



## SACOG Board of Directors

March 13, 2008

### SECAT Funding for City of Sacramento Alternative Fuel Vehicle Infrastructure

**Issue:** Whether to approve an application for \$300,000 of Sacramento Emergency Clean Air Transportation (SECAT) program funding from the City of Sacramento for the purchase of a mobile liquefied natural gas (LNG) refueling system.

**Recommendation:** The Climate & Air Quality Committee unanimously recommends that the Board approve the application and fund the project.

**Committee Action/Discussion:** Since the inception of the SECAT Program, the City of Sacramento has been an active participant in using alternative fuel technologies to displace the use of diesel vehicles in their fleet. The program has funded the incremental cost of 84 vehicles—mostly refuse trucks—for the City of Sacramento, approximately \$3.0 million. As part of the package, the SECAT Program funded one of the two LNG fueling stations at the Meadowview Corporate Yard in South Sacramento in combination with other funds from the Sacramento Metropolitan Air Quality Management District. While the city has been successful running LNG out of the southern portion of Sacramento, they need additional infrastructure to increase the number of routes where the LNG can be used.

Working with the city, air district staff has determined that a mobile refueling system can decrease the amount of diesel routes at the lowest cost to the program. This has the potential to increase the usage of the existing LNG fleet, and fulfills the commitment of staff to request additional funding for infrastructure in exchange for the city purchasing an additional 21 refuse trucks meeting 2010 emission standards, \$531,972 of which was funded through the SECAT program. The purchase of these vehicles will reduce the NOx emissions by 5.32 tons per year. Staff would like to continue to support the city's efforts to maximize the use of LNG and has determined that it is appropriate to allocate \$300,000 toward a mobile refueler to serve these trucks and help serve the rest of the City's LNG fleet. The combination of the 21 vehicles and the mobile refueler gives a total project cost effectiveness of \$156,000/1-year ton NOx which is lower than most alternative fuel projects funded by SECAT.

The Committee inquired about the feasibility of using existing County of Sacramento LNG refueling stations. The County has an extensive LNG fueling station at the North Area Recovery Station on Roseville Road, including fixed and mobile refuelers. The County is also developing a LCNG station at the County Branch Center on Bradshaw Road to convert pipeline CNG to LNG for their fleet and is investigating the feasibility of using methane gas recovered from the Kiefer Landfill to create LNG for their refuse truck fleet.

Staff recommends the project, since the SECAT program was designed to support alternative fuel projects and infrastructure in the Sacramento region, and believes that the mobile LNG refueler will enhance the use of alternative fuels. The project has the potential to increase the usage of the LNG fleet and decrease the use of legacy diesel equipment and will help to meet the commitment of staff based on the city's recent purchase of LNG refuse trucks. The Board has used SECAT funds for similar purposes in the past. Because of these reasons, staff recommends the approval of the application.

Approved by:

Mike McKeever  
Executive Director

MM:KLW:gg

Key Staff: Karen L. Wilcox, Director of Finance, (916) 340-6210  
Sacramento Metropolitan Air Quality Management District