



"Doing the Right job, Do it Once, Do it Right"

Kinoya Sewerage Treatment Plant GHG Emission Reduction Project, Fiji

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Project Details

- 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
- Developed pre-2010 by Water Supply & Sewerage Department (WSD) under the Ministry of Works, Transport and Public Utilities, Government of Fiji Islands.
- The project now is under the responsibility of Water Authority of Fiji after it was establishment in 2010.
- The project is located at Kinoya, Suva City, Viti Levu Island, Republic of Fiji Islands



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Project Details

- 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



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CDM details

- 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)
- Estimated annual emission reductions - 22469 tCO₂e (Average)



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- 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.



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- 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.



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CDM Project Status

- Project developed with support from Technical Support Facility, Carbon Market Programme, ADB
- Certified Emission Reduction Purchase Agreement (CERPA) has been signed with Asia-Pacific Carbon Fund
- Project is registered with UNFCCC as of on 3rd May 2011
- The envisaged operational date for the project is during November/December 2011.



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Challenges

- Limited understanding & awareness on CDM rules & procedures initially
- Frequent revisions of methodology resulted in numerous revisions to PDD – Time & effort
- Request for revision of methodology to UNFCCC – accepted – further time delay
- Delay in commissioning of the project



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Merits

- First of its kind in Fiji
- Additional revenue from Carbon Credits
- Has high replication potential within Fiji as well as in the whole of Pacific
- Assisted in building capacities of stakeholders on CDM in Fiji



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Thank You

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