



Public Access Compressed Natural Gas Fueling Station 810 N. Lake, Burbank, California

Contractor

City of Burbank

Cosponsors

South Coast Air Quality Management District, California Energy Commission and Mobile Source Air Pollution Reduction Review Committee

Project Officer

Larry Watkins

Background

The AQMP identifies the use of alternative clean fuels in mobile sources as a key attainment strategy. Natural gas vehicles (NGVs) have demonstrated significantly lower emissions than gasoline or diesel vehicles. The 1190 Fleet Rules require implementation of alternative fuel heavy-duty vehicles in public fleets in the Basin. In order to meet public and private fleet fueling demands, there was a need to increase new natural gas fueling infrastructure throughout the greater Los Angeles Basin. The City of Burbank's station supports the City's fleet of CNG vehicles, as well as additional CNG vehicles from outside fleets, many of which are subject to AQMD's fleet rules.

Project Objective

The objective of this funding opportunity is to develop public access alternative fuel infrastructure throughout the South Coast Air Basin.

Technology Description

This project involved the design and construction of a publicly accessible compressed natural gas (CNG) fueling station in the South Coast Air Basin, specifically at 810 N. Lake, Burbank, CA. The station provides convenient, safe, reliable and competitively priced CNG for the City's fleet and fleets traveling along Interstate 5. The station, located approximately one mile from the Burbank Airport, fills a natural gas fueling infrastructure gap.

Equipment at this facility includes twin IMW Model 50DA/150L4, four-stage, skid-mounted electric motor driven CNG compressors with a total system capacity of 950 SCFM, three storage bottles, a regenerative dryer, illuminated canopy and two light-duty fueling dispensers. There is a total of four fueling hoses, two 3,600 psi and two 3,000 psi. The fueling dispensers are the latest in technology and are capable of accepting various forms of payment, including Clean Energy's proprietary fueling card as well as MasterCard and Visa. Training to fuel with CNG is possible either through the on-screen DVD training video on the dispenser or by the traditional means of personal training provided by City and Clean Energy's staff.

Status and Results

This station was commissioned and became operational on April 24, 2003. The City of Burbank hosted a grand opening gala event including a ribbon cutting ceremony. The event was well-attended and included many

city leaders. Personal recognition and special notes of appreciation was given to the California Energy Commission, Mobile Source Air Pollution Reduction Review Committee, South Coast Air Quality Management District and Clean Energy, the partners who provided funding for the station.

Monthly throughput at the station currently averages 11,522 gallons per month, with a projected maximum of 40,000 gallons per month.

Benefits

This new CNG station is part of the City of Burbank's commitment to reducing vehicle emissions by driving cleaner natural gas vehicles. Over the life of the program, the City is expecting to replace well over 100 fleet vehicles with clean natural gas vehicles, reduce hydrocarbon emissions by 56 tons and displace more than 66,000 barrels of oil.

In addition to the City of Burbank fleet vehicles, this station provides fueling for numerous taxi and shuttle owners/ operators and area companies including The Walt Disney Co.

Project Costs

This public/private partnership formed between the City of Burbank, Clean Energy and the South Coast Air Quality Management District (SCAQMD) resulted in a publicly accessible CNG fueling station at a total project cost of \$1,266,374. SCAQMD's funding was well leveraged in this project at a ratio of over \$5.50 to \$1.00.

Commercialization and Applications



Public/private partnerships are necessary to develop the critical fueling infrastructure throughout the South Coast Air Basin. Having this facility will eliminate the barrier of insufficient fueling sources for drivers of natural gas vehicles.



Grand Opening, April 24, 2003
Station in-service

Updated: August 9, 2005