

Aggregation and Grid Security Workshop

A two-day workshop on DER and VPP cybersecurity

DAY 1 | Tuesday, June 17

TIME	TITLE
8:30 – 9 a.m. (30 min.)	Arrive at NREL South Table Mountain Campus, East Visitor Gate <i>You will be directed to the visitor parking garage. Walk to the Research Support Facility (RSF) reception area, where you will be met by your escort.</i>
	Light Refreshments and Networking Location: San Juan Conference Room, RSF
9 – 9:30 a.m. (30 min.)	Welcome and Opening Remarks Jordan Henry , Cybersecurity Research Center Director, NREL
9:30 – 9:50 a.m. (20 min.)	Workshop Introductions: Objectives and Expectations Danish Saleem , Senior Cybersecurity Researcher, NREL Transition to Location: Energy, Security and Resilience Lab, ESIF
9:50 – 10:45 a.m. (55 min.)	Threat-to-Consequence: Compounding Hazards Demonstration Robert Biestman , Cyber System Analysis Group Manager, NREL
	Open Discussion Transition to Location: San Juan Conference Room, RSF
10:45 – 11:15 a.m. (30 min.)	The Potential Impact of Compromised Original Equipment Manufacturer Aggregator Networks on Bulk Electric System Security Uri Sadot , Cybersecurity Program Director, SolarEdge Technologies
11:15 – 11:30 a.m. (15 min.)	Break
11:30 a.m. – 12:30 p.m. (1 hour)	Focus Session Topic 1: Cybersecurity Dependencies for Resilient DER Aggregations <i>Facilitators: Bobby Jeffers</i> , Cybersecurity, Energy Security, and Emergency Response Laboratory Program Manager, NREL; Adam Rosenstein , Enphase Focus Session Topic 2: Assessing the Impact of Compromised DER Aggregations on U.S. Energy Systems <i>Facilitators: Andy Hoke</i> , Power Systems Engineering Principal Engineer, NREL; John Franzino , Chief Executive Officer, GridSecurity
12:30 – 1:30 p.m. (1 hour)	Working Lunch Location: San Juan Conference Room, RSF Standards Library and Harmonization Strategy Danish Saleem
1:30 – 2 p.m. (30 min.)	From Metrics to Mindsets: How Industry and Regulators Tackle Risk David White , President, Axio
2 – 2:30 p.m. (30 min.)	Cybersecurity Roles and Responsibilities of Stakeholders Involved in VPPs Richard Macwan , Cyber Resilience Science Group Manager, NREL
2:30 – 2:45 p.m. (15 min.)	Break
2:45 – 3:45 p.m. (60 min.)	Focus Session Topic 3: Ensuring Continuity in the Face of Cyberattacks <i>Facilitators: Anuj Sanghvi</i> , Senior Cybersecurity Researcher, NREL; Jennifer Flandermeyer , Cyber Intel and Government Affairs Director, NextEra Energy Focus Session Topic 4: Role of Aggregators in Securing VPPs <i>Facilitators: Richard Macwan</i> , Cyber Resilience Science Group Manager, NREL; Sharvil Shetty , Security Engineer, Tesla
4 p.m.	Adjourn

4 – 5 p.m. (60 min.)	Optional Energy Systems Integration Facility Tour Ben Kroposki , Power Systems Engineering Center Director, NREL
6 – 8 p.m. (2 hours)	No Host Social Downtown Golden Location

DAY 2 | Wednesday, June 18

TIME	TITLE
9:00 – 9:30 a.m. (30 min.)	Arrive at NREL South Table Mountain Campus, East Visitor Gate <i>You will be directed to the visitor parking garage. Walk to the RSF reception area, where you will be met by your escort.</i> Light Refreshments and Networking San Juan Conference Room, RSF
9:30 – 9:45 a.m. (15 min.)	Recap of Day 1 and Kick Off Day 2 Danish Saleem
9:45 – 10:15 a.m. (30 min.)	Plugging the Gaps: Cybersecurity Standards for Resilient DERs and VPPs Lynn Costantini , Deputy Director, National Association of Regulatory Utility Commissioners
10:15 – 10:45 a.m. (30 min.)	Fast-Tracking Technology Solutions to Boost Cybersecurity in VPP and Aggregator Operations Nik Urlaub , Senior Cybersecurity Researcher, NREL
10:45 – 11:45 a.m. (60 min.)	Focus Session Topic 5: Can You Say That in English? Simplifying Grid Reliability and Security Standards with Common Sense Language <i>Facilitators:</i> Charles Magill , Senior Wind Cybersecurity Researcher, NREL; Lynn Costantini Focus Session Topic 6: The Role of Mission Rehearsal in U.S. Grid Resilience <i>Facilitators:</i> Shane McFly , Senior Cybersecurity Researcher, NREL; David Benton , Threat Informed Resilience Senior Advisor, Berkshire Hathaway Energy
11:45 – 12:15 p.m. (30 min.)	Closing Remarks Danish Saleem ; Emily Waligoske , Technical Project Manager, NREL
12:15 p.m.	Adjourn
1 p.m.	Shuttle from NREL to Marriot
1:15 p.m.	Shuttle from Marriot to Flatirons Campus for Tour
2 – 3:30 p.m. (90 min.)	Optional Flatirons Campus Tour Daniel Laird , National Wind Technology Center Director, NREL; Jeroen van Dam , Chief Researcher, NREL

*For our DOE/USG Guests, the cost of meals is \$26 for June 17, 2025.
Cash or checks are welcome, checks can be made payable to The Alliance for Sustainable Energy, LLC.*