

# CDM Case Study – Kinoya Biogas Project, Fiji

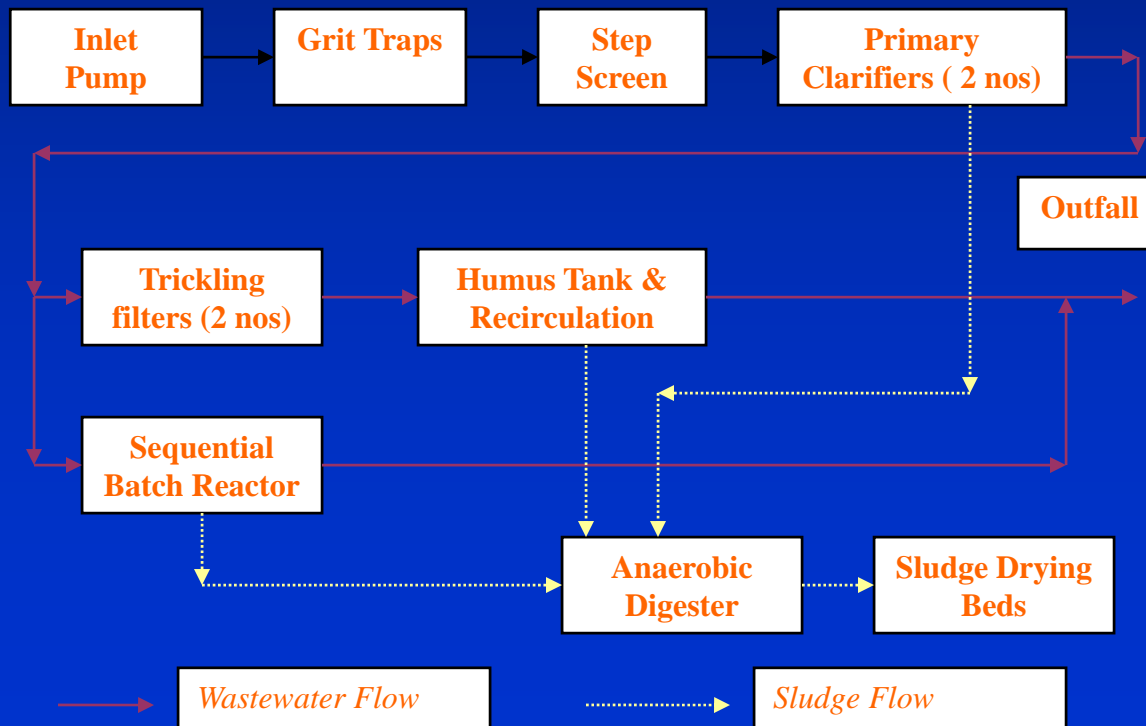
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# The Project

## □ Domestic Sewage Treatment

- Two stage treatment – Primary & Secondary
- Primary Treatment - removal of sediments and other coarse particles
- Secondary Treatment – Biological, COD destruction & anaerobic digestion





# The Project

## □ Current Scenario

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

## □ Proposed CDM Project intervention

- flaring the methane that is being generated by installing appropriate flaring equipment, including flaring pipe, candle, and monitoring meters

# Available Project Data

<b>Parameter</b>	<b>Value</b>	<b>Source</b>
Chemical Oxygen Demand (COD) mg/l of Raw Effluent	630	Average value calculated for 2007, WSD
Chemical Oxygen Demand (COD) mg/l of Treated Effluent	140	Average value calculated for 2007, WSD
Total Quantity of Sludge produced (raw + humus) m <sup>3</sup> /day	180	WSD
Total Quantity of Effluent treated m <sup>3</sup> /day	30000	WSD

# CDM Assessment

- ❑ CDM sectoral scope
  - Waste handling and disposal
- ❑ Scale of project
  - Small Scale
- ❑ Source of emission reductions
  - Destruction of COD in the wastewater
  - 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 10)
- ❑ Estimated annual CERs
  - 30,000 tCO<sub>2</sub>e

# Looking Ahead

- Finalising CDM Due Diligence
- Signing of CERPA
- Development of PDD
- Host Country Approval (DNA, Fiji)
- Validation by DOE
- Registration
- Financing & Implementation
- Monitoring
- Verification & Certification
- Issuance of CERs

**THANK YOU**