

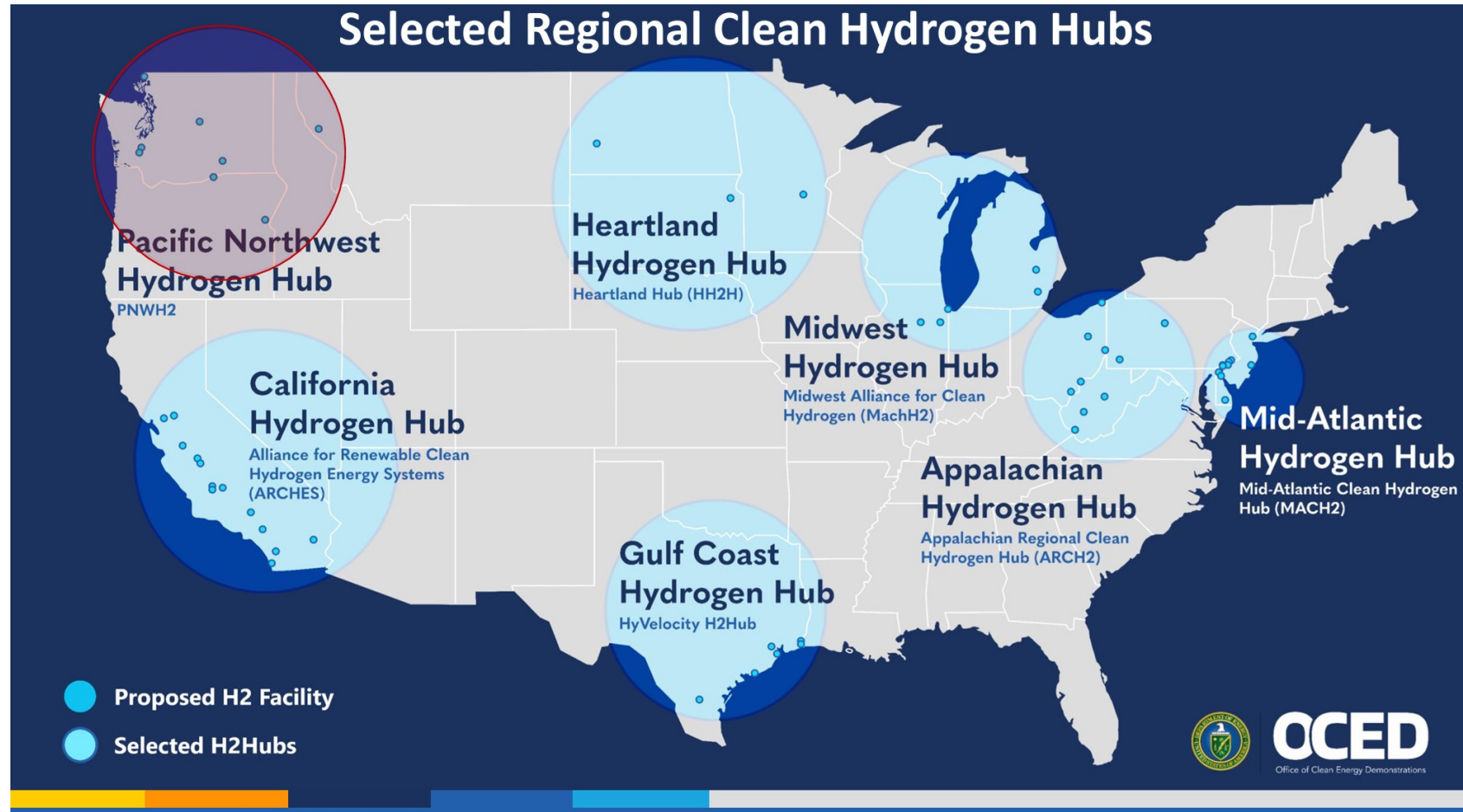
PNW Hydrogen Hub Update

Oregon Joint Transportation Committee

January 12, 2024

Michelle Detwiler
Executive Director
Renewable Hydrogen Alliance

7 Hubs Awarded in October 2023



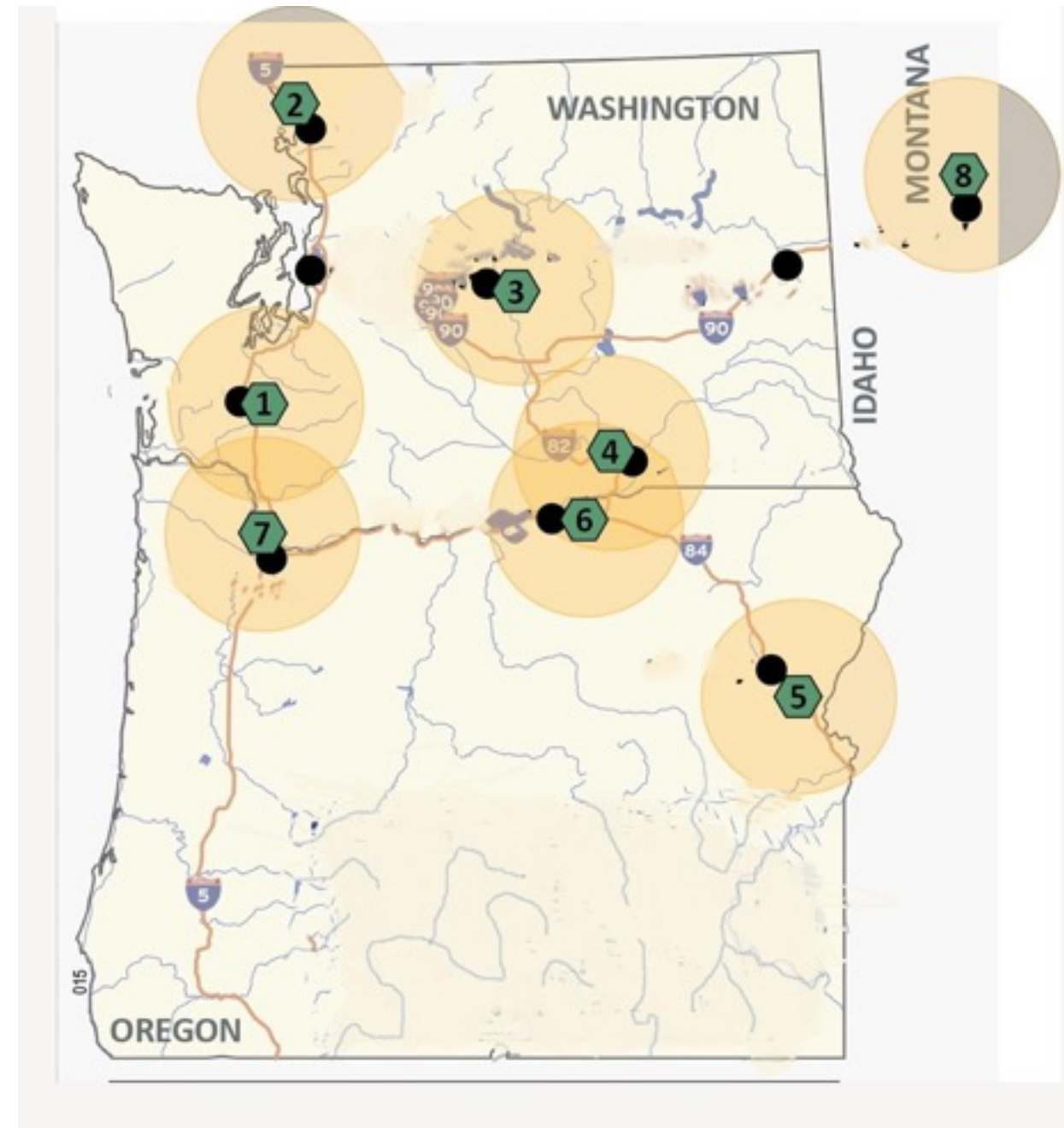
- 79 concept papers submitted to the DOE
- 33 of them invited to submit full application (at least two were from the Pacific Northwest)
- PNWH2 Hub asked to complete a pre-selection interview
- PNWH2 Hub selected for negotiation of award

Potential Project Locations

- 8 proposed project locations (Nodes)
- 20 projects
- 7 of 8 Nodes include hydrogen transportation fueling

Where Are We Now?

