CNG TAXI

Project Title:

Renewal of city taxi fleets by retirement of 140000 old gasoline powered taxis and supply of dedicated CNG powered long range taxies.

Brief Description:

This project is basically aiming at reducing gasoline fuel consumption by fuel shifting of considerable share of the operating fleet from gasoline to CNG. In this project, gasoline powered city taxies older than 10 years, are considered to be retired and replaced by new CNG powered long range taxies. The average range of new taxies is considered to be 350 km per refueling. The earned value of replacing every single taxi in its first five years and every single taxi van in its seven years of operation shall be paid back to the investor(s) of the project at seasonal intervals.

Project Timeline:

The supply of new CNG taxies has been predicted to be accomplished in 3 years (2014-2016). Relatively, the total annual cash flow of repayment to the investor(s) is calculated in table (b).

Project Payments:

The payments are based on operation and monthly trip of new taxies in the fleet. The taxies shall be equipped with AVL devices to control and validate their operational conditions. Total payments are based on 1.1 USD¢ per kilometer of operation (equivalent to subsidize of 57cc gasoline) for every single sedan taxi & 1.55 USD¢ per kilometer of operation (equivalent to subsidize of 78cc gasoline) for every single van taxi.

Table (b)

Year	2014	2015	2016	2017	2018	2019	2020	2021	Total
Maximum annual payment (M USD)	0	26	76	126	126	126	100	55	635

Project Achievements:

The major achievements of implementation of such project, considering benefits of first five years of operating new CNG taxies are potentially as follow;

Maximum Gasoline Fuel volume replaced by CNG: 2745 (million liters)

Maximum carbon emission reduction: 527 (Thousand tons) of CO_2 equivalent