

Water & Wastewater Treatment

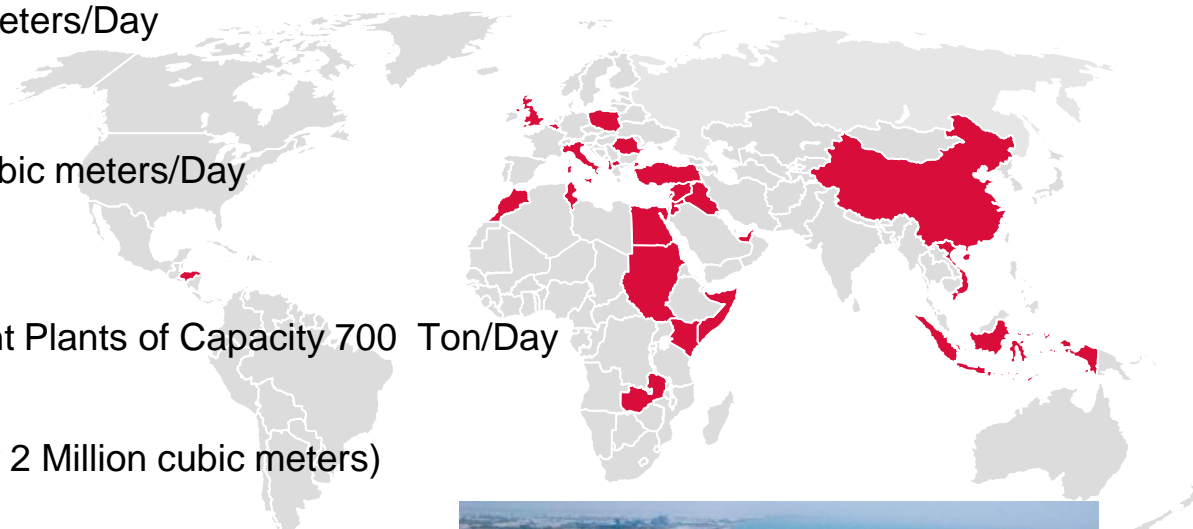




EMIT GROUP is an Italian Company established in 1973 and since then has successfully completed and operated more than 400 turn-key projects in more than 30 Countries worldwide.

EMIT Group designs and builds water and wastewater purification and treatment plants on a turn-key basis including collections networks, solid waste treatment and soil remediation systems.

- Water Treatment Capacity 720,000 cubic meters/Day
(Population Equivalent 1 million)
- Wastewater Treatment Capacity 900,000 cubic meters/Day
(Population Equivalent 4 million)
- Municipal & Industrial Solid Waste Treatment Plants of Capacity 700 Ton/Day
- Polluted Soil Remediation Landfills Capacity 2 Million cubic meters)



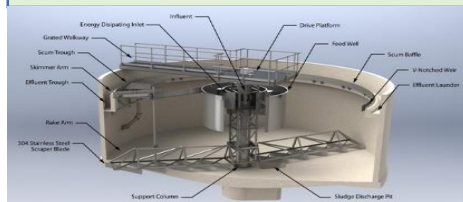
Qualifications

Category	Classification	Description
OS 14	V	Disposal and recovery solid waste plants
OG 12	IV	Sanitary landfills and polluted soil remediation
OS 22	VIII	Water and wastewater treatment plants
OG 9	V	Power Plants
OG 6	VII	Pipelines



Competencies

DESIGN



**Process, Electrical,
Mechanical &
Instrumentation**

**Water & Waste Water
Collection & Delivery
Systems**

Control & Automation

Solid Waste Recovery

**Efficient Use of
Resources**

**Plant's Footprint
Reduction**

CONSTRUCTION



**Water & Waste Water
Treatment Plants**

Distribution Networks

**Sludge and Organic Waste
Treatment & Recovery**

**Industrial & Refineries Water
Treatment Plants**

Pumping & Lift Stations

OPERATION & MAINTENANCE



**Asset & Resource
Management**

**Governance &
Regulatory Strategies**

**Intelligent Services for
Limiting Operational
Costs**

**Risk Management
Solutions**

**Public Awareness
Campaigns**

Selected Projects

Water & Wastewater Networks and
Treatment Plants

Construction of Küçükkumla, Akçalar and Nilüfer Wastewater Treatment Plants (Bursa)



LOCATION

Bursa, Turkey

CLIENT:

Bursa Water and Sewerage Administration (BUSKİ)

STATUS

Completed

TREATMENT CAPACITY: 35,461 m³/day

- Küçükkumla: 5,200 m³/day (winter) & 8,200 m³/day (summer);
- Akçalar: 4,023 m³/day in winter & 5,761 m³/day (summer);
- Nilüfer: 22,000 m³/day(winter) & 21,500 m³/day (summer).



DESCRIPTION:

The Project's scope of works consists of the Construction of 3 Waste Water Treatment Plants in 640 days plus 365 days for Operation & Maintenance in addition to all related pipe works.

Mersin Waste Water Treatment Plant Construction and Operation



LOCATION:

Mersin, Turkey

CLIENT:

General Directorate of Mersin (MESKI)

STATUS

Completed

TREATMENT CAPACITY:

190,000 m³/day

PROCESS:

- Raw Water Pumping Stations
- Pretreatments & Primary Sedimentation
- NBR Activated Sludge System
- Final Sedimentation
- Sludge Thickening; Anaerobic Digestion
- Mechanical Sludge Dewatering
- Sludge Lime Stabilization
- Co-generated Heat And Power Plants
- Extensive Pipeworks Networking System of Diam. 100-700 mm



Melen Water Treatment Plant



LOCATION:

Melen, Turkey

CLIENT:

Ministry of Energy and Natural Resources
General Directorate of State Hydraulic Works (DSI)

STATUS

Completed

TREATMENT CAPACITY:

720,000 m³/day

PROCESS:

- Aeration
- Prechlorination
- Flocculation
- Clarification
- Filtration
- Postchlorination
- Sludge thickening and dewatering



Bursa East & Bursa West Wastewater Treatment Plants



LOCATION:
Bursa, Turkey

CLIENT:
BUSKI Bursa Water and Sewerage Administration

STATUS
Completed

TREATMENT CAPACITY:
516,000 m³/day



PROCESS:

- Pre-treatments
- Biological phosphorus removal
- BOD removal
- Biological denitrification
- Biological nitrification
- Final sedimentation
- Sludge dewatering and stabilization

Izmit's Five Waste Water Treatment Plants and Two Sea Outfalls



LOCATION:
Izmit, Turkey

CLIENT:
İller Bankası

STATUS
Completed

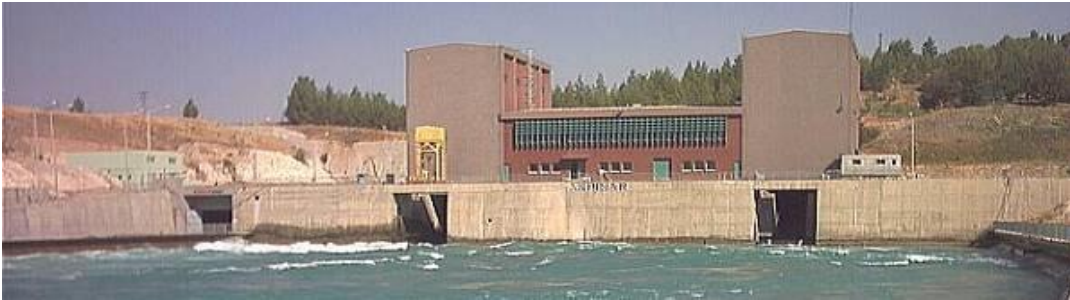
TREATMENT CAPACITY: 317,000 m³/d
93,000 + 91,000 + 81,000 + 29,000 +
23,000 m³/day

PROCESS:

- Pre-treatments
- Biological denitrification
- Biological nitrification
- Final sedimentation
- Sludge thickening,
- Sludge dewatering
- Waste Water Distribution Network



Sