NASEO Transportation Committee
August 31, 2015
FCHEA’s Mission

- Our mission is to advance the commercialization of and promote the markets for fuel cells and hydrogen energy
Our Members
Fuel Cells 101

- Fuel cells generate electricity using hydrogen to drive an chemical reaction, not combustion – the only byproducts are heat and water.

- Hydrogen can be generated from a range of sources, both traditional and renewable.
Fuel Cells 101

- Fuel cells can be used to power nearly anything that users electricity, including utilities, businesses, datacenters, telecommunications towers, forklifts, and light-duty vehicles.
FCEV Developments

- **Hyundai Tucson Fuel Cell**
  - Began leasing to customers in Southern California in June 2014

- **Toyota Mirai FCEV**
  - Will be sold and leased to customers in California later this year

- **Honda FCV Concept**
  - Will be sold to customers starting next year
FCEV Developments (cont.)

- **Mercedes-Benz B-Class F-Cell**
  - On-going Daimler FCEV Pilot for began in 2010

- **Volkswagen / Audi**
  - Unveiled three hydrogen-powered FCEV concept vehicles at 2014 LA Auto Show
    - A7 Sportback h-tron quattro
    - Volkswagen Golf HyMotion
    - Volkswagen Passat HyMotion
Automaker Partnerships

- **Toyota / BMW**
  - Working on joint next-generation FCEV platform for 2020

- **Ford / Nissan-Renault / Daimler**
  - Jointly Developing a FCEV stacks and systems targeting 2017

- **General Motors / Honda**
  - Co-developing a next generation fuel cell and hydrogen storage system for 2020 timeframe
The mission of H₂USA 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

Will result in...

- 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
Signatories on the Letter of Understanding