Clean Cities
Los Angeles

South Los Angeles Clean Fuel Fleet Project:

Clean Fueling Station Opening at
South Los Angeles District Collection Yard
786 South Mission Road
Los Angeles, California 90023

Los Angeles Clean Cities Coalition
City of Los Angeles Government Fleets
General Services Department
Bureau of Sanitation
Environmental Affairs Department

DEPARTMENT OF
Heart of the City
GENERAL SERVICES

ENVIRONMENTAL AFFAIRS DEPARTMENT
CITY OF LOS ANGELES
FOUNDED 1781

CITY OF LOS ANGELES
SANITATION
DEPARTMENT OF
PUBLIC WORKS

South LA Clean Fuel Fleet Project

On August 30, 2007 a new combined liquefied natural gas (LNG) and fast-fill compressed natural gas (L/CNG) clean fueling facility opened in South Los Angeles. The station has a storage capacity of 45,000 gallons of LNG.

South LA Clean Fuel Fleet Project

Mayor Antonio Villaraigosa was on hand to explain how the station will help serve the City's growing fleet of alternative fuel vehicles (AFVs). The fleet includes 307 LNG solid resources (refuse) collection trucks, 54 CNG street sweepers, and many other City AFVs. The street sweeper fleet is steadily growing and soon all City street sweepers will run on CNG.

Los Angeles has the largest municipally-owned alternative fuel solid resources collection fleet in the nation.

South LA Fleet Project - Construction

The project took over 18 months to build, as construction began in May of 2005. The station was in a demonstration/testing mode for 8 months prior to the grand opening.

The South LA Station is the third in a series of similar stations. The first two stations were constructed in the West San Fernando Valley (45,000 gal.) and East Valley (60,000 gal.) - shown on right.

South LA Fleet Project - Funding

All 3 stations were partially funded using $450,000 in Clean Cities U.S. Department of Energy grant awards received through the California Energy Commission. A fourth station is operating in the Harbor area, at a 6,000-gallon capacity.
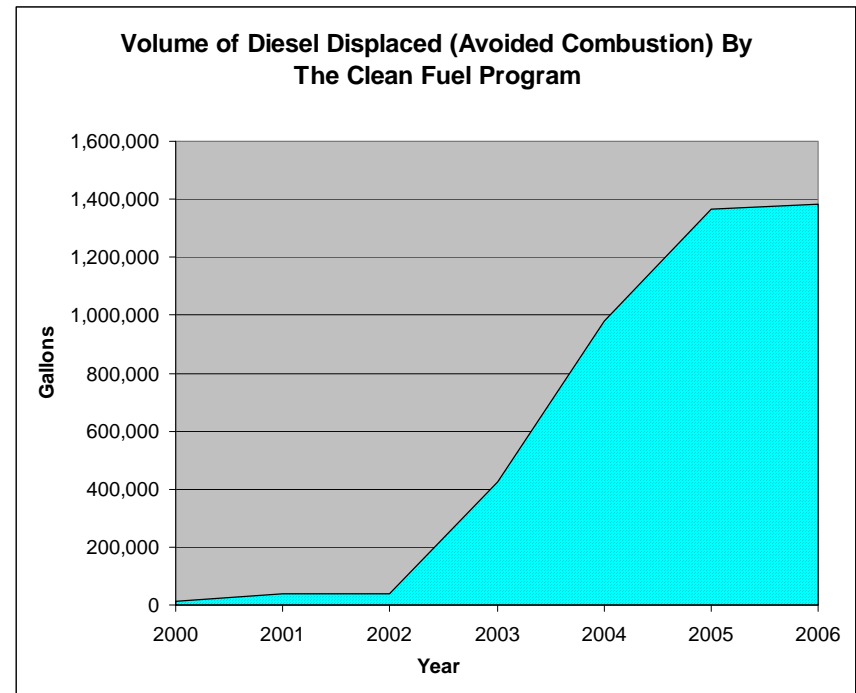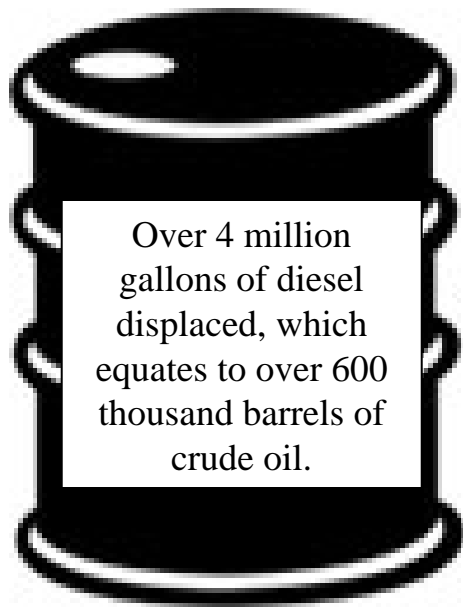
A total of over $15 million in grants have been secured by the Environmental Affairs Department to help the City's solid resources collection fleet grow in size.

$15 million in grant funds represents 68 clean fuel vehicles.

South LA Fleet Project – Fuel Savings

Over 4 million gallons of diesel have been displaced since 2000, when the City started using LNG and L/CNG in its alternative fuel in its solid resources collection fleet.

Over 4 million gallons of diesel displaced, which equates to over 600 thousand barrels of crude oil.

