

California Air Resources Board

**Greenhouse Gas Quantification Methodology for the
California Air Resources Board Low Carbon Transportation
Targeted Car Sharing and Mobility Options in Disadvantaged
Communities Pilot Project**

**Greenhouse Gas Reduction Fund
Fiscal Year 2014-15**

A. Introduction

The Air Resources Board (ARB) is required to develop quantification methods for agencies receiving Greenhouse Gas Reduction Fund (GGRF) appropriations per SB 862 (Senate Budget and Fiscal Review Committee, Chapter 36, statutes of 2014).

B. Quantification Methodology

ARB developed the Targeted Car Sharing and Mobility Options in Disadvantaged Communities Pilot Project (Car Sharing Pilot Project) to provide grants to implement advanced clean car sharing fleets or other mobility options into the State's most disadvantaged communities.

ARB developed a competitive solicitation for the Car Sharing Pilot Project which contains the quantification methodology for use in estimating greenhouse gas (GHG) emission reductions of proposed projects funded with fiscal year (FY) 2014-15 GGRF monies. The methodology compares emission reductions between proposed projects to aid in selecting projects for funding.

The quantification methodology provides an initial estimate of the GHG emissions reductions resulting from two primary project models: traditional car sharing and vanpools. This quantification methodology does not account for all possible project types. Annual emission reductions are calculated by replacing the miles driven by a conventional passenger vehicle fleet with miles driven by an advanced technology vehicle fleet, which may include plug-in hybrid electric vehicles (PHEV), battery electric vehicles (BEV), fuel cell electric vehicles (FCEV), or a combination of advanced technology vehicles.

The Car Sharing Pilot Project quantification method is available here (see Attachment 4): <http://www.arb.ca.gov/msprog/aqip/solicitations/msc1504appa.pdf>

C. Next Steps

ARB will continue to evaluate and update the GHG emission reductions quantification methodologies as necessary for future FY GGRF appropriations. Quantification methodologies are posted on ARB's auction proceeds webpage at: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/quantification.htm>