

HB 773 / SB 715

Energy Storage Study

Status Update

October 26, 2017

Project Milestones (recap)



- **Major Milestones:**

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

- **Internal Milestones:**

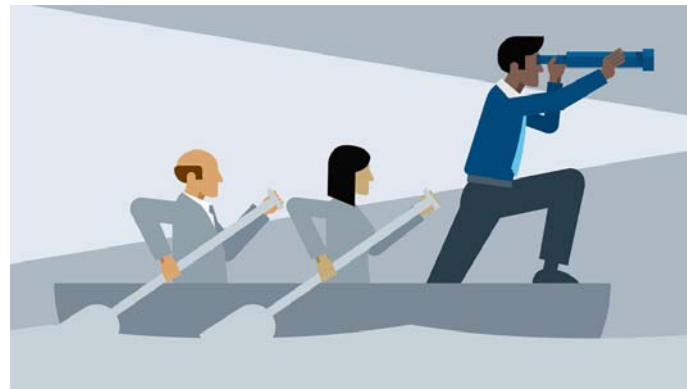
- April 15, 2018: Initial Draft Report
- August 2018: Public meetings (timing flexible)
- October 31, 2018: Final Report for Executive Review
- TBD: Memoranda and presentations, as requested



Project Strategy (recap)



- Literature review (reports by EEI, EPRI, ESA, FERC, IREC, PJM, RMI, other states, etc.)
- PPRAC meetings (every spring and fall)
- PPRAC Working Group meetings (bi-monthly, as needed)
- Site visit(s) to view and discuss one or more working energy storage systems in the region
- 1-on-1 conversations with stakeholders



- Public meeting(s) to preview major findings and invite feedback on Draft Report
- News monitoring (Energy Storage News, GreenTech Media, Utility Dive, etc.)

Summer/Fall Activities



- **Meetings/Calls with Storage Development Community**

- Energy Storage Association, Edison Energy, Ingersoll Rand and Calmec, Flonium, Schneider Electric, Sunverge, Tesla, WindSoHy

- **Meetings/Calls with Other Stakeholders:**

- Alevo Analytics, Bloom Energy, Edison Electric Institute, Delegate Korman, Montgomery County, PJM, UMD Energy Innovation Institute

- **PSC-PPRP-MEA Coordination**

- Monthly MEA-PSC-PPRP calls
- Ongoing monitoring of PC 44 Integration & Energy Storage Working Groups;
- Meeting with PSC staff experts to discuss regulatory sections of Energy Study outline
- Coordination with Andrew Johnston on meetings/calls with stakeholders.

Activities Continued

- **General Learning**

- EPRI webinar for PPRAC/PC 44 WGs on storage valuation tool
- Field trip to 10-MW AES storage project.

- **Report Development**

- Style guide completed
- Drafting
 - 2. *Storage Technologies*
 - 4. *Status of Storage in Maryland*
 - 5. *Policies in Other States*
- Researching/Outlining
 - 3. *Cost and Value of Storage*
 - 6. *Revisions to Regulatory Policies*
 - 7. *Wholesale Market Factors*



AES 10 MW
battery in
Cumberland, MD



Next Steps & FAQs



- **Meetings/Calls with Stakeholders**

- BGE, Exelon, Pepco, SMECO
- American Wind Energy Association, Solar Energy Industries Association
- American Public Power Association, National Rural Electric Coop Association

- **Ongoing**

- PC-44 monitoring
- PSC-MEA-PPRP coordination
- Research/outlining/writing

What's the relationship between the Storage Study and PC 44?

Andrew Johnston, of PC 44's Storage WG, has agreed to draft the study section on utility ownership. PSC staff experts will review other sections of our study.

Will you be doing any modeling?

Modeling was removed from HB773, due to budget constraints, but modeling results from other states and future options will be discussed.

When will you have text for us to review?

In Spring 2018, we will circulate text within the Working Group for review and comment. In Summer 2018, we will provide a full draft to the public.

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