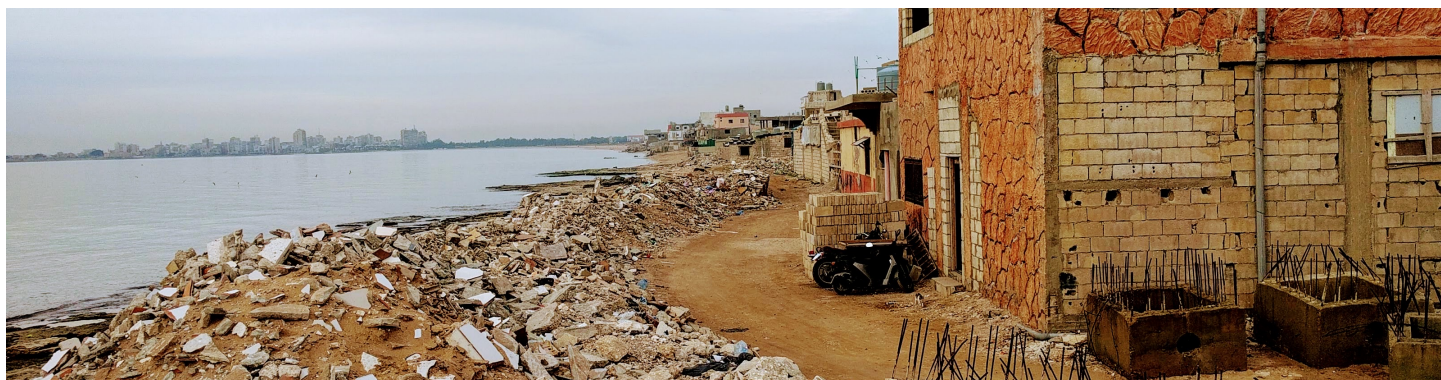


UPM Consulting Project Factsheet



Feasibility Study and Capacity Building – Tyre-Rashidieh Integrated Environmental Sanitation Project

2018-2020

Country: Lebanon

Client:
Bill & Melinda Gates Foundation

Beneficiaries:
UNRWA, Tyre Municipality, Lebanon Government, population of Rashidieh camp and Tyre municipality

Key Partner:
Lebanon Appropriate Technology Association (LATA)

Expertise:
Integrated solid and liquid waste management, sanitation, recovery, waste-to-value, Environmental health, business model and value-chain identification, institutional capacity building, innovation, participatory approach

Service Type:
Technical assistance, Feasibility Study, Design, Capacity Building

SUSTAINABLE DEVELOPMENT GOALS



Project Background

The project follows the "Feasibility Assessment of Fecal Sludge Treatment in the Refugee Context" for the selected project site in Rashidieh Refugee Camp and Tyre Municipality in Lebanon. The project would assist UNRWA and the Lebanese government in achieving its objectives by proposing alternative solutions that are beneficial to both the Lebanese host communities and the refugee camps.

Nine topics were identified during the initial assessment and by local stakeholders that will require an initial feasibility study before implementation. These include: (1) RAMSAR protected area topics, (2) coastal protection, (3) appropriate and innovative wastewater collection sewer in a densely populated area with flat topography, (4) final wastewater treatment in wetlands, (5) innovative decentralized wastewater pre-treatment in the settlement area, (6) improved toilet design, (7) sludge recovery and treatment, combining other organic waste in the treatment process, (8) protection of the drinking water source and (9) waste recovery options analysis. In addition, the need for specific capacity building on the topics will be identified with local stakeholders, as appropriate, prior to implementation.

Scope of Services

The technical support included:

- Definition of the feasibility ToRs for the 9 sub-topics
- Detailed design of interventions in the 9 topics
- Feasibility and implementation study on all the above topics
- Development of project concept notes for funding support on 1) Integrated Coastal Protection, 2) Innovative Approaches to Sanitation Systems, 3) Environment House demonstration facility, and 4) Innovative approaches to Household Waste -, Commercial Waste -, Construction and Demolition Waste -, and E-Waste - Management, Waste-to-Energy, and Entrepreneurship
- Training/capacity building sessions for local stakeholders and implementing agencies on the concept and management of innovative waste recovery (waste-to-value) technology solutions and approaches.



More information at the following link:

CONTACT

Ms. Marie Reysset
Consulting Project Director
mreysset@upm-cdm.eu

Mr. Heinz-Peter Mang
Technical Director
hpmang@upm-cdm.eu