



California Hydrogen Highway Network Zero Emission Bus Program

Zero Emission Buses play a key role in California's plan to meet our air quality, greenhouse gas, and energy security goals. Each ZBus produces zero smog forming pollutants and is estimated to reduce greenhouse gas emissions by 46 percent over a diesel fueled bus. The Zero-Emission Bus (ZBus) regulation was established in 2000 with the intention of gradually developing a California transit fleet composed of 15% zero emission buses. The California Legislature has supported ZBus deployments by allocating \$6.4 Million towards these buses. Current demonstrations are underway throughout the State to validate technology readiness. In total, 19 zero emission buses will soon be in full operation within California transit fleets. These demonstrations include:

- A 12-bus demonstration in the Bay Area—five transit agencies in the Bay Area have joined together to purchase and operate 12 hydrogen fuel cell buses and construct two hydrogen dispensing stations to sustain bus operation. This demonstration project, lead by A/C Transit is set to begin operation in the summer of 2010. Once all 12 buses are in full operation, hydrogen throughput is estimated to be 300 kilograms of hydrogen per day.
- A few smaller ZBus demonstrations are progressing in cities like Burbank, Palm Springs, and Pomona.

In addition to their air quality benefits, zero emission buses makes sense because they, 1) provide high visibility for the technology by operating in densely populated urban areas, 2) have centralized fueling allowing one station to serve many buses, 3) can provide fuel for passenger vehicles, and 4) can offer health benefits to those living in some of the most densely populated areas in California.



For further information on the California ZBus program, please visit <http://www.arb.ca.gov/msprog/bus/zeb/zeb.htm>.

