CapaCITIES Phase I in Coimbatore - Summary

1) SWM - Vision, Strategy and Roadmap

Vellalore Dumpsite
- Satellite Image

Vellalore Dumpsite Volume Assessment

Plan for Consolidation of the Existing Dump Site at Vellalore

2) Solid Waste Treatment and Processing

a) 1.5 tonne per day waste to bio-methanation plant in Ward 69 implemented under CapaCITIES Phase I

- The plant was established at a cost of CHF 66,512 and processes 0.13% of waste generated in the city
- GHG emissions reduction of 1,505 tCO2e per annum

b) 200 TPD BioCNG Plant in Vellalore Dump Site (Replication by the City)

- 18.2% of total city waste processed to generate 13,000 m^3 of methane per day
- Implementation mode: Design, Build, Finance, Operate and Transfer (DBFOT) - 15 years
- Project Cost: ~INR 450 million (~CHF 5.5 million)
- Finance: Equity, Debt and Viability gap funding
- Private sector leverage: 67% of project cost
- Revenues: Sale of Bio CNG and Carbon Credit
- GHI emissions mitigation potential: 260,000 tCO2e (over 10 years)
- Net Benefits to Coimbatore Corporation: INR 965 million (CHF 11.75 million) over project life as compared to current costs on present value basis

3) Air Quality Monitoring & Dissemination

a) Sensor based Ambient Air Quality Monitoring Systems (AAQMS) installed at 4 locations under CapaCITIES

b) Replication: Sensor based Ambient Air Quality Monitoring Systems (AAQMS) installed by CCMC at 26 locations