

Morry Markowitz President & Executive Director FCHEA



H₂USA Mission Statement

The mission of H-₂ USA is to promote the commercial introduction and widespread adoption of FCEVs across America through creation of a public-private collaboration to overcome the hurdle of establishing hydrogen infrastructure.



Goals

- Establishing necessary hydrogen infrastructure and leveraging multiple energy sources, including natural gas and renewables
- Deploying FCEVs across America
- Improving America's energy and economic security
- Significantly reducing greenhouse gas emissions
- Developing domestic sources of clean energy and creating jobs in the United States
- Validating new technologies and creating a strong domestic supply base in the clean energy sector



H₂USA ORGANIZATION CHART

Steering Committees (Executive / Operational)

Secretariat

(Administered by FCHEA)

Hydrogen Fueling Station Working Group

- Specification, design, and deployment
- Fueling Resources
- Delivery
- Dispensing technology
- Reliability
- State and local Regulations
- Etc.

Locations Roadmap Working Group

- Identify and prioritize markets
 - Market Modeling Methodology
 - Clustering, destinations and locations
- Regulatory barriers (zoning)
- Station rollout timing

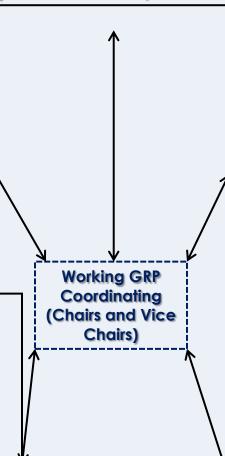
Market Support and Acceleration Working Group

- Product launch and timeline
- Studies and whitepapers
- Codes and standards (nonvehicle related)
- Component development
- Cost reduction
- Public education
 - First-responders
 - State and local authorities
 - Opinion leaders
- Etc.

Financing Infrastructure Working Group

- Private sector financing
- Government support
- Etc.





What will make this collaboration work?

- Broad spectrum of involved participants, including:
 - Automakers
 - Fuel cell suppliers
 - Materials and component OEMs
 - Energy companies
 - Federal and State Governments
 - Associations
 - Think tanks
 - NGOs
 - Financial community



Signatories on the Letter of Understanding



U.S. Department of Energy



Air Liquide Industrial US



American Gas Association



American Honda Motor Company



Global Automakers



DRIVING FOR THE FUTURE California Fuel Cell Partnership



Center for Hydrogen Research



Chrysler Group LLC



Electric Drive Transportation Association



Association of Global

Fuel Cell & Hydrogen Energy Association

Fuel Cell & Hydrogen **Energy Association**



General Motors Holding LLC

Massachusetts



Hydrogenics Corporation



Hyundai Motor America



ITM Power



Linde North America, Inc.

NISSAN GROUP OF NORTH AMERICA





Nissan North America R&D



Massachusetts Hydrogen

Coalition

Nuvera Fuel Cells



Mercedes-Benz USA, LLC



PDC Machines Inc.



National Association of Convenience Stores



National Renewable Energy Laboratory





Plug Power



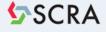
Proton OnSite



Sandia National Laboratories



Savannah River National Laboratory



SCRA



Tovota Motor North America



Pacific Northwest National Laboratory



Key Action Areas

- Financing Infrastructure
- Hydrogen Fueling Capability



- Market Support and Acceleration
- Locations Roadmap









Thank You

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