



I-WEST

STAKEHOLDER WORKSHOP SERIES

# Regional Deployment of Hydrogen Utilization & Related Technologies

## Workshop Information:

**Date:** January 18, 2022

**Time:** 10:00 am – 2:00 pm MT

**Location:** Held via Webex with no cost to attend

**Registration:** [Click here to register.](#)

The Intermountain West Energy Sustainability & Transitions (I-WEST) project is focused on delivering a regionally relevant technology roadmap to transition six U.S. intermountain west states to a carbon-neutral energy economy. I-WEST encompasses Arizona, Colorado, Montana, New Mexico, Utah, and Wyoming. The project is taking a place-based approach, which prioritizes the geographical attributes, economic landscape, and societal readiness of the region. Learn more online at [www.iwest.org](http://www.iwest.org).

## Why join this workshop?

Building a hydrogen economy in the Intermountain West is of interest to stakeholders on regional and national levels. Low-to-zero carbon hydrogen could be produced through a variety of pathways, and growth in hydrogen supply would require commensurate growth in demand. This could include hydrogen utilization within the Intermountain West, as well as exports to other areas where demand is increasing. Emerging growth markets for hydrogen include fuel cells, turbines, and renewable fuels. This workshop will focus on low-hydrogen utilization opportunities in the next 0-5 years and will assess regional readiness to deploy low-carbon hydrogen utilization technologies. The objective of the workshop is to gather input that will help answer the following questions:

- What are the potential markets (e.g., refining, mining, metals recycling, fuels, electricity production, fuel cells for transportation, and exports)?
- What are the critical barriers to deployment (i.e., technical, infrastructure, financial, policy, regulations, societal)?
- What policies are needed for energy, equity and inclusion (i.e., Sovereign Nations)?
- What are the expected economic impacts (e.g., revenue, jobs)?

Outcomes from this workshop will inform the I-WEST technology roadmap, specifically the role low-carbon hydrogen utilization can play in transitioning to carbon-neutral energy systems. Participants will have the opportunity to connect their capabilities with regional stakeholders and technology providers invested in building pathways to carbon neutrality in the Intermountain West.

A separate workshop will be held January 11, 2022, to focus on hydrogen production.

## Informative and Interactive

The format of this workshop will be a series of 15-minute presentations followed by a 15 minute Q&A session from leading experts in hydrogen utilization or related technologies.

Join the hydrogen industrial revolution!

# Meeting Agenda

<b>Time</b>	<b>Topic</b>	<b>Presenter</b>
10:00-10:10	Introduction and I-WEST Overview	<b>George Guthrie</b> Los Alamos National Laboratory
10:10-10:20	Summary of I-WEST Hydrogen Production Workshop	<b>Rajinder Singh &amp; Troy Semelsberger</b> Los Alamos National Laboratory
<i>Ten-minute presentations will introduce regional projects and/or company perspectives on the potential role of hydrogen utilization in a strategy to decarbonize the Intermountain West. Please use the chat to document your questions throughout the presentations so they can be addressed during the roundtable discussion.</i>		
10:20-10:30	Hydrogen Utilization (Escalante Project)	<b>Wiley Rhodes</b> Escalante H2Power
10:30-10:40	Power Generation	<b>Indra Bhattacharya</b> Tri-State Generation
10:40-10:50	Financial Perspectives on Hydrogen Utilization	<b>Will Thomson</b> Massif Capital
10:50-11:00	Financial Perspectives on Hydrogen Utilization	<b>Mike Biddle</b> Evok Innovations
11:00-11:15	Hydrogen Utilization and Demand	<b>Dan Klein</b> Libertad Energy
11:15-11:25	Heavy Duty Fuel Cells	<b>Rod Borup</b> Los Alamos National Laboratory
11:25-11:35	Hydrogen Utilization	<b>Robert Braun</b> Colorado School of Mines
11:35-11:45	Big Navajo Energy Company	<b>Dory Peters</b> President/CEO
11:45-11:55	Utah H2 Project	<b>Andrew Hegewald</b> Dominion Energy

**Chatham House Rule**— “participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed”

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Time	Topic	Presenter
11:55-12:00	Break	-
12:00-2:00	Roundtable Discussion Moderators: <b>Brian Debruine</b> , Chief Technology Officer at New Day Hydrogen and Founder of the Colorado Hydrogen Network <b>Charles Nye</b> , Research Scientist, School of Energy Resources, University of Wyoming	<b>All</b>
2:00	Wrap up	<b>Troy Semelsberger and Raj Singh</b> Los Alamos National Laboratory

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