

Critical Energy Infrastructure

Denise Foster
Vice President, State & Member
Services
PJM Interconnection

AABE Annual Conference
April 20, 2012

facebook

Hi,

Lynn wants to be your friend on Facebook. No matter how far away you are from friends and family, Facebook can help you stay connected.

Other people have asked to be your friend on Facebook. Accept this invitation to see your previous friend requests



Lynn Eury

NC State University

69 friends · 5 Wall posts

Accept Invitation

Go to Facebook

This message was sent to cab_team_mem@pjmxch01.pjm.com. If you don't want to receive these emails from Facebook in the future or have your email address used for friend suggestions, please click: [unsubscribe](#).

Facebook, Inc. Attention: Department 415 P.O Box 10005 Palo Alto CA 94303

bject: Job Opportunity

If you are taking a career break, are on a maternity leave, recently retired or simply looking for some part-time job, this position is for you.

Occupation: Flexible schedule 2 to 8 hours per day. We can guarantee a minimum 20 hrs/week occupation

Salary: Starting salary is 2000 EUR per month plus commission, paid every month.

Business hours: 9:00 AM to 5:00 PM, MON-FRI, 9:00 AM to 1:00 PM SAT or part time (Europe time).

Region: Europe.

Please note that there are no startup fees or deposits to start working for us.

To request an application form, schedule your interview and receive more information about this position please reply to Marsha@jobdayseu.com, with your personal identification number for this position IDNO: 6869

