

Kinoya Sewerage Treatment Plant GHG Emission Reduction Project, Fiji



CDM Project Description

- **Main objective:** to recover and flare methane generated by the anaerobic decomposition of organic matter in sludge of an existing sewerage treatment plant.
- **The project activity proposes** to move from a potentially **high GHG emission** option of open air venting of methane to **environmentally benign** option of capture and combustion of methane

Project Proponent and Location

- Developed by Water Supply & Sewerage Department (WSD)/Water Authority of Fiji under the Ministry of Works, Transport and Public Utilities, Government of Fiji Islands.
- The project is located at Kinoya, Suva city, Viti Levu Island, Republic of Fiji Islands

Contribution to Sustainable Development

- a **first of its kind** in Fiji Islands, will play a role model function which will have a major impact on development of similar and other potential renewable, environmentally benign projects eligible under CDM for CER revenues
- avoids venting of methane, a GHG with very high GWP, into the atmosphere resulting in **environmental protection of the region** and at the global level as a whole.

Contribution to Sustainable Development

- will address the immediate concerns raised by the local population and communities in terms of **improving the local environmental hygiene** by eliminating obnoxious odours and air pollution in the project vicinity and surroundings. This will benefit the local communities in terms of improved living and working conditions.
- will reduce significant quantity of methane resulting in **increased revenue to the national government from the sale of CERs**. The additional revenue is envisaged to be used for the implementation of urgently needed developmental activities in the country.

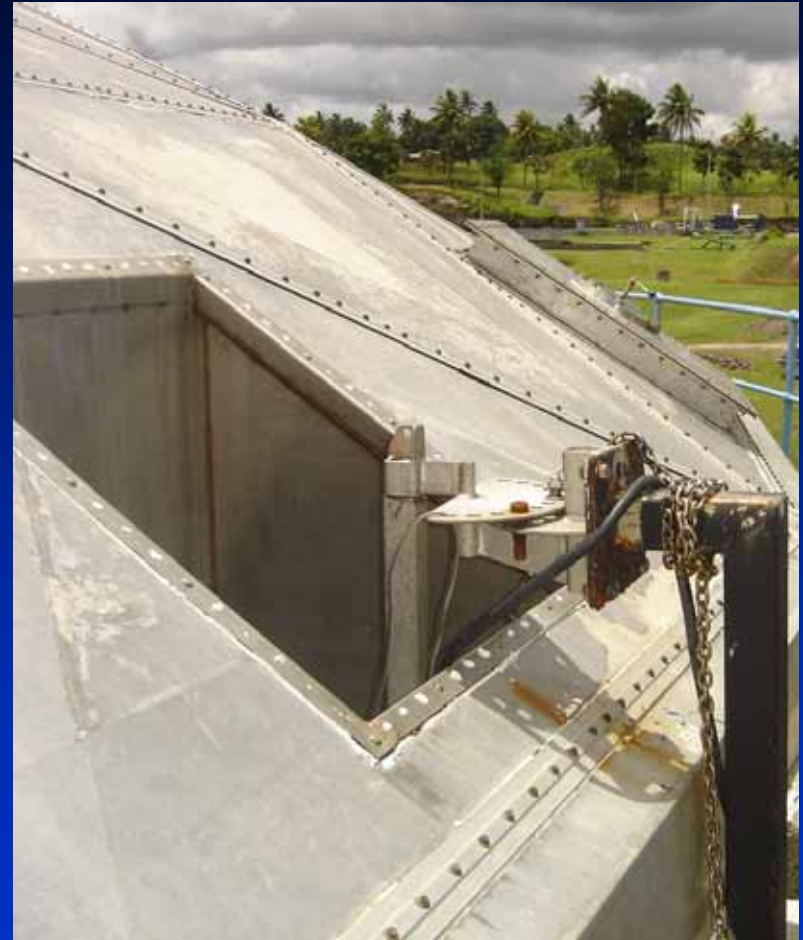
Current scenario

➤ Current Scenario

- The methane generated from decomposition of sludge in the anaerobic digester is currently being vented into the atmosphere.

➤ Proposed CDM Project intervention

- flaring by installing appropriate flaring equipments



CDM Assessment

- CDM sectoral scope
 - Waste handling and disposal - 13
- Scale of project
 - Small Scale
- Source of emission reductions
 - Methane recovery and flaring from anaerobic digestion of wastewater sludge
- Baseline scenario
 - venting the methane in wastewater & sludge into atmosphere.
- Approved baseline methodology
 - Type III.H - Methane recovery in waste water treatment (III.H./Version 16) and
- Estimated annual emission reductions
 - 18,000 tCO₂e

CDM Project Status

- **Project Design Document (PDD)** has been developed by support from Technical Support Facility, ADB
- **Certified Emission Reduction Purchase Agreement (CERPA)** has been signed with Asia-Pacific Carbon Fund
- Project is in final stages of **Validation** by DOE
- Project will be **submitted for registration** with the CDM Executive Board subsequent to Validation
- The envisaged operational date for the project is **during April/May 2011**.

Thank You