



MIDWEST ALLIANCE FOR CLEAN **HYDROGEN**

Delivering on the Promise of U.S. Department of Energy's Clean Hydrogen Hub Program

November 2024

Agenda

- I. **H2 Hub (DOE Funding) Opportunity**
 - I. Opportunity Timeline
 - II. 'Selected' hubs
 - III. Funding Allocation
- II. About MachH2
 - I. Four Pillars
 - II. MachH2 project locations/descriptions
 - III. Demand Sectors
 - IV. Regional Impact
 - V. Ways to stay Connected

DOE Funding Opportunity

- The Regional Clean Hydrogen Hubs program—or H2Hubs—includes up to **\$7 billion** to establish six to 10 regional clean hydrogen hubs across America. **Seven hubs were selected in October 2023.**
- As part of a larger \$8 billion hydrogen hub program funded through the Bipartisan Infrastructure Law, **the H2Hubs will be a central driver in helping communities across the country benefit from clean energy investments, higher paying jobs and improved energy security.**
- The H2Hub program is being administered by The Office of Clean Energy Demonstrations (OCED) of the US Department of Energy (DOE)

Funding Opportunity Timeline

Key Dates

Founding Opportunity Announcement Issue Date	9/22/22	
Submission Deadline for Concept Papers	11/7/2022 by 5 p.m. ET	79 Papers submitted
Concept Paper Encourage/Discourage Notifications	12/1/22	33 Papers encouraged
Submission Deadline for Full Applications	4/7/23 by 5 p.m. ET	~25 submitted application
Pre-Selection Interviews	Summer 2023	~10 invited to interviews
Selection Notifications	10/13/23	7 hubs selected
Timeframe for Award Negotiations	Summer/Fall 2024	

Currently in Award Negotiations →

MachH2 (Midwest) is one of 7 'selected' H2 hubs



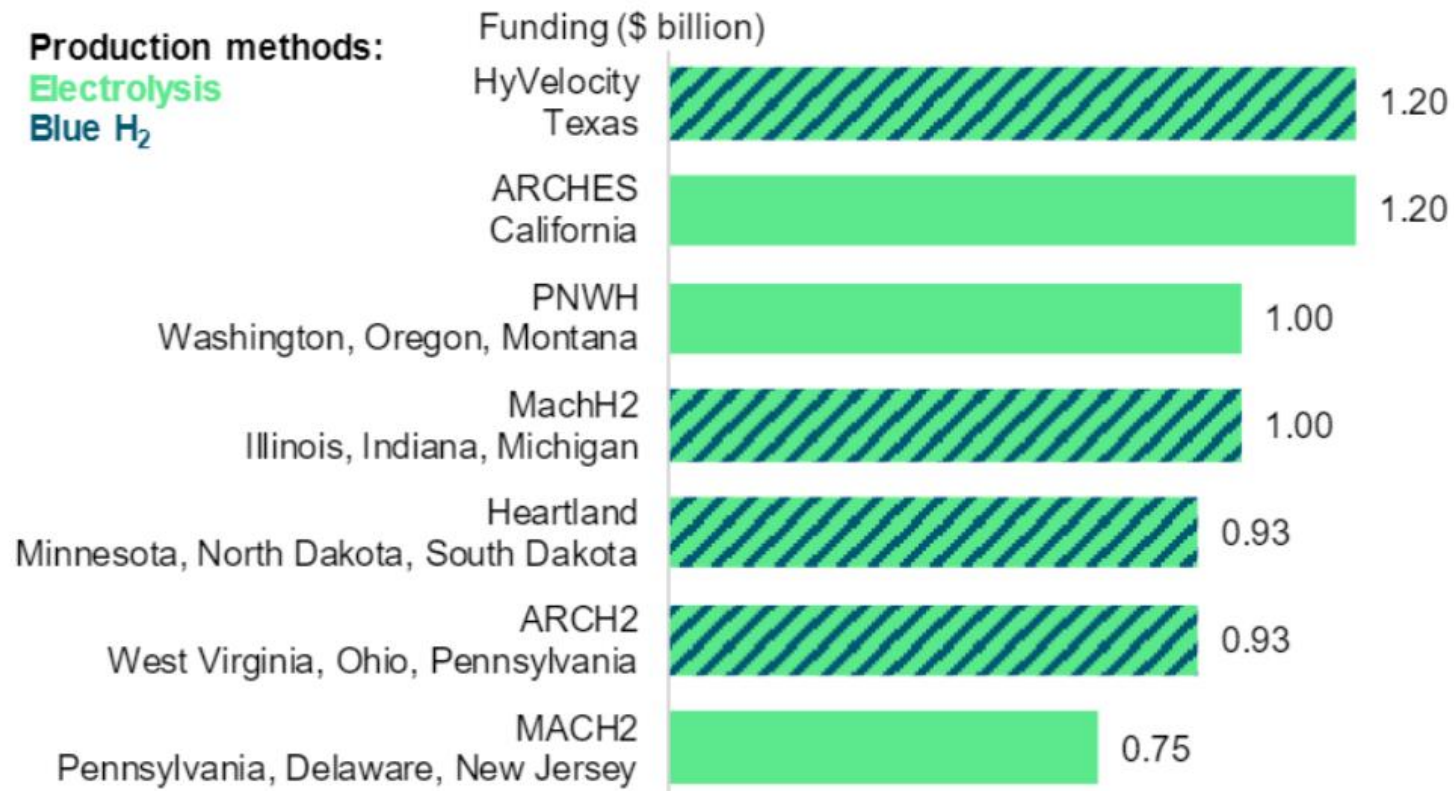
Funding & Phasing

- **Total Federal Cost Share Amount (all phases):** Up to \$1 billion
- **Phase 1 OCED Award Amount:** \$XX million
- **Phase 1 Scope of Work:** Preliminary planning and concept development activities
- **Phase 1 Timeline:** Up to 18 months



H2 Hub Funding Allocation

Figure 3: Distribution of funding among the selected hubs



Source: BloombergNEF, Department of Energy. Note: electrolysis can use renewables or nuclear.

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The MachH2 Hub is Founded on 4 Pillars

PILLAR 1

a core of **nuclear, renewable, and natural gas** with **carbon capture** for safe clean hydrogen production to support decarbonization in the Midwest

PILLAR 2

a leading **transportation corridor** with a concentration of agriculture, manufacturing, industrial sectors

PILLAR 3

financially strong project sponsors with demonstrated **management and operational excellence**, bringing a robust governance structure that enables a **single, integrated hub**

PILLAR 4

Holistic approach to CBP where EJ opportunities supporting **quality jobs and entrepreneurship** in DACs at regional project sites

Accelerating the nation's clean hydrogen energy transformation with a market-driven, regional approach

Projects

Projects to Establish and Integrate the Regional H2 Hub

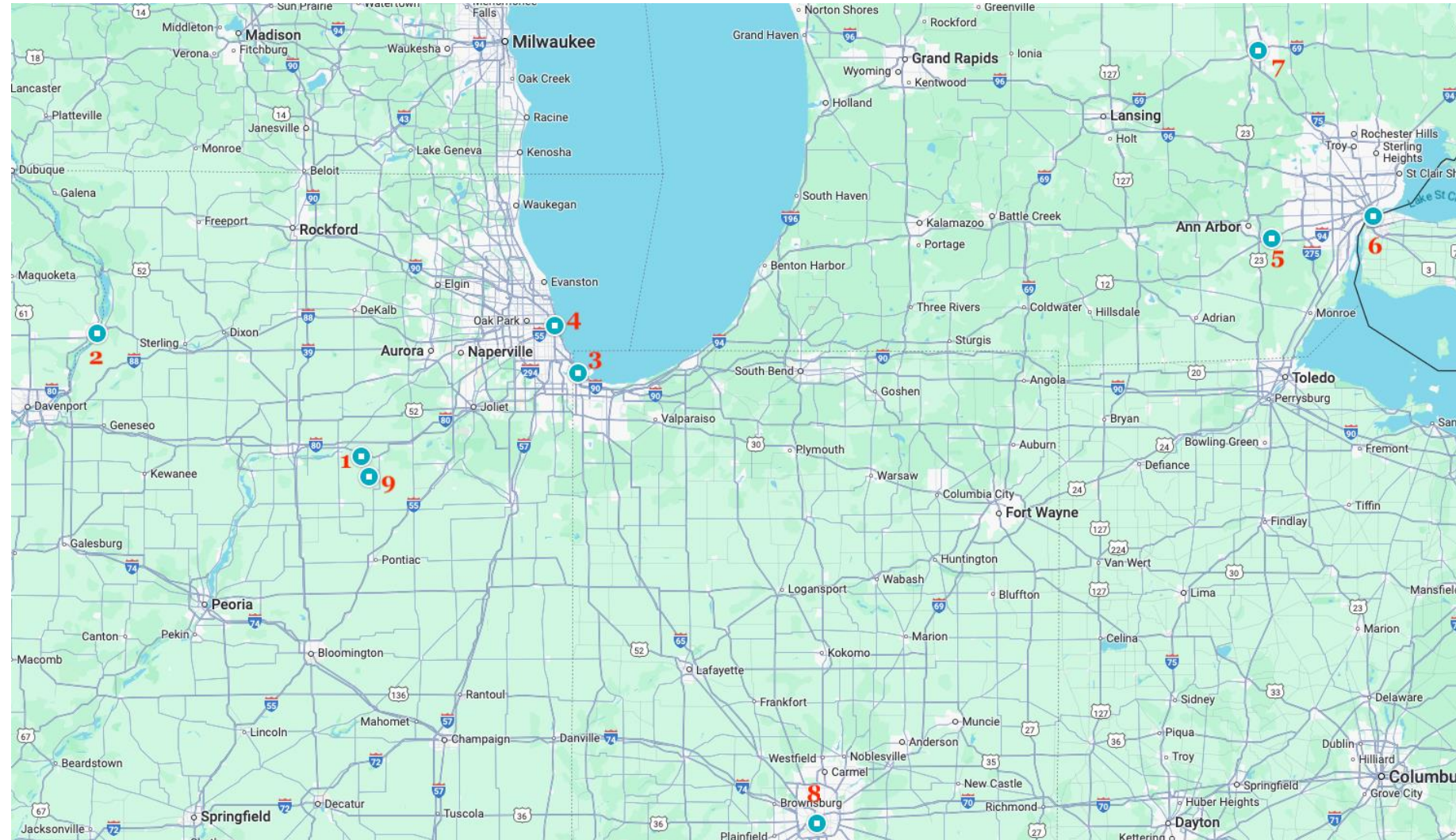
1. **Nuclear-Powered Electrolysis**
Constellation Energy
2. **Liquid H2 to Decarbonize Midwestern Logistics**
Invenergy and Air Liquide
3. **Northern Indiana Clean H2 Node**
bp
4. **SWITCH – Solutions Working to Transform Industry and Transportation to Clean H2**
GTI Energy

Projects to Decarbonize Midwestern Transportation Corridors

5. **H2 for MI Freight and Transit**
American Center for Mobility (ACM)
6. **H2 Truck Stop of the Future**
Michigan Infrastructure Office (MIO)
7. **H2 Fueling Station Expansion**
Mass Transportation Authority (MTA)
8. **Midwest Mobility Project**
Midwest Hydrogen Corridor Coalition, LLC (MHCC)

Projects to Decarbonize Industrial Processes and Products

9. **H2 Pipeline Distribution and End Use**
Nicor Gas



Midwestern High-Impact Demand Sectors



Regional Impact to Communities

1,210

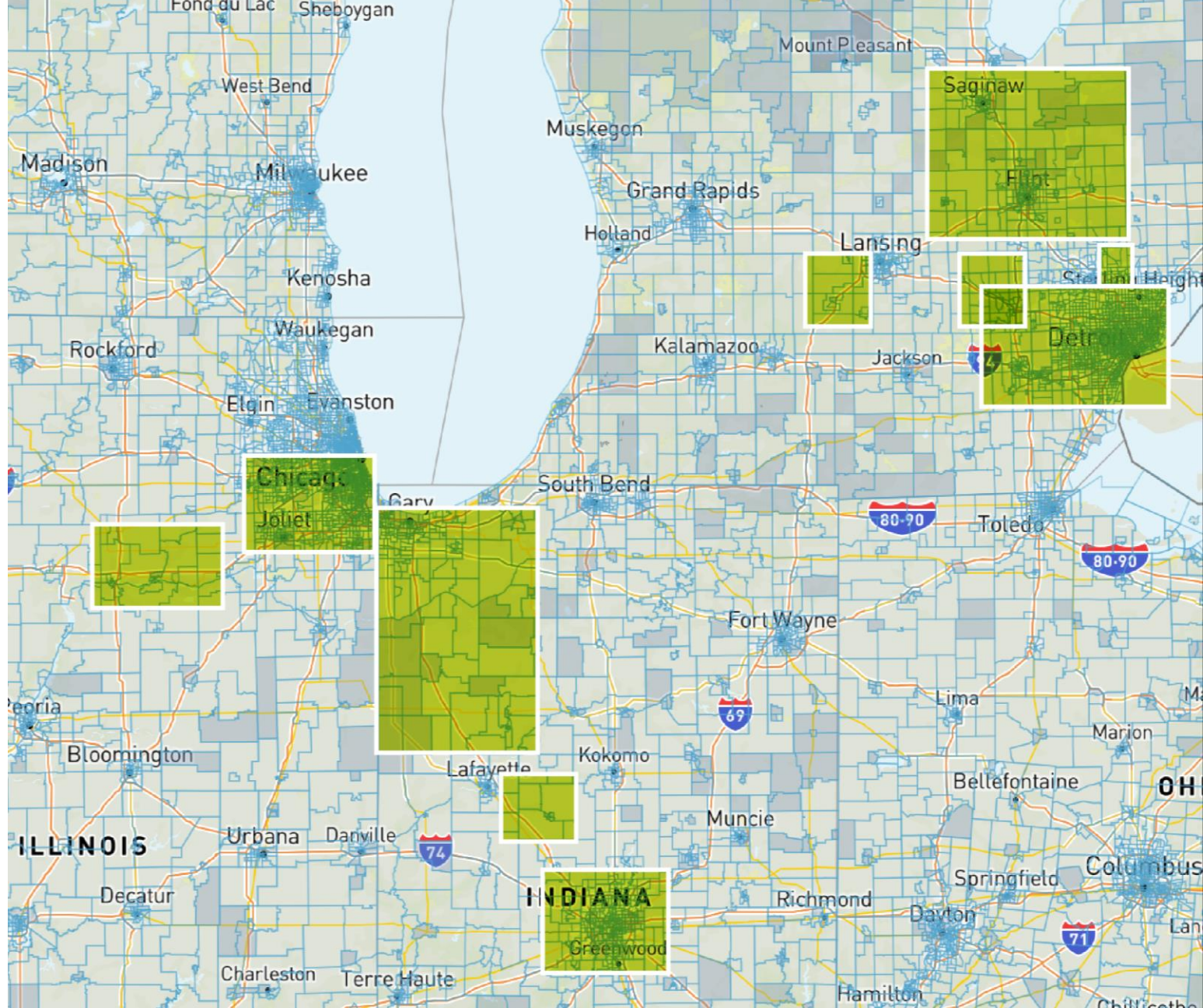
DACS and Tribal Areas

3.8M

People Living In DACs and Tribal Areas

3.9M

MT CO₂,e/year emissions avoidance by MachH₂ Hub Projects



Information accurate as of August 7, 2023

Investment in the American Workforce

Creation of

**UP TO
12,000***

construction and
permanent jobs

Plan to invest
in wrap-around
services to support
local workers



Stay Connected

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