

HB 773 / SB 715

Energy Storage Study

PPRAC Working Group Kick-Off

July 18, 2017

Acronyms



- **AWEA:** American Wind Energy Association
- **BGE:** Baltimore Gas and Electric Company
- **EI:** Edison Electric Institute
- **EPRI:** Electric Power Research Institute
- **ESA:** Energy Storage Association
- **FERC:** Federal Energy Regulatory Commission
- **GE:** General Electric
- **IREC:** Interstate Renewable Energy Council
- **KCPA:** Kent Conservation and Preservation Alliance
- **MCEC:** Maryland Clean Energy Center

Acronyms (Cont.)



- **MEA:** Maryland Energy Administration
- **NRECA:** National Rural Electric Cooperative Association
- **OPC:** Office of People’s Counsel
- **PEPCO:** Potomac Electric Power Company
- **PJM:** Pennsylvania New Jersey Maryland Interconnection, LLC
- **PPRP:** Power Plant Research Program
- **PSC:** Public Service Commission
- **RMI:** Regional Manufacturing Institute
- **SEIA:** Solar Energy Industries Association
- **UMERC:** University of Maryland Energy Research Center

Agenda



- Welcome and Overview
- Member Introductions
- Strategy
- Draft Outline
- Next Steps

Overview



Senate Bill (SB) 715 and House Bill (HB) 773

Clean Energy - Energy Storage Technology Study

- Requiring the Maryland Power Plant Research Program (PPRP) to conduct a study to determine what regulatory reforms and market incentives are necessary or beneficial to increase the use of energy storage devices in Maryland

PPRAC's Role



- PPRP shall conduct a study to determine what regulatory reforms and market incentives are necessary or beneficial to increase the use of energy storage devices in the State
- PPRAC Working Group member commitment:
 - Provide input on study strategy
 - Provide feedback during periodic webinar-based progress reports
 - Review draft text
 - Additional input as desired by members

Project Milestones



- **Major Milestones:**

- January 31, 2018: Preliminary Findings and Status
- July 31, 2018: Draft Report
- December 1, 2018: Final Report to General Assembly

- **Internal Milestones:**

- April 15, 2018: Initial Draft Report
- August 2018: Public meetings (timing flexible)
- October 31, 2018: Final Report for Executive Review
- TBD: Memoranda and presentations, as requested



Member Introductions



HB 773

PPRP shall consult with:

- The Public Service Commission (PSC)
- The Office of People's Counsel (OPC)
- The Maryland Energy Administration (MEA)
- Environmental Organizations
- Electric Companies
- Third-party providers of energy storage devices
- Associations of third-party providers
- The University of Maryland Energy Research Center (UMERC)
- The Maryland Clean Energy Center (MCEC)
- Developers and owners of electricity generation
- Other interested parties



Member Introductions (Cont.)



Members:

- Pete Dunbar, Chair
- Misty Allen, BGE
- David Comis, MEA
- Sean Emerson, Office of Del. Korman
- Bill Fields, OPC
- Nitzan Goldberg, ESA
- Andrew Johnston, PSC
- Janet Christian-Lewis, KCPA
- Ivan Lanier, PEPCO
- Anne Lindner, Exelon
- Kathy Magruder, MCEC
- Kent Mottice, MEA
- Katie Nash, Greenwill
- Eveyln Robinson, PJM
- Eric Wachsman, UMERC

Project Strategy

- Literature review reports by EEI, EPRI, FERC, IREC, PJM, RMI, other states, etc.)
- PPRAC Working Group meetings (monthly, as needed)
- PPRAC meetings (every spring and fall)
- Public meeting(s) to preview major findings and invite feedback on Draft Report
- Site visit(s) to view and discuss features of one or more working energy storage systems in the region: **AES Warrior Run**



Project Strategy



- **1 on 1 meetings/calls:**

- AWEA
- EPRI
- Exelon
- IREC
- NRECA
- NRG Energy
- OPC
- SEIA
- **Delegate Korman**
- **EEI**
- **ESA**
- **MCEC**
- **MEA**
- **PJM**
- **PSC**
- **UMERC**
- Storage Developers:
 - Alevo
 - Edison Energy
 - GE Energy Storage
 - Flonium
 - Tesla
 - Sunverge
 - WindSoHy

- **News monitoring**

- Utility Dive
- Energy Storage News
- GreenTech Media

Policy Recommendations

- HB 773 requires policy recommendations as part of the Energy Storage study
- Throughout the research process, PPRP will document barriers to energy storage identified by stakeholders and recommendations for addressing these barriers through regulatory reforms or market incentives
- Well-reasoned, divergent perspectives on key policy questions will be presented and discussed in the Final Report, as will the rationale behind the Report's final recommendations on such matters



ENERGY STORAGE

Study Outline



- PPRP's Draft Outline is a working document, intended to evolve as we continue our in-house research, receive feedback from PPRAC, and meet with a wide range of experts and stakeholders
- Our objectives today:
 - Identify key factors that should be considered within section of the report
 - Identify missing topics and gather other initial feedback on the overall structure

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