

International Partnership for Hydrogen and Fuel Cells in the Economy

## **United States Update**

41<sup>st</sup> IPHE Steering Committee Meeting 19 - 20 March 2024 New Delhi, India



## **Announcements / New Initiatives United States**

## **Initiatives and Policies**

Released notice for proposed rulemaking on clean hydrogen tax credit (45V)

### **New RDD&D Activities – Examples**

- Over \$8B from for hydrogen RDD&D, including: ٠
  - \$7B for 7 H2Hubs to accelerate deployment and market lift off
  - \$750M for 52 projects across 24 states including electrolyzer and fuel cell manufacturing activities
  - \$59M to advance medium and heavy transportation, address permitting and siting challenges, and improve community engagement

## Collaborations

US joined more than 30 countries in declaration of ٠ intent on mutual recognition for hydrogen certification at COP in Dubai in December

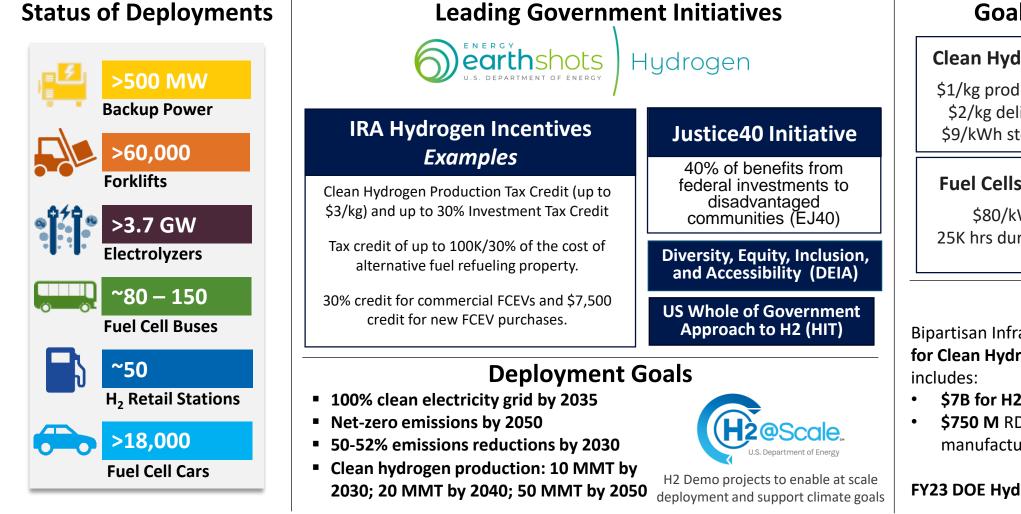
## DOE's \$7B to Support 7 H2Hubs in the US -*Key Pillar in the US National Clean Hydrogen Strategy*



Oct 2023 - DOE selected 7 regional clean hydrogen hubs to receive **\$7B** in Bipartisan Infrastructure Law funding

## **United States – Profile March 2024**





### **Goals or Focus Areas**

| Clean Hydrogen         | Electrolyzers      |
|------------------------|--------------------|
| \$1/kg production      | \$150/kW           |
| \$2/kg delivery        | 73% efficiency     |
| \$9/kWh storage        | 80K hrs durability |
| <b>Fuel Cells (HD)</b> | Enable J40         |
| \$80/kW                | Priorities,        |
| 25K hrs durability     | DEIA               |

## Funding

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

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

FY23 DOE Hydrogen Program: ~\$418M

## **Examples of Lessons Learned and Impact** *United States*



| Program initiative,<br>policy, regulation,<br>or mandate       | Lessons Learned/Outcomes   |
|--|--|
|  | <ul> <li>Executing a National Strategy requires close coordination and collaboration<br/>across the government.</li> </ul>   |
| Formation of the<br>Hydrogen<br>Interagency<br>Taskforce (HIT) | <ul> <li>HIT highlights a whole-of-government approach bringing together US federal government agencies to accelerate progress towards the US National Clean Hydrogen Strategy and coordinate on key topics including:</li> <li>Supply &amp; Demand at Scale</li> <li>Infrastructure</li> <li>Siting, Permitting</li> <li>Workforce, Equity and Justice</li> </ul> |
|  | <ul> <li>HIT approach builds stronger, more collaborative relationships across the<br/>federal agencies working on H2 which can help to accelerate H2 technology<br/>deployment and lift off in the US.</li> </ul>   |



# Thank you



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