Volume of Diesel Displaced (Avoided Combustion) By The Clean Fuel Program
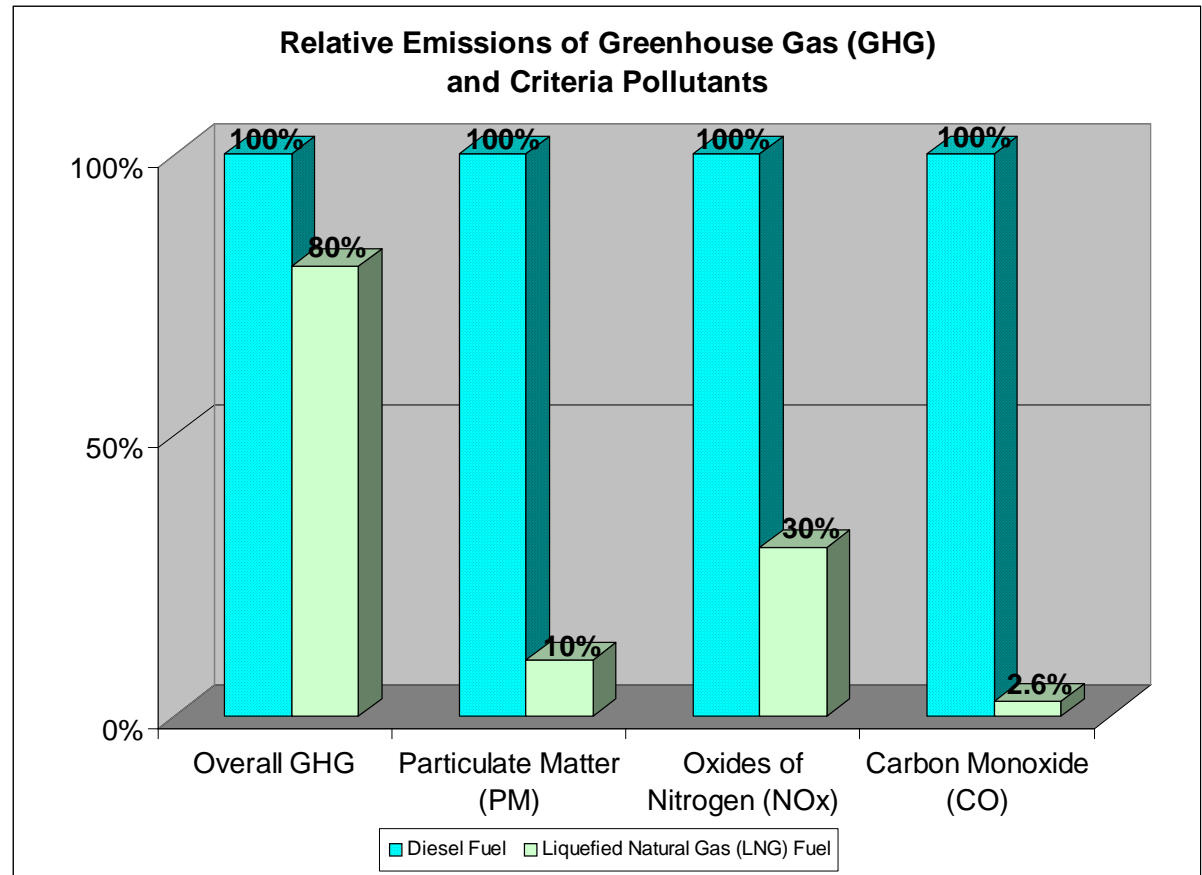
South LA Fleet Project – Challenges

The greatest challenge during the project was the site preparation and cleanup required prior to construction. Some 27,000 tons of contaminated soil were removed and cleaned up over a period of three months at a cost of $330,000.

South LA Fleet Project - Emissions

This chart represents the relative emissions using natural gas versus conventional diesel as a transportation fuel for solid resources collection trucks. The greatest reduction is in CO, followed by PM emissions.

Relative Emissions of Greenhouse Gas (GHG) and Criteria Pollutants

	Overall GHG	Particulate Matter (PM)	Oxides of Nitrogen (NOx)	Carbon Monoxide (CO)
Diesel Fuel	100%	100%	100%	100%
Liquefied Natural Gas (LNG) Fuel	80%	10%	30%	2.6%

South LA Fleet Project – Final Goal

Since establishing a "Clean Fuels Policy" in 2000, the City's entire alternative fuel/advanced technology fleet has steadily increased by an average of over 21 percent per year, now totaling over 2,500 vehicles.

This City's government fleets comprise the LA Clean Cities Coalition. The Coalition is hard at work, doing its part, to help bring blue skies to the City of Los Angeles more often, while lessening the nation's dependence on conventional fuels.

South LA Clean Fuel Fleet Project

For further information contact:

Angela Sherick
Director of Fuel Services and Environmental
   Compliance Division
City of Los Angeles, General Services Department
111 East 1st Street, 6th Floor
Los Angeles, California 90012
(213) 978-3780
angela.sherick@lacity.org

Kim J. Tran
Environmental Supervisor II
Alternative Fuel Program
City of Los Angeles, Bureau of Sanitation
1149 South Broadway Street, 8th Floor
Los Angeles, California 90015
(213) 485-3522
kim.j.tran@lacity.org

Heloise Froelich
LA Clean Cities Coordinator, Env. Supervisor I
Air Quality Division, Mobile Source Program Grants
City of Los Angeles, Environmental Affairs Dept.
200 North Spring Street, Room 2005
Los Angeles, California 90012
(213) 978-0854
heloise.froelich@lacity.org