
PJM Interconnection
202-423-4743
CRAIG.GLAZER@PJM.COM