

Carbon-Negative H₂ Workshop

Bob Baldwin, Sarah Baker, Jonathan Lekse, Josh Schaidle

June 22nd-23rd, 2023

Golden, CO



Workshop Goal and Objectives

Goal

Develop a shared understanding of the importance of and opportunities for generation and use of carbon-negative H₂ in industrial decarbonization

Objectives

- Identify major technical challenges and knowledge gaps
- Define research needs
- Identify barriers to commercialization and associated community impacts

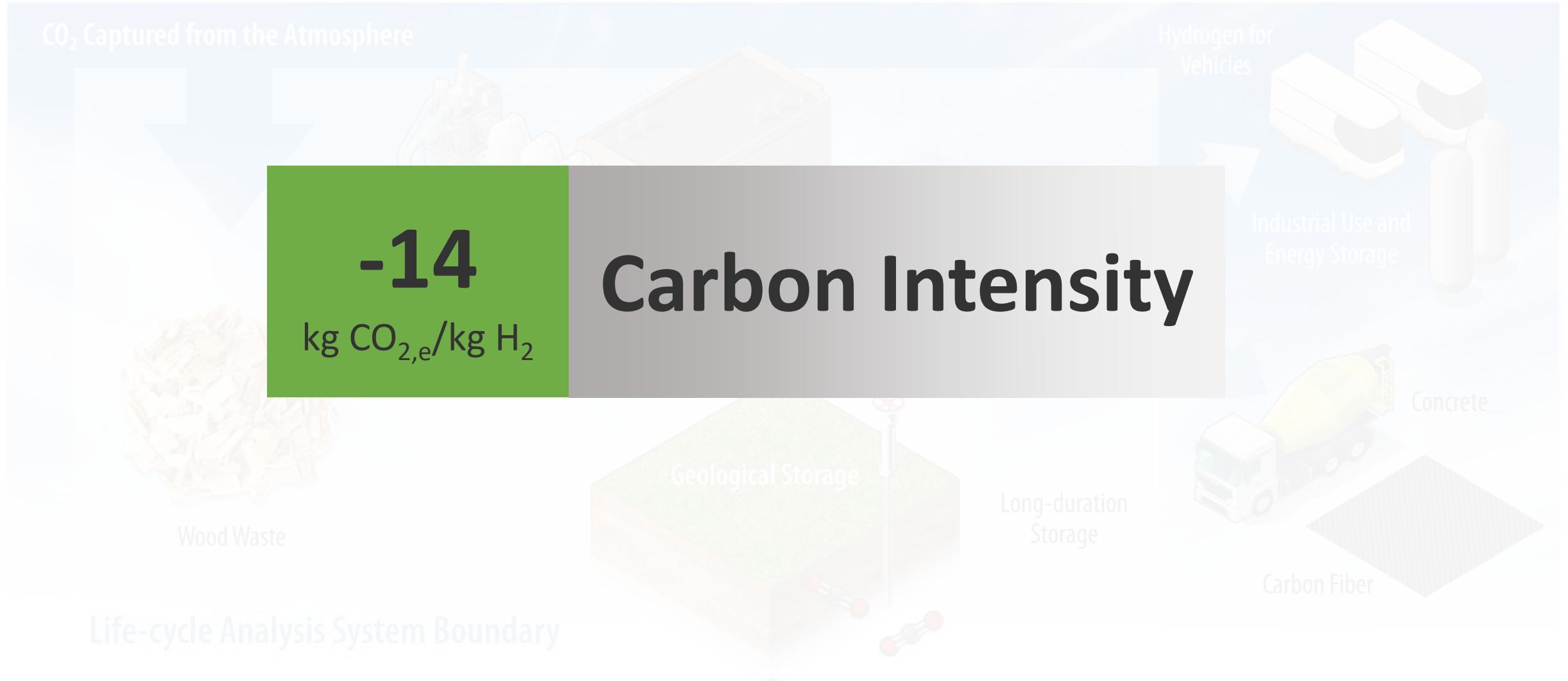
Dual Benefits: Producing H₂ and Sequestering CO₂

1 Tonne of Biomass



What is Carbon Negative?

Carbon negative means a product/process has a carbon intensity <0 over its lifecycle



Agenda

June 22nd, 2023

8:10-8:20am	Workshop Kick-off
8:20-8:50am	Jai-Woh Kim (FECM)
8:50-9:15am	Gary Grim (NREL)
9:15-9:40am	Nathan Weiland (NETL)
9:40-10:05am	Sarah Baker (LLNL)
10:05-10:15am	Break
10:15-12:00pm	Lightning Talks
12:00-1:00pm	Lunch [Kate Anderson, NREL]
1:00-2:00pm	Panel Discussion
2:30-4:00pm	Breakout #1: Technical Challenges

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8:00-8:15am	Instructions for breakouts
8:15-10:00am	Breakout #2: R&D Needs
10:00-10:15am	Break
10:15-11:30am	Breakout #3: Commercialization
11:30-12:15pm	Report Out
12:15-1:00pm	Lunch
1:00pm	Wrap-up and Adjourn
1:30pm	Pre-arranged tours of NREL

Ground Rules

- All ideas/thoughts are welcome – give everyone a chance to contribute
- Keep an open mind
- Please step out if you need to take a call
- Think big, check your baggage at the door, and have fun

Thank you!

- Speakers and Panelists
- All attendees
- Lisa Fagaly
- Moderators and Note-takers
- Co-Organizers



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