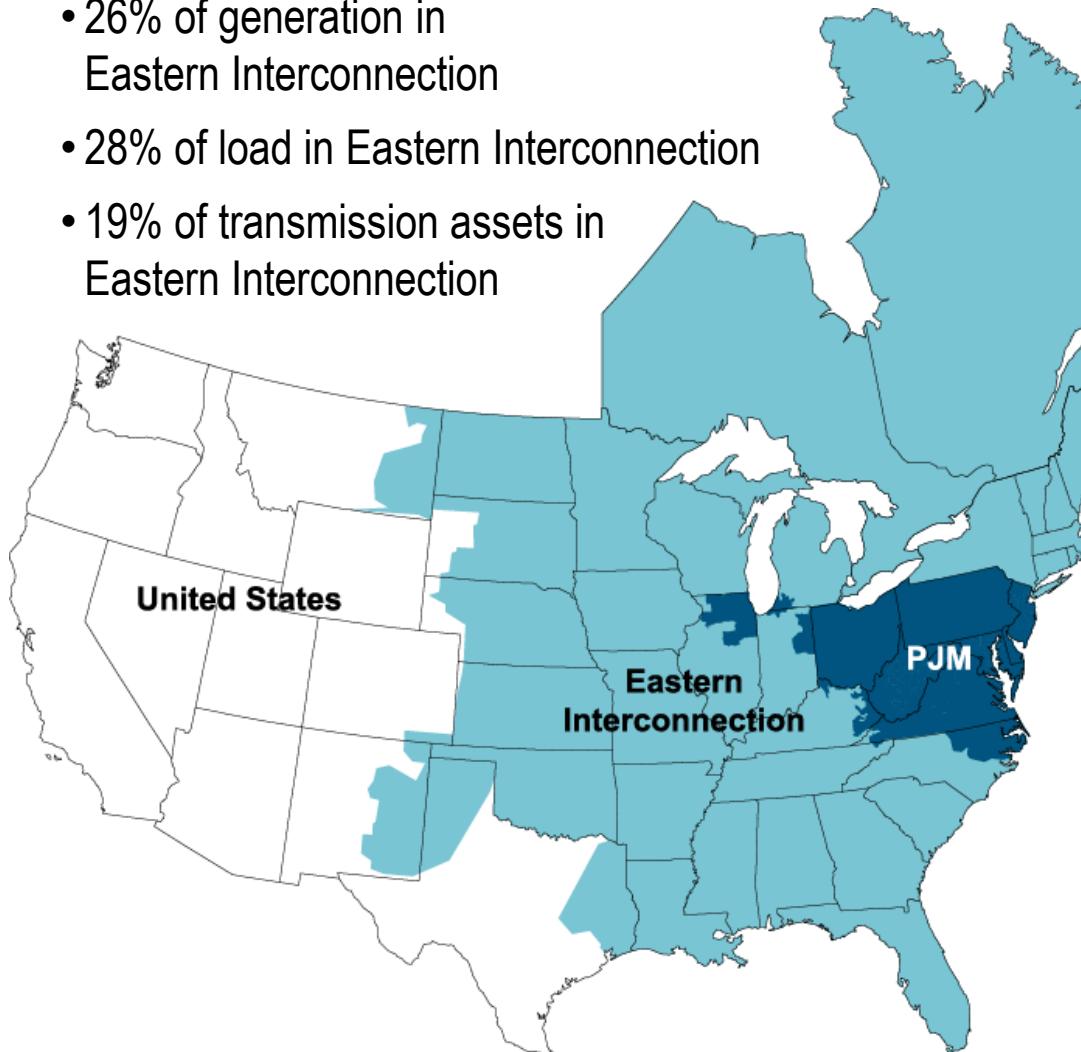


PLC and Step7



PJM as Part of the Eastern Interconnection

- 26% of generation in Eastern Interconnection
- 28% of load in Eastern Interconnection
- 19% of transmission assets in Eastern Interconnection



KEY STATISTICS

PJM member companies	750+
millions of people served	60
peak load in megawatts	163,848
MWs of generating capacity	185,600
miles of transmission lines	62,591
GWh of annual energy	832,331
generation sources	1,365
square miles of territory	214,000
area served	13 states + DC
Internal/external tie lines	142

**21% of U.S. GDP
produced in PJM**

As of 1/4/2012

PJM – Focus on Just 3 Things

Reliability

- Grid Operations
- Supply/Demand Balance
- Transmission monitoring

1

Regional Planning

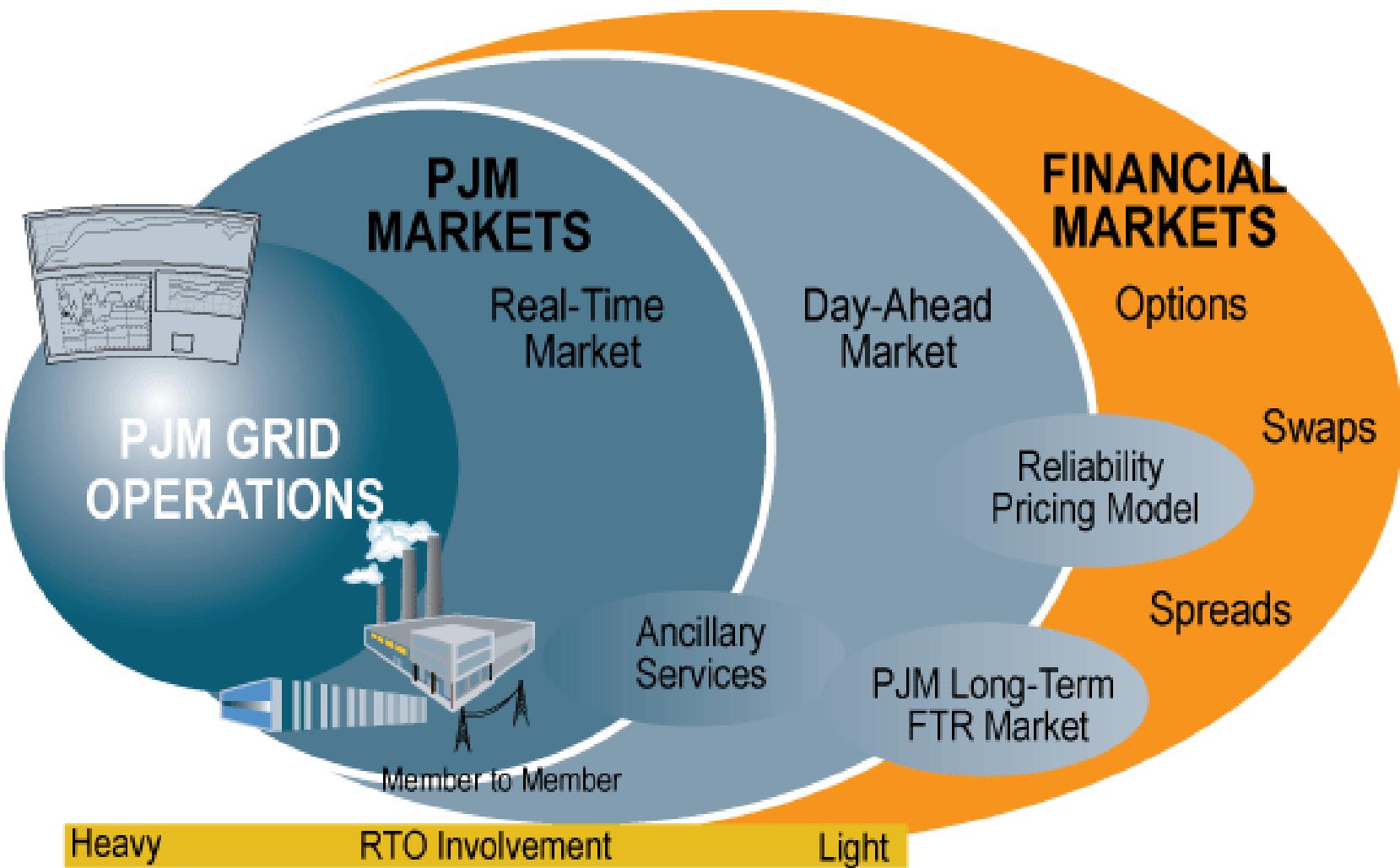
- 15 Year outlook

3

Market Operation

- Energy
- Capacity
- Ancillary Services

2



“...we must address emerging risks with diligence, commitment, and the understanding that we cannot reroute hurricanes, intercept every cyber attack, or prevent every disruption.”

Source: National Infrastructure Advisory Committee

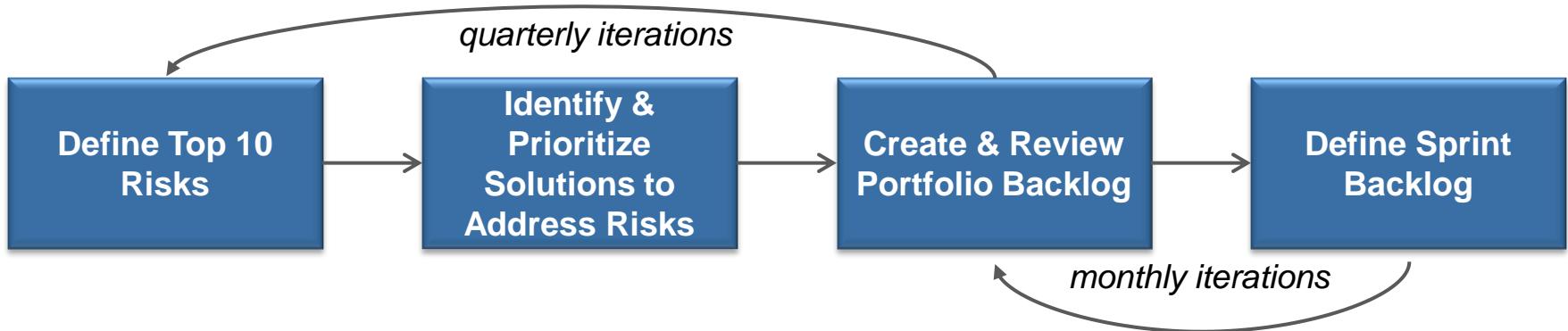
It's about making cyber-security paramount

- Defense in Depth
- Segmentation
- Research
- Standards
- Investment



- Objectives: Program created to prioritize and manage resources, dependencies, scope, schedule and budget across PJM
 - Standard qualitative risk based approach
 - Identifies top threats/risks
 - Risks ranked into critical, moderate, or low – based on likelihood and impact
 - Risks used to evaluate a suite of solutions
 - Provides a process to prioritize and rank new initiatives or requests

Risk Assessment



Key Risks

- Increasing connectivity
- Proliferation of access points
- System complexity
- Greater interdependencies
- Outsourcing and reliance on foreign products
- Aging systems – limitations in existing equipment
- Knowledge sharing resistance

Resiliency Measures

- Security Architecture Framework
- Strong user authentication controls
- Configuration controls
- Vulnerability controls
- Encryption on the wire
- Data integrity checks
- Intrusion detection – event logging and correlation
- White listing – permitted actions

