**Anaerobic digestion of organic waste**

**Expected project CAPEX :** 14'000’000 €

**Mandating Authority :** Regional Council of Tangier-Tetouan, Al Hoceima

**Project Type :** Waste management

**Summary**

The project aims to treat organic waste in an anaerobic digestion plant to produce electricity, heat and fertilizer for the soil. Depending on the final design of the plant, power generation of about 6 to 7 million kWh is possible.

**Location and population**

Tangier, Morocco

974'000 inh.

**Social and environmental impact**

Reduction in demand for landfill space; reduction of GHGs (about 287,400 tCO2e over a 20-year project horizon); job creation (for the operation of the plant, 25 to 30 skilled workers will be needed).

**Main stakeholders**

Municipality of Tangier, Tanger-Assilah Prefecture, private entrepreneurs, the Regional Environmental Service
Project maturity (IFC / World Bank Categories)
STAGE 1: Concept Development, Site identification
STAGE 2: Pre-Feasibility Studies
STAGE 3: Feasibility Studies
STAGE 4: Permitting / Financing / Contracts
STAGE 5: Engineering / Construction / Commercial Operation

**STAGE 1: Concept Development, Site identification**

**Expected capacity (Input-Output)**

? 

Land identified

Yes

Site access:
- ✔ Adequate road
- ✔ Rail access
- ✔ Port facilities

Technology: anaerobic digestion of organic waste

Waste stream data

300,000 t/a

**STAGE 2: Pre-Feasibility Studies**

Pre-feasibility study: No

**STAGE 3: Feasibility Studies**

Feasibility study: ?

**STAGE 4: Permitting / Financing / Contracts**

Land concession signed

?

Building permits signed

?

Environmental impact study

?

Identified sources of fundings

?

**STAGE 5: Engineering / Construction / Commercial Operation**

Engineering, Procurement and Construction Contractor

?

Operation and Maintenance Contractor

?

Comments

Revenues from the sale of electricity will be about 370,000 per year. According to the final quality and acceptance by end users, the soil fertilizer product can be sold for 5 to 10 euros per tonne.