- Negotiations ongoing
- Contracts expected to be signed by late Spring
- Requested \$1.25b; potentially awarded \$1b

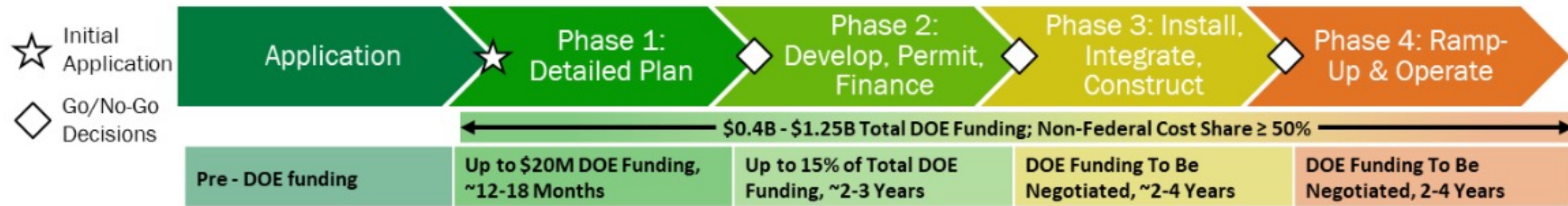


Source: https://www.energy.gov/sites/default/files/2023-11/H2Hub_Pacific_Northwest_Community_Briefing.pdf

By the Numbers

- \$1 billion in funding
- \$7 billion in project developer private matching funding
- 2/3 project activity in WA
- ~ 1/3 in OR
- One project in Montana
- Create and support 10,000+ jobs with potential to sustain up to 70,000 regional jobs
- Reduce 1 million tons GHG emissions annually (equivalent to removing 346,000 gas powered cars)
- Community benefits planning will include working with 200 community groups, five regional tribes and 28 unions

Hydrogen Hub Phases



- **Phase 1** (Year 1 - \$20 million allocated) will encompass initial planning and analysis activities to ensure that the overall H2Hub concept is technologically and financially viable, building on existing engagement with local communities to include further input from Tribes and relevant partners and stakeholders.
- **Phase 2** (Up to 2 Years) includes finalizing engineering designs and business development, site access, labor agreements, permitting, offtake agreements and community engagement activities.
- **Phase 3** (Approximately 2 - 4 Years) will focus on the implementation - installation, integration and construction activities.
- **Phase 4** (Approximately 2-4 Years) will ramp up the H2Hub to full operations, including data collection to analyze the H2Hub's operations, performance and financial viability.

Project Example NovoHydrogen

PROJECT STATUS AND NEXT STEPS

- 🌱 **Q1 2024** PNW and DOE negotiations complete
- 🌱 **Q1-Q2 2024** finalize commercial contracts with customer
- 🌱 **Q2 2024** initiate environmental surveys/begin NEPA review process
- 🌱 **Q2-Q3 2024** advance Community Benefit discussions
- 🌱 **Q2-Q4 2024** project financing
- 🌱 **Q4 2024** procure long-lead equipment
- 🌱 **Q4 2025/Q1 2026** receive NEPA findings
- 🌱 **Q2 2026** issue notice to proceed to begin site prep/construction
- 🌱 **Q1 2027** project operational





What's needed to
continue moving
forward?

Siting

Permitting

Public engagement

Questions/Comments?



Contact: Michelle Detwiler, m.detwiler@renewableh2.org

RHA Website: <https://renewableh2.org/>

For more information about PNWH2: <https://pnwh2.com/>

Detailed questions about the projects and other elements of the hub can be directed to Kate Gregory, PNWH2 Hub Advisor, info@pnwh2.com