

U.S. Department of Energy H2@Scale Meeting Agenda

November 7, 2017

Long Beach Convention Center
Long Beach, CA

Objectives:

- Provide an overview of activities and collaborations under the U.S. DOE H2@Scale initiative, including selections from 2017 H2@Scale CRADA Call and the H2@Scale national laboratory consortium.
- Identify opportunities to align hydrogen technologies with evolution in power generation and transmission.
- Assess hydrogen infrastructure needs to cost effectively match growth of diverse industries.

1:00-2:00 Plenary Talks

- **Overview of Federal Hydrogen and Fuel Cell H2@Scale Activities**
[Dr. Sunita Satyapal, U.S. Department of Energy's Fuel Cell Technologies Office \(FCTO\)](#)
- **Overview of H2@Scale Concept**
[Dr. Bryan Pivovar, National Renewable Energy Laboratory \(NREL\)](#)
[Mark Ruth, National Renewable Energy Laboratory \(NREL\)](#)
- **Growing Requirements for Energy Storage and Grid Services in California**
[Angelina Galiteva \(California Independent System Operator\)](#)
- **Expansion of Hydrogen Infrastructure in California**
[California Air Resources Board](#)
- **H2@Scale R&D Needs and Relevant National Lab Capabilities**
[Neha Rustagi \(FCTO\)](#)

Fireside Chats on Impacts of H2@Scale

2:00-3:00 Alignment of H2@Scale with Energy Markets

Panelists will discuss the relevance of hydrogen to current and future needs of energy markets, including grid stability, energy storage, and exports of fuels. The panel will include representatives

from [Bloomberg New Energy Finance](#), [Southern Company](#), as well as other utilities, power generators, and the national laboratories.

3:00-3:30 **Break**

3:30-4:30 **Alignment of H2@Scale with National Scale Hydrogen Infrastructure Growth**

Panelists will discuss expected evolutions of hydrogen infrastructure, including growth of liquefaction, recovery of hydrogen from industrial process streams, and/or growth in gaseous terminals. Panelists will include representatives from energy and industrial gas companies.

4:30-5:30 **Alignment of H2@Scale with Hydrogen Infrastructure needs for FCEVs**

Panelists will discuss cross-cutting R&D needs to enable growth of hydrogen infrastructure. Panelists will include representatives from the [California Fuel Cell Partnership](#), [Honda](#), and fueling station developers.