

## FACTS ABOUT

## California Hydrogen Highway Network

### Making Progress toward a Hydrogen Future

The mission of the California Hydrogen Highway Network (CaH2Net) is to assure that hydrogen fueling stations are in place to meet the demand of fuel cell and other hydrogen vehicle technologies that are being placed on California's roads. Hydrogen fuel and vehicles play a key role in meeting California's air quality, climate change, and energy security goals. California has long been a leader when it comes to setting emission standards for cars. This has brought many zero and near-zero emission technologies, including those fueled by hydrogen, to our roadways.

In 2004 the state developed the Blueprint Plan (Plan) describing the actions needed to create a hydrogen highway. This Plan identified four main objectives to successfully move toward this goal:

- Develop the California Hydrogen Highway Network (CaH2Net) in phases
- The State should provide co-funding for the first phase of stations
- Environmental goals of the network should achieve a 30% reduction in GHG, utilize at least 20% renewable resources in the production of hydrogen, and reduce toxic and smog forming pollutants
- The State should establish policies that help create a favorable business climate for establishing hydrogen infrastructure and the California Environmental Protection Agency (Cal/EPA) should lead in the outreach efforts

Although the specific station numbers mentioned in the Plan seemed reasonable at the time (50-100 stations by 2010), there has been a strategic refocusing of the program's infrastructure deployment strategy to put additional emphasis on creating clusters of hydrogen fueling stations in the key urban areas where vehicle placements are taking place. These cluster areas are located in the greater Los Angeles County, Orange County, Sacramento and the San Francisco Bay Area. To date, the number of stations are meeting vehicle refueling needs. And, with planned stations coming online we will meet the expected fueling needs for vehicles being deployed through 2014. Connector and destination stations will follow in the next phase of connecting these clusters.

The following summary gives the status of the California Hydrogen Highway Network.

- By the end of 2011 there will be 8 public hydrogen stations in operation.
- New stations are being built - these are public access stations, located at retail gasoline outlets in areas where current and future fuel cell vehicle customers will need them.
- Some existing stations have been dismantled because they have come to the end of their useful life. Most of these stations were limited access for private fleets of vehicles. Others were research or early technology demonstration stations. Learnings have been completed from these stations and new, higher capacity, more efficient and assessable stations will be deployed.
- Four rounds of co-funding have been announced by the state of California. These competitive awards should result in nearly 20 public access stations by 2013. Other stations have been funded privately and through funds from the federal Department of Energy and local agencies.
- Environmental goals remain consistent with those included in the Plan.

- The state continues to support fuel cell vehicles and hydrogen fuel through regulatory and policy efforts such as the Zero Emission Vehicle regulation, the California's Global Warming Solutions Act, and the Alternative and Renewable Fuel and Vehicle Technology Program.

Progress continues in the area of hydrogen infrastructure and vehicles as California, other states and countries as well as major automakers agree that fuel cell vehicles are a major long term solution for for sustainable transporation.

#### For More Information

For questions regarding the CaH2Net, please contact Gerhard Achtelik, Manager, ZEV Infrastructure Section, at [gachteli@arb.ca.gov](mailto:gachteli@arb.ca.gov) or visit the CaH2Net website at [www.hydrogenhighway.ca.gov](http://www.hydrogenhighway.ca.gov). To obtain this document in an alternative format or language, please contact the ARB's Helpline at (800) 242-4450 or at [helpline@arb.ca.gov](mailto:helpline@arb.ca.gov). TTY/TDD/ Speech to Speech users may dial 711 for the California Relay Service.