



DOE GMLC RESILIENT DISTRIBUTION SYSTEMS (RDS) PROJECTS – WHAT WE LEARNED AND WHAT’S NEXT

MONDAY: SESSION 3, TRACK 1

SESSION CHAIRS

- Abraham Ellis, Sandia National Laboratories
- Emma Stewart, National Rural Electric Cooperatives Association

PRESENTERS

- Clay Koplin, Cordova Electric Cooperative – RADIANCE project
- Kevin Schneider, Pacific Northwest National Laboratory – OpenFMB / Citadels project
- David Lovelady, National Grid – Designing Resilient Communities project

SESSION ABSTRACT

In September 2017, DOE funded seven Resilient Distribution System (RDS) projects as part of the Grid Modernization Laboratory Consortium (GMLC) program. The focus of the \$32 million RDS initiative was to demonstrate the integration of clean distributed energy resources (DER), advanced controls, grid architecture, and emerging grid technologies at a regional scale. This session will discuss the results of three of the seven RDS projects, which are now wrapping up. The panel of host utilities and national laboratory researchers will discuss key lessons learned and challenges remaining. The projects include the Resilient Alaskan Distribution System Improvements using Automation, Network Analysis, Control, and Energy Storage (RADIANCE) project at Cordova Electric Cooperative; Increasing Distribution Resiliency using Flexible DER and Microgrid Assets Enabled by OpenFMB with Duke Energy and the follow-up Citadels project; and the Designing Resilient Communities (DRC) project with CPS Energy and National Grid.