Waste Management Project

Expected project CAPEX: 2’300’000 €

Mandating Authority: The Municipal Federation of the Casa of Zgharta

Project Type: Composting

Summary
This project deals with the integrated management of organic farming waste (dairy cows and poultry manure, tree clippings, etc.) to turn it into compost.

Location and population
The Casa of Zgharta, Lebanon
90’000 inh.

Social and environmental impact
Reduced water and air pollution; Improved soil profile and soil fertility; Reduced reliance on chemical fertilizers; Better opportunities for agro-tourism; Improved public health through organic farming; Improved public finances and shifting of expenditures to social projects.

Main stakeholders
Municipal Federation of the Casa of Zgharta; Farmers and Citizens of the member towns and villages.

Mandate Letter
The Federation of Zgharta Caza Municipalities is committed to taking concrete action and to be an active partner in working to deliver the climate objectives committed to by the 175 signatory nations of the Paris Agreement. Low carbon, climate resilient and sustainable development is amongst the very highest of our priorities. For these reasons, we hereby adhere to the R20 Charter and we confirm that we share the values and objectives that this document describes. We welcome R20’s initiative to work alongside government, industry and investors in accelerating the emergence of low carbon climate resilient infrastructure projects. We hereby mandate R20 to explore opportunities for the development of such projects within our city/region, specifically and not confined to the following:

- Project 1: LED Street Lighting Replacement of HPS with LED lamps.
- Project 2: Waste Management Composting of Farm Refuse.

We confirm that these projects, and any projects that we may subsequently identify, is reference to this mandate, are part of our sustainability strategy and contribute to our intended nationally determined contribution (INDC). In support of the mandate conveyed by this letter, we hereby commit to work as an active partner alongside R20 and its partners in the design, financing and implementation of these projects.

Yours sincerely,

Federation of Zgharta Caza Municipalities.
President
Mr Zeenny Mikhail Khedr.

R20 Secretariat
48, Chemin du Grand Montfleury
1255, Venoix, Geneva.
Switzerland
**Project maturity (IFC / World Bank Categories)**

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

**Expected capacity (Input-Output)**
21,000 tons high C, 22,500 tons high N

Land identified
Tbd

Site access:
- ✓ Adequate road
- No Rail access
- No Port facilities

Technology:

Waste stream data
Yes

**STAGE 2: Pre-Feasibility Studies**

Pre-feasibility study: Yes

**STAGE 3: Feasibility Studies**

Feasibility study: No

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

- Land concession signed
  - No

- Building permits signed
  - No

- Environmental impact study
  - No

- Identified sources of fundings
  - Tbd

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

- Engineering, Procurement and Construction Contractor
  - Tbd

- Operation and Maintenance Contractor
  - Tbd

**Comments**

This project deals with ORGANIC FARM REFUSE. It does not include Municipal Solid Waste, but may accommodate municipal green refuse if properly sorted at the source. Casa of Zgharta is actively pursuing a plan for an integrated MSW management scheme to be funded under a separate initiative.