



CUBEX
Waste Solutions

Cubex is a specialized waste management consultancy firm, concentrating on resource-oriented biowaste management practices.



🔄 Promoting the **circular economy** through sustainable waste valorization practices throughout the extended waste value chain.

♻️ Cubex delivers waste valorization operations by focusing on environmental responsibility, practicality with **economic viability**.

Driven by environmental stewardship, we deliver actionable recommendations by:





- Prioritizing responsible resource management and approach all challenges with **pragmatism**, agility and adaptive innovation
- **Co-designing** tailored solutions to our clients' needs while leveraging the best environmental practices .



📈 Imagining a future where sustainable waste management fosters economic growth, environmental preservation, and community well-being.



Providing best-in-class services to tackle environmental challenges to municipalities and government entities, agricultural enterprises, NGOs, research institutions, industrial companies, urban planners, and international development agencies.

We operate worldwide with experience in    

- ❁ **Efficient teamwork**, with an industry standard project management structure
- ❁ **Commitment to excellence**
- ❁ **Engineering software** are used in designing waste treatment facilities.
- ❁ **Planning of integrated solid waste management strategies**, including designing and positioning of waste transfer facilities using our core tools:
 - ❁ Optimum Solution Generator
 - ❁ Optimum Level of Decentralization

OUR SERVICES

Waste Advisory Services



Offering a wide range of services for the repurposing of organic waste into valuable resources and covering the entire waste value chain with various valorization and treatment methods.

Municipal Solid Waste Management (MSWM)



Offering a wide range of services focusing on establishing effective waste diversion and valorization operations for municipalities.

Fecal Sludge Management (FSM)



Focusing on non-sewered sanitation solutions and development of economically viable solutions in the developing context.

Biomass Valorisation

Leveraging technologies such as wood chipping and pyrolysis, we offer tailored biomass valorization options for tree pruning into mulch, briquettes pellets charcoal and biochar. Client support services encompass designing and implementing biomass processing plants financial modeling optimizing existing facilities, equipment selection, and technical support.



Capacity Building

Provision of training on waste management practices to equip beneficiaries with knowledge, skills and tools needed to improve their environmental, social and economic settings. Standard modules are available and tailored curriculums can be developed accommodating a range of audiences from community members, students, social organizations, municipalities, service providers and other general public. Content can be delivered in Arabic, English and French.

Awareness Raising

Our awareness raising programs encompass solid waste and wastewater management, with a focus on the importance of proper waste management practices, resources conservation, and the benefits of material recovery and valorization. Standard modules are available and tailored curriculums can be developed accommodating a range of audiences from community members, students, social organizations, municipalities, service providers and other general public. Content can be delivered in Arabic, English and French.





DAWERR - Lebanon

DAWERR Project, funded by USAID, aimed to reduce waste generation in Lebanon through composting and recycling value chains.

Our objectives included assisting in municipality selection, assessing solid waste management infrastructure, designing and implementing tailored solutions supporting community engagement, providing capacity-building training, and monitoring operations for quality control.

As subcontractors,
we contributed by

- conducting studies
- designing and implementing tailored solutions
- supporting community engagement
- source separation activities
- providing capacity-building training
- monitoring operations for quality control

"Several Lebanese municipalities have implemented waste source separation and organic waste treatment in addition to receiving support and training to improve their day to day waste management logistics and finances."



Fecal Sludge Management plan in Antoura - Lebanon

The municipal team of Antoura wished to implement a local solution that, without interfering with the regional collective project, would address the current lack of sanitation and improve the quality of surface and groundwater.

The scope of work consisted of the development of a non-collective sanitation system and phasing of interventions over the duration of 5 years, taking into consideration community engagement activities, strengthening of the institutional and private sector, and reuse options for collected sludge.

The study included field surveys for the prioritisation of housing units and the mapping of household systems solution providers.

"With significant expertise in fecal sludge management the team members planned and executed the activities with high professionalism ensuring the achievement of all agreed upon deliverables on time with high commitment to all agreed on terms and conditions."



Labib Akiki
Antoura Mayor



SWM Strategic Planning - Saudi Arabia

Contracted By LASCO JV Six Sigma to conduct a solid waste management infrastructure strategic planning for four cities in Saudi Arabia (Arar, Tabuk, Tayma, and Najran) to address waste management challenges.

A comprehensive field assessment was conducted for the current state of waste management in the 4 cities, developed a SWOT analysis, visions and scenarios for future waste management infrastructures, and prepared local planning strategies

The strategic planning process led to the identification of problems in the waste value chain in each city, proposing tailored solutions addressing their specific waste management challenges and laying the groundwork for sustainable waste management practices.

"We are confident that the recommendations provided by the team will guide us towards sustainable waste management practices in these cities"



Dr. Lara Saad
Projects director

Amman International Airport - Jordan

We conducted a waste quantification and characterization study and designed a waste strategic solution for the organic waste fraction at Amman International Airport to address waste management needs.

The objectives were to quantify and characterize waste, particularly the organic fraction, and design a strategic solution for effective waste management.

Based on the findings, we designed a strategic solution tailored to the airport's requirements and operational constraints.

The study enabled Amman International Airport to have data on their generated waste so they can take informed decisions related to treatment and management of each type of waste.



VNG International- Lebanon

We partnered with VNG International to provide expertise in composting for municipal solid waste management projects in Manara and Aitanit, West Bekaa, aiming to improve waste management practices.

We provided expertise in composting, delivering timely field visit reports . Town Hall meetings were done to raise awareness about composting and proper waste management

Challenges included the lack of treatment infrastructure and poor management of waste.

Despite of the lack of treatment infrastructure and previous poor management practices, the technical support and capacity building provided valuable insights and guidance for effective composting methods



"Through their impeccable technical skills, expertise, hard work and dedication, They were an invaluable asset for the project and the local team in moving forward with our waste management projects."



Rami Assaf

VNG - International
project coordinator

Feasibility study for a composting facility - Algeria

We conducted an assessment of organic waste management in Bougara and Boufarik wholesale vegetable markets in Blida province to address waste management challenges:

- long distances
- lack of awareness in compost use
- lack of awareness in sound waste management practices
- the need for engaging youth in public sector employment.

We designed a composting facility that proposed at least 10 new jobs. It can treat organic waste coming from Bougara and Boufarik markets. Two proposed financial models were presented for operating the facility. Additionally, we assessed the potential market for compost and identified best practices for farmers.

The study's results included a high-level design for an 18 tons per day of organic waste facility, a quantification and characterization study on both markets, and two financial models were proposed to have a feasible operation (Led by either Private or Public sector).

"The company carried out its assignment with diligence and commitment. The deliverables were delivered in full and on time." *Translated from French*



Gaëlle Depenbrock
Project manager PEM consult



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