

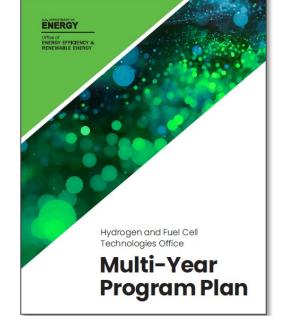
42nd IPHE Steering Committee Meeting 20 – 21 November 2024 Brussels, European Commission



Announcements / New Initiatives United States



- Investments/Funding/Policies/Initiatives
 - Release of DOE Hydrogen and Fuel Cells Multi-Year Program Plan (MYPP) with targets to help guide RD&D
 - Launch of Clean H2 101 and FAQ Web Resource
- New Research & Development, Demonstration and/or Deployment Activities
 - \$475M in EPA funding to advance H₂-based operations at 6 ports
 - \$97M in USDOT funding for H₂-related rail projects
 - \$90M to help build H₂ Transportation Corridor
 - Support projects in California, Colorado, and Texas to deploy clean H₂ fueling infrastructure
 - \$62M includes fueling stations of the future, best practices for siting, permitting, community engagement
 - 20 projects across 15 states
- Key Collaborations International examples: H2 Twin Cities Winners announced
 - Houston+Nuevo Leon and Houston+Barrancabermeja























Examples of Lessons Learned and Impact *United States*



Program initiative, policy, regulation or mandate	Lessons Learned/Outcomes
Community Benefits Plans (CBP)	 DOE requires CBPs for various funding opportunities Core policy priorities: Community and labor engagement Investing in quality jobs DEIA Justice40 DOE and HIT developed FAQs and 101 document on H2 Created an engaging and replicable workshop – Harnessing Hydrogen – for helping communities understand the role of clean H2 in the just transition to clean energy Provided technical assistance to Tribes interested in H2 technologies
Hydrogen Interagency Task Force (HIT)	 Formed in 2023 to optimize and accelerate actions to execute the national clean hydrogen strategy. Collaboration efforts across US federal agencies have been successful over the past year in terms of funding, program support, and technical sharing/outreach.















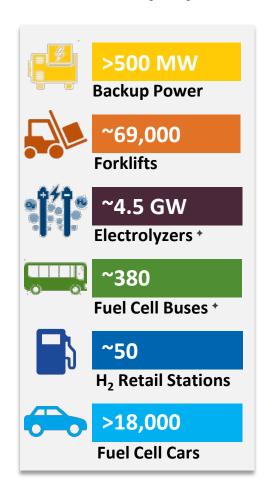




United States - Profile November 2024



Status of Deployments



Leading Government Initiatives



Hydrogen

IRA Hydrogen Incentives Examples

Clean Hydrogen Production Tax Credit (up to \$3/kg) and up to 30% Investment Tax Credit

Tax credit of up to 100K/30% of the cost of alternative fuel refueling property.

30% credit for commercial FCEVs and \$7,500 credit for new FCEV purchases.

Justice 40 Initiative

40% of benefits from federal investments to disadvantaged communities (EJ40)

Diversity, Equity, Inclusion, and Accessibility (DEIA)

U.S. Whole-of-Government Approach to H₂ – Hydrogen Interagency Taskforce (HIT)

Deployment Goals

- 100% clean electricity grid by 2035
- Net-zero emissions by 2050
- 50-52% emissions reductions by 2030



Goals or Focus Areas

Clean Hydrogen

\$1/kg production \$2/kg delivery \$9/kWh storage \$150/kW 73% efficiency 80K hrs durability

Fuel Cells (HD) \$80/kW 25K hrs durability Enable J40 Priorities, DEIA

Funding

Bipartisan Infrastructure Law includes \$9.5B for Clean Hydrogen. Funding announced includes:

- \$7B for H2Hubs
- \$750M RD&D efforts for electrolysis, manufacturing, and recycling

FY23 DOE Hydrogen Program: ~\$418M















Thank you



International Partnership for Hydrogen and Fuel Cells in the Economy



U.S. Hydrogen Interagency Task Force Celebrating Progress Video

















