

Advanced Technology Pilot Program - Update

Scott Baker Applied Innovation

Emerging Technologies Forum December 7, 2021

www.pjm.com | Public PJM©2020



Process Refresher

Questionnaire

go

Questionnaire submitted by applicant for PJM evaluation.

STOP

Scope of Work

PJM and Pilot Applicant draw up scoping document defining high-level objectives, roles and responsibilities, testing procedures, etc.

go

Pilot Agreement

The Pilot Agreement is a legal document that provides for the overall terms and conditions of the pilot.

go

Phases of Work

- I. Implementation
- 2. Testing
- 3. Data Analysis
- 4. Reporting/Publication

STOF

STOP

STOP



Types of Pilots

New Market Concepts





Collaborative Studies

Energy Storage as a Transmission Asset

PJM Interconnection

Scott Baker Bhavana Keshavamurthy Muhsin Abdurrahman

Xtreme Power

ike Jacobs ormerly) Director, Market Policy and



Technology Deployment



Factors in selecting a Pilot

Value to PJM & Membership

• Estimated value to competitive markets, operations, transmission planning, and other services provided to membership and industry

Feasibility

- Funding; Capability of Pilot partners
- Technology, legal, or regulatory risk

Stakeholder Input

Direct member feedback through Emerging Technology Forum, other venues

Emerging Technologies Evaluation Framework



Active Pilot Discussions

Hybrids DER Grid Carbon Enhancing Technologies

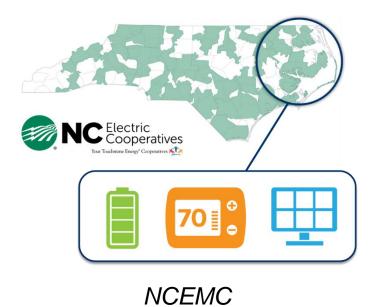
Questionnaires Received in 2021

- Low-speed wind turbine technology
- Steam turbine efficiency retrofit technology
- Advanced transmission line monitoring
- Unconventional, non-chemical long-duration storage
- Microgrids

www.pjm.com | Public PJM©2020

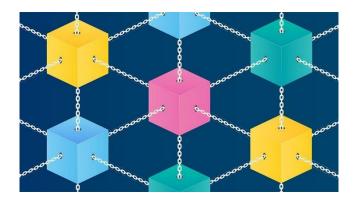


Recently Completed Pilots





Microsoft



Energy Web Foundation



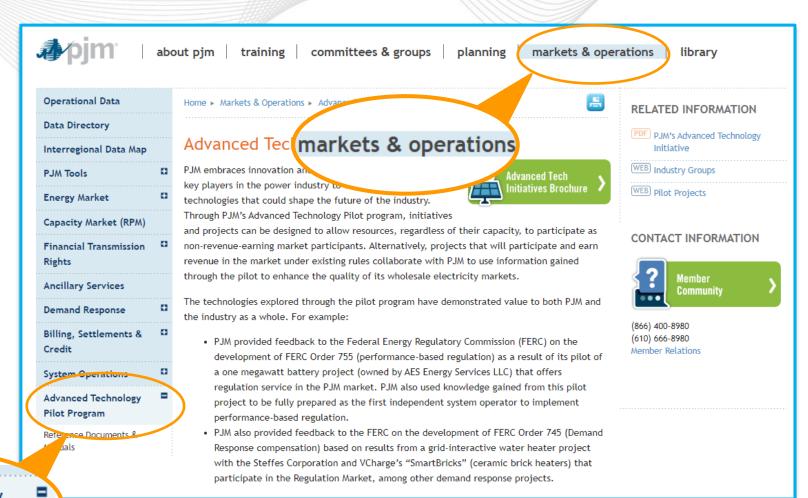
Resources

Pilots.pjm.com

Questionnaire

Results

Advanced Technology Pilot Program







Facilitator:

Danielle Croop,

Danielle.Croop@pjm.com

Secretary:

Yuri Smolanitsky,

Yuri.Smolanitsky@pjm.com

Presenter:

Scott Baker, Scott.Baker@pjm.com

Advanced Technology Pilot Program



Member Hotline

(610) 666 - 8980

(866) 400 - 8980

custsvc@pjm.com