



GRIDWORKS

## Today's Objectives

- Provide overview of considerations and best practices for distribution system-level load forecasting
- Gather input from stakeholders on methodologies for distributed load forecasting to include in grid modernization NOPR

## Today's Agenda

**10:00 - 10:10 am** - Welcome and review of March 17 Advanced Metering Infrastructure webinar

**10:10 - 10:40 am** - Forecasting Load on Distribution Systems with Distributed Energy Resources

Ashreeta Prasanna, Researcher and Modeling Engineer, Distributed Systems and Storage Group, Integrated Applications Center, National Renewable Energy Laboratory

**10:40 - 10:45 am** - Clarifying Questions and Answers

**10:45 - 10:50 am** - Explanation of Discussion Process

**10:50 - 11:20 am** - Facilitated Discussion

Objective:

- Hear from stakeholders concerns and suggestions for modeling and forecasting distribution system loads
- Hear how systems with distributed energy resources can be modeled
- Identify important components for inclusion in the NOPR

**11:20 - 11:30 am** - Wrap Up

- Participant Survey
- Next Steps

The decarbonization of our economy is within reach, and more important than ever.

We convene, educate, and empower stakeholders working to decarbonize our economy.



# GRIDWORKS



## Load Forecasting on the Distribution System



**Ashreeta Prasanna**

**Researcher and Modeling Engineer, Distributed  
Systems and Storage Group, Integrated  
Applications Center, National Renewable  
Energy Laboratory**

## Objective:

- Hear from stakeholders concerns and considerations related to forecast loading
- Gather input on methodologies for distributed load forecasting to include in grid modernization NOPR

## Introducing Facilitated Discussion Process

Facilitated discussion time in Grid Modernization webinar series will follow a consistent format

### **G**rounding

What did you hear? What stood out to you?

### **R**eflective

What information surprised, confused or intrigued you?

### **I**nterpretive

What insights have you had? What does it mean for us?

### **D**ecisional

What do we agree upon? What needs additional work? What are our next steps?

- **Participant Survey**
- **Next Steps**
  - Gridworks summary of today's webinar
  - April 21 Webinar: Hosting Capacity Analysis with Sky Stanfield (IREC)
  - May 5 Webinar: - Non-wire alternatives, including DER (storage, microgrids) with Lauren Shwisberg (RMI)





## HOW CAN WE HELP?

**MATTHEW TISDALE**

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**GRIDWORKS**

## Purpose

- Support development of Notice of Proposed Rulemaking (NOPR) on Grid Modernization
- Share information, gather participant input and identify issues to address in NOPR development

## Approach

- Subject matter expert speaker presents on topic
- Facilitated discussion to gather participant perspectives
- Summary of workshops documenting participant input for PRC use in rulemaking

### Dates and Topics

**March 3** - Integrated Distribution Planning Overview (Lisa Schwartz, LBNL)

**March 17** - AMI and Communications (James Ogle, PNNL)

**April 7** - Load Forecasting (Ashreeta Prasanna, NREL)

**April 21** - Hosting Capacity (Sky Stanfield, IREC)

**May 5** - Non-wire Alternatives (Lauren Shwisberg, RMI)

**May 19** - Transportation Electrification in DSP (Trina Horner, Kevala)

**June 2** - Evaluation methods for grid investments and DER (John Shenot, RAP)

**June 16** - Best practices from other states (Will McNamara, Sandia)

**June 30** - Procedures for submitting and reviewing Grid Modernization Applications

**July 21**- Recap and summarize findings and recommendations