



## 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 ( <b>FOA</b> ) 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>. 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](mailto:arpacomp@pnnl.gov). For information on the GO Competition, contact Kory W. Hedman: [Kory.Hedman@hq.doe.gov](mailto:Kory.Hedman@hq.doe.gov).