

CITY OF NORWALK TRANSIT SYSTEM
FINAL REPORT

Contract No. MS16114

**AB2766/MSRC Local Government Match Program
Purchase of 3 Compressed Natural Gas Bus Engines**



SUBMITTED MAY 2, 2018

PREPARED FOR THE MOBILE SOURCE AIR POLLUTION REVIEW COMMITTEE (MSRC)
UNDER THE AB2766 DISCRETIONARY FUND WORK PROGRAM

FINAL REPORT

ACKNOWLEDGMENTS

The City of Norwalk's Transit System (NTS) would like to acknowledge the following organizations and personnel for their contributions to this project:

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This report was submitted in fulfillment of contract No. MS16114, and MSRC Purchase of 3 Compressed Natural Gas Bus Engines Project by the City of Norwalk Transit System under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of 1/10/18.

DISCLAIMER

The statement and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (SCAQMD). The mention of commercial products, their sources or their uses in connection with material reported is not to be construed as either an actual or implied endorsement of such products.

PROJECT DESCRIPTION AND WORK PERFORMED

The purpose of this final report is to demonstrate that the project was completed on time, within budget, and according to the specifications of the statement of work.

The mission of Norwalk Transit System (NTS) is to serve the community by providing efficient transit service that is committed to quality, safety and excellence.

Transportation accounts for about 33 % of Greenhouse Gas Emissions in the U.S. Ultimately, NTS' goal is to contribute to climate change by 1) reducing carbon outputs of motor vehicles and 2) through deployment of zero emission buses.

NTS requested \$45,000 in MSRC Clean Transportation Funding towards the purchase of (3) Cummins Westport ISL G NZ 8.9 liter natural gas engines as part of the acquisition of three (3) new Compressed Natural Gas (CNG) buses in 2017.

NTS entered into an Assignment & Assumption agreement with Erie Metropolitan Transit Authority (EMTA) for two (2) CNG buses. In addition, NTS is exercising the option with Jackson Transportation Authority (JTA) for one (1) CNG bus. These buses will replace the two (2) 2005 and one (1) 2006 New Flyer Hybrid Electric buses. By 2018, more than 60% of the fleet will be comprised of CNG buses.

The buses arrived to NTS in January 2018, with the engine scoped, the project has been completed satisfactorily, within budget and regulatory compliance.

PROBLEMS ENCOUNTERED

The project was completed without any hindrances or delays, the buses were actually delivered earlier than scheduled.

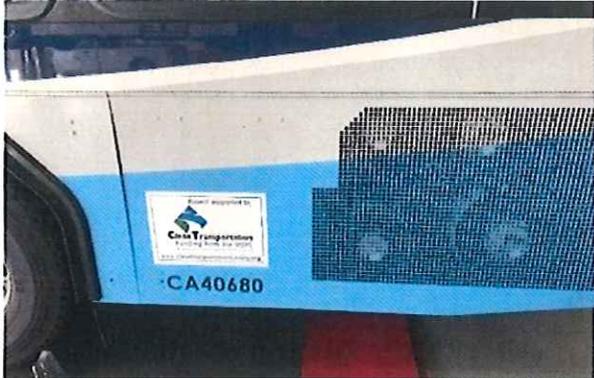
EMISSION BENEFITS

The mission of Norwalk Transit System (NTS) is to serve the community by providing efficient transit service that is committed to quality, safety and excellence. NTS' overall objective is to provide reliable transportation to the riding community by connecting residents to stations and stops for educational, employment and other activities and opportunities in the service area and the region. NTS routes connects patrons to many regional activity centers such as Los Angeles County Superior Court, Los Angeles county Regional Public Library, Los Angeles County Recorder's Office, State Employment Development Department, Norwalk City Hall, Cerritos College, and Rio Hondo College. Maintaining the buses and associated equipment will provide increased service reliability in ensuring the fleet has an overall higher mean distance between failures. Reliability is attractive not only to current customers who may consider taking NTS for additional trips but is attractive to potential customers who may consider taking public transportation if reliability is not degraded.

As previously stated, Transportation accounts for about 33 % of Greenhouse Gas Emissions in the U.S. Ultimately, NTS' goal is to contribute to climate change by 1) reducing carbon outputs of motor vehicles and 2) through deployment of zero emission buses. An average private vehicle emission rate is about 1.0 pound of CO₂ per mile. An automobile driven by a single person 20 miles round trip to work will emit 20 pounds of CO₂. Thus, for every person utilizing NTS transit service would result in reduction of greenhouse gas emissions. NTS has already contributed to reduction in emissions by changing fuel paths to CNG which emits up to 25% less greenhouse gas emissions (CO₂) than diesel vehicles. Removal of the diesel/gasoline fueled buses from the fleet and incorporating zero and/or near zero

emission technology will have most impact on the environment as this will remove diesel particulate matter (PM), hydrocarbons (HC), oxides of nitrogen (NOx) and carbon monoxide (CO) and other harmful air pollutants. All these smog forming pollutants contribute to health risks including heart and lung disease.

PHOTOGRAPHS AND OUTREACH





Norwalk Transit System (NTS) was successful in obtaining a Mobile Source Air Pollution Reduction Review Committee (MSRC) grant, funding the purchase of three (3) Compressed Natural Gas (CNG) bus engines; which have been installed on three (3) new NTS 40-foot buses acquired from Gillig Corporation. These new buses, with MSRC engines, will replace the three (3) 2005/06 hybrid New Flyer buses that have reached their useful life expectancy.

These buses were purchased in keeping with the City of Norwalk's commitment to being environmentally friendly. The buses are equipped with technology enhancements that result in the engines producing nearly zero emissions, as CNG burns cleaner than petroleum and contains significantly less pollutants than gasoline.

NTS has previously committed to reducing its carbon footprint by replacing its fleet of diesel/gasoline fueled buses and incorporating zero and/or near zero emission technology, which will have most impact on cleaning the environment.

More information on Norwalk Transit System services can be obtained by contacting Customer Service at (562) 929-5550 or e-mail: transportation@norwalkca.gov





City of Norwalk, CA @CityofNorwalkCA · Apr 5

\$\$ from the #MobileSourceAirPollutionReductionReviewCommittee allowed the #NorwalkTransitSystem to replace 3 older hybrid buses with new 40 ft coaches outfitted with grant-funded Compressed Natural Gas (CNG) engines. #look4thelabel to see if you're on board one of these buses!



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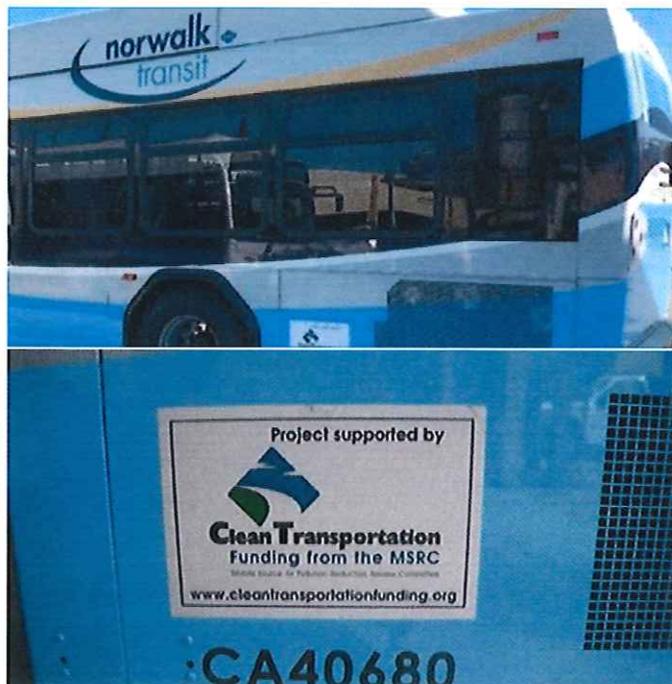
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City of Norwalk, California - City Hall added 2 new photos.

April 5 at 2:42pm · 🌐

Thanks to the Mobile Source Air Pollution Reduction Review Committee (MSRC), the Norwalk Transit System was able to replace three older hybrid buses with new 40 foot buses outfitted with MSRC grant-funded Compressed Natural Gas (CNG) engines. These buses use nearly zero emission technology, and help keep our air and environment clean. #look4thelabel to see if you're on board one of these special vehicles!



Like Comment

Steven Luster, Sharon Duckett, John Ybarra and 30 others like this. Top Comments

SUMMARY AND CONCLUSIONS

NTS' service area is comprised of disadvantaged communities which includes minorities and low income residents. Majority of the service area is also vulnerable to adverse health effects due to high exposure to pollution. NTS' overall objective is to provide safe, reliable transportation to the riding community by connecting residents in the disadvantaged communities to stations and stops for educational, employment and other activities and opportunities in the service area and the region.

It was in support of this effort that NTS embarked in this joint effort with GILLIG and MSRC in order to alleviate its community from these harmful environmental hindrances, and continue to fulfill its purpose as a transit provider. This project has not only allowed for emission reductions, but also a better air quality and service reliability. This effort would have been possible without the support of the MSRC.

Looking ahead for NTS, the agency continues to thrive on its objective, as such, the agency has already sought, and successfully secured funding for even more efficient bus technologies that will allow NTS to make even more dramatic imprints on the environment and the communities it serves.