



Sustainable Human Development Program

[2017] PROJECT ACCOMPLISHMENT REPORT

I. Project Information

Project Code: HDRGE

Project Title: Completion of the Roadmap on the Use of the Alternative Fuels for Transportation Vehicles

Project Start: December 1, 2014

Project End: February 28, 2017

Project Price: P5,000,000.00

Client Organization: Department of Energy (DOE)

II. Project Team

Project Manager : Mary M. Sagapan

Team Members : Dorothea Boy-Navarro, Myra Nazarrea, Ron Allan Entrebillo, Carissa Inez delos Santos, Noel Pelle, Editha Estanislao, Jenneffer Casalan, Regina Fernandez, Bernadita Garzon

Supervising Fellow : Ma. Teresa Serrano replaced by Alan S. Cajes

Consultants/ Resource Persons: Mr. Roberto Julian, Ms. Ma. Esperanza Rasco and Mr. Dennis Ramon Posadas

III. Project Details

Project Description

In September 2011, the DOE participated in the APEC Energy Policy Roundtable and Joint Transportation and Energy Ministerial Conference in which one of the major goals is to move the APEC member countries towards a sustainable, energy efficient, and low-carbon transport future¹.

To date, hundreds of thousands of commuters in Metro Manila depend heavily on public transport especially during peak hours. Many of these commuters take public mass transport systems, such as light rail systems (e.g. LRT1, MRT, and LRT3), commuter buses, taxis, jeepneys, tricycles, and even unregistered, unregulated, improvised public transport such as pedicabs or the kuligligs. Others utilize private vehicles and company transport services.

Generally, the transport sector is a major source of air pollutants in the metropolis. Most of these forms of transport are heavily dependent on fossil fuels that result in high carbon emissions. According to the 2011 Philippine Petroleum Oil Mix and Transport Consumption, transport petroleum consumption was about 9.5 billion liters with a total road transport petroleum consumption of 8.3 billion liters. Aside from carbon emission, the transport sector is considered a major source of particulate matter, which exposes the commuting public to respiratory health risks that are associated with poor air quality.

¹ Philippine Energy Plan 2012-2030



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	<p>Since most forms of transport are heavily dependent on fossil fuels, the sustainability of the current transport sector will be subject to limitations in world supply of oil, fluctuations in world oil prices, and volatile foreign exchange rates. Given these factors and the continuously declining global supply of oil, there is a need for a more sustainable and planet-friendly transport system that would meet the demands of commuters in Metro Manila and other urban areas.</p> <p>Shifting to alternative fuels and technologies will significantly address the demand for a more sustainable transport system for the commuting public. In particular, the use of electricity, liquefied petroleum gas (LPG), and compressed natural gas (CNG) can contribute toward the attainment of a sustainable transportation system for the country.</p>
Project Objective	<p>The scope of the technical assistance will focus on two major deliverables: (1) completion of the roadmap on alternative fuels and (2) provide capacity building programs to DOE and selected stakeholders. It will also include promotion of electric vehicles, auto-LPG for taxis and jeepneys, and CNG for buses. The project will take-off on the previous accomplishments and initiatives being done by the DOE in selected cities and municipalities.</p> <p>Specifically, the project aims to:</p> <ol style="list-style-type: none">1. Conduct of consultation meetings, round table discussions, focus group discussions and key informant interviews as inputs for the preparation of the AFT Roadmap;2. Draft and finalize the Alternative Fuels and Technologies Roadmap;3. Conduct presentation of the AFT Roadmap to different stakeholders; and4. Conduct of promotional activities of alternative fuels especially the E-Trike Project.
Focus Area	Professional Education, Sustainable Human Development
Project Type	Technical Assistance, Training
Project Beneficiary	Transport sectors and general public
Regional Coverage	National

IV. Project Accomplishments

Key Activities Implemented	<p>The intended output of the project was the completion of the Alternative Fuels and Technologies Roadmap. However, the Department of Energy requested to prioritize the conduct of E-Trike Project related activities as follows:</p> <ol style="list-style-type: none">a. Conduct of E-Trike profiling in Davao City and meeting with DC Electric Vehicle (DCEV);b. Facilitated DOE's participation to the LMP General Assembly for the marketing of
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	<p>the E-Trike project;</p> <ol style="list-style-type: none">Conduct of E-Trike Strategic Planning Workshop in Puerto Princesa;Assistance in the Evaluation of the Technical Bid Proposals for the Supply and Delivery of 3000 units of E-Trikes;Meeting with the DAP sa Mindanao and DOE Field Operation Office regarding the E-trike Project;Presentation of E-Trike Project Administration Framework to the DOE Field Offices;Assistance in the Evaluation of the Financial Bid Proposals for the Supply and Delivery of 3000 units of E-Trikes; andConduct of Round Table Discussions (RTDs), focus group discussion (FGDs) and key informant interviews (KIIs) with experts for the drafting and finalization of the AFT Roadmap.Preparation of the cost benefit analysis of the Alternative fuels for transportation.
Major Outputs	<p>The following were the major outputs of the activities conducted:</p> <ol style="list-style-type: none">Profiling Reports;Workshops Documentation Reports;Minutes of Meetings;Successful bidding process of 3000 E-Trike Units; andDraft and final copy of the Alternative Fuels and Technology (AFT) Roadmap.Cost benefits analysis of the AFT.
Project Outcome/Impact	<p>The initial project impact is the increasing awareness of the tricycle operators and drivers on the importance of curbing carbon dioxide emission from old vehicles e.g. two-stroke tricycles which contribute to climate change. Adopting cleaner technologies such as using e-vehicles e.g. e-trike will lessen carbon dioxide emissions. One of the DOE's programs is to reduce these emissions through the use of alternative fuels such as e-trike.</p>
Lessons Learned	<p>The following were the lessons learned during the project implementation:</p> <ol style="list-style-type: none">Regular meeting with the client is necessary to immediately address project concerns.Managing the client, especially the designated local counterpart with strong personality from the Office of the former EUMB Undersecretary, is a challenging task. The project team members need to balance everything and handle discussions professionally.The project budget is a transfer of fund that requires submission of audited financial report. The Project Manager should ensure judicious use of the project fund so not to have disallowances and any Audit Observation Memorandum (AOM) from DAP resident COA Auditor.



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Planned
Activities for the
Year (2017)

The activities to be conducted for 2017 are the following:

- a) Approval of the Alternative Fuels and Technologies (AFT) Roadmap with the Cost Benefit Analysis of using alternative fuels; and
- b) Preparation of project terminal and financial reports for audit of DAP resident auditor.

V. Attachments

- Summary of Evaluation for Course and Resource Person (for training program) – N/A
- Certificate of Project Closure (for all completed projects) – *Note: Still waiting for the issuance of Certificate of Closure from the client.*

Prepared by:


MARY M. SAGAPAN
Project Manager

Noted / Approved by:


ALAN S. CAJES
Head, SHDP

Notes:

1. Project details on Section I-III can be generated thru PMIS based on PMs Inputs.
2. Project Managers are required to accomplish Section IV & provide Section V to reflect results of project implementation
3. Project Managers can update/adjust the pre-filled sections(I-III) based on actual data