**Waste to Electricity Project**

**Expected project CAPEX:** 21'039'437 €

**Mandating Authority:** Arandas Municipality

**Project Type:** Waste to Electricity

**Summary**

This project aims to build, own and operate a Waste to Energy facility. A 20-year concession has been granted by the Municipal government to ensure the supply of Municipal Solid Waste (MSW) and waste landfilled in historical dump-site.

**Location and population**

Arandas, Jalisco, Mexico
77’116 inh.

**Social and environmental impact**

Reduction of GHGs (37,368 tons of CO2 emissions reduced annually); sustainable programs for the local community; elimination of waste management expenses and generation of revenue for the Municipality (expected savings of €6.12 M in waste management and a payment of €4.24 M for the MSW disposal during the 20-year MSW concession).

**Main stakeholders**

The Developer company Enersaving de Mexico, local municipality
**Stage 1: Concept Development, Site Identification**

**Expected Capacity** *(Input - Output)*

- Input: 120 Metric Tons Per Day (TPD) of Municipal Solid Waste (MSW)
- MW Gross Generation: 4.25 MW
- MW Self-consumption: 0.55 MW
- MW Output: 3.70 MW capacity to grid

- Estimated Plant Factor: 96%

**Land Identified**: Yes

**Site Access**:
- ✔️ Adequate Road
- ❌ Rail Access
- ❌ Port Facilities

**Technology**:
Gasification, energy recovery, and emissions control equipment for all types of solid wastes. Manufacturer: Consutech Systems LLC

**Waste Stream Data**
Input: 120 Metric Tons Per Day (TPD) of Municipal Solid Waste (MSW)
- 70 TPD of which will be fresh day-to-day MSW, 38 TPD landfill excavation, and 12 TPD tires

**Stage 2: Pre-Feasibility Studies**

**Pre-feasibility Study**: Yes

**Stage 3: Feasibility Studies**

**Feasibility Study**: Yes

**Stage 4: Permitting / Financing / Contracts**

- Land Concession Signed: Yes
- Building Permits Signed: No
- Environmental Impact Study: Yes

**Identified Sources of Fundings**
SPV has already been secured and executed €1,342,942.836 for the project. Equity Road Show in progress.

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

**Engineering, Procurement and Construction Contractor**
Tracsa Energía S.A. de C.V.

**Operation and Maintenance Contractor**
Tracsa Energía S.A. de C.V.

**Comments**
Technology: Consutech Systems LLC is a specialized supplier with over 45 years of experience. Waste to Energy Gasification technology: Profitable technology for the treatment of =>120 tons of MSW per day. Enersaving, the developer of this project, has a technical partnership representation agreement with Consutech for Mexico. EPC: Tracsa Energía is the leading distributor of Caterpillar in Mexico with proven experience in the development, construction and operation of energy facilities.