

■Development of Metro systems in Metropolitans of Iran

Project Title:

Rail Transport Development

Brief Description:

The main purpose of the project is the development of rail transportation network caused to improve freight and passenger movement, reducing fuel consumption and environmental pollution.

Implementing this project will increase the amount of freight transport(excluding international transit) with the railway from 21.7 to 75.8 billion ton- kilometers and the passenger transport from 17.4 to 34.2 billion passenger-kilometers in 2013- 2024 period.

Project Timeline and Payment:

The supply and implement of this project had been predicted to be accomplished in 10 years and it could be measured by increasing freight and passenger transport, according to the table.

Relatively, the total annual cash flow of repayment to the investor(s) is calculated in table which extends the total duration of the project to 10 years.

Repayment to the non-governmental investors would be through the RAI, and per each tonne-kilometers added (excluding international transit), compared to the base year, equal to 2.025 US cents. For each passenger-kilometers added compared to the base year it would be equal to 1.013 US cents. The performance of rail transportation (freight and passenger) in 2013, will be considered as the base year.

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Increasing freight (million ton-kilometers)	4.90	9.70	15.30	21.90	28.40	35.80	44.30	54.10	54.10	54.10
Increasing passengers (million passenger-km)	1.20	2.80	4.40	6.30	8.50	11.00	13.80	16.80	16.80	16.80
Maximum repayable from fuel savings (million dollars)	0.0	336.7	354.6	507.5	661.4	836.6	1037.1	1266.0	1266.0	1266.0

Project Achievements:

The major achievements of implementation of such project, considering benefits of first 10 years of implementing this project and increasing rail transport (freight and passenger) is potentially as follow:

Maximum Fuel saved/ substituted energy carriers: 11157.63 million liters

Maximum of carbon emissions reduction:29.95 million tones of carbon dioxide equivalent