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**ARPA-E Grid Optimization Competition Workshop**

**1:15pm-3:30pm June 28, 2018 FERC: 888 First St NE Washington, DC 20426**

**FERC Conference: Increasing Market and Planning Efficiency and Enhancing Resilience through Improved Software**

**Abstract:** This session will cover the efforts of the Advanced Research Projects Agency-Energy (ARPA-E) in regards to innovative grid software and optimization methods. The Grid Optimization (GO) Competition is one such effort. The GO Competition will have multiple challenges; Challenge 1 will focus on the security-constrained ac optimal power flow (SCOPF) problem. Participants will submit their best algorithmic approach for this non-convex problem and compete to win prize money. This will be an informative session covering the GO Competition: the problem, scoring, rules, prizes, the website, the software platform, submitting your algorithms, and other pertinent information. More information can be found at: <https://gocompetition.energy.gov/>. Challenge 1 is expected to start in the fall of 2018.

**To attend, register for the FERC Conference (see website below)**. The session will be video recorded and released to the public by ARPA-E soon after the conference.

**Speakers:**

**ARPA-E:** Ashley Arigoni, David Guarrera, Kory Hedman

**PNNL (GO Competition Administrator and Support Staff):** Steve Elbert, Jesse Holzer, Olga Kuchar

**Tentative Agenda:**

1:15pm-1:35pm Introduction, Timeline, Proposal Track (**FOA**) and Open Track (ARPA-E/Hedman)

1:35pm-1:45pm GO Competition Platform Overview and Registration (PNNL/Elbert)

1:45pm-1:55pm Input/Output File Format Requirements (PNNL/Holzer)

1:55pm-2:15pm Formulation: Modeling Assumptions (ARPA-E/Hedman)

2:15pm-2:25pm 10 Minute Break

2:25pm-2:40pm Solution Submission/Using the Platform (PNNL/Kuchar)

2:40pm-2:55pm Scoring and Open-Source Evaluation Software (ARPA-E/Guarrera)

2:55pm-3:00pm Eligibility and Rules (ARPA-E/Arigoni)

3:00pm-3:30pm Questions & Answers Session (ARPA-E/Hedman)

**FERC’s Conference Website:** [https://www.ferc.gov/EventCalendar/EventDetails.aspx?ID=10992&CalType=%20&CalendarID=116&Date=06/26/2018&View=Listview](https://www.ferc.gov/EventCalendar/EventDetails.aspx?ID=10992&CalType=%20&CalendarID=116&Date=06/26/2018&View=ListviewT). To register: <https://www.ferc.gov/whats-new/registration/real-market-6-26-18-form.asp>.

For information regarding the GO Competition website and platform, contact the GO Competition Administrator: arpacomp@pnnl.gov. For information on the GO Competition, contact Kory W. Hedman: Kory.Hedman@hq.doe.gov.