

The Future of Public Transport – In Pursuit of Zero Emissions



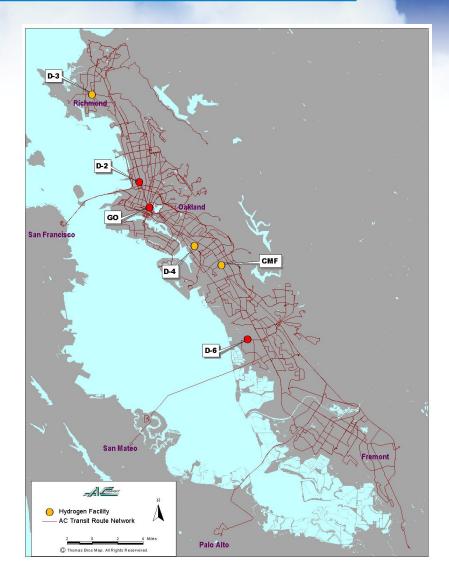
H. E. Christian Peeples





AC Transit

- Serving 1.5 million people in 13 cities
- 67 million passengers
- 650 buses
- 2,190 employees
- \$309 million budget
- 105 lines (27 transbay)





Getting Started with Hydrogen

- Under Development Since November 1999
- Member of *California Fuel Cell Partnership*
- Member of *Fuel Cell and Hydrogen Energy Assn*
- Member of *The Climate Registry*







1st Generation Bus

- >267,000 Miles
- >700,000 Passengers
- 1.6 to 2.0 Times Better Fuel Economy
- 43% GHG Reductions (Reforming Natural Gas; 100% reduction with solar or wind hydrogen)









3rd Generation Design

- 5,000 lbs. Lighter
- Better Batteries
- 130,630 miles (since Aug 2010)
- > 10,000 Fuel Cell Hours
- > 650,000 Miles UTC Fuel Cell Fleet
- Over 1 million passengers in the Bay Area
- Passengers, Mechanics, and Drivers Love Them

"Like Disneyland in The Real World!"



ACT Solar Power – 1.3 Megawatts

AC Transit solar system will provide renewable power to Emeryville station

\$6.4 Million FTA TIGGER I Grant for new 700 kW solar system







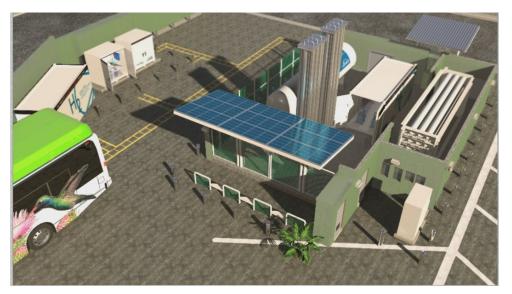


Emeryville Energy Station

- Solar Electrolysis
- Liquid Hydrogen



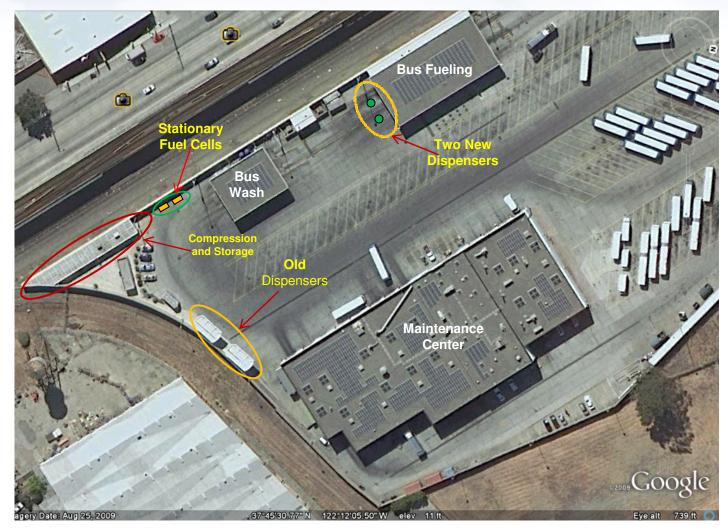
- Fast Fueling (5-6 kg/minute)
- Buses and Cars
- August
 Startup







Seminary Station – 400 kW Fuel Cell TIGGER II





www.actransit.org/environment



LEADER

New Station Objectives

- Steps toward Commercialization
- 1.Fast Fueling
- 2. Energy Efficient
- **3. Green Footprint**
- 4. Scalable



5. Integration with Existing Inline Diesel Fueling





Contact Information

http://www.actransit.org/environment/the-hyroad/

H. E. Christian (Chris) Peeples

At-Large Director cpeeples@actransit.org

Jaimie Levin

Director of Alternative Fuels Policy 510-891-7244, jlevin@actransit.org

Joe Callaway

Senior Project Manager 510-891-7220, jcallaway@actransit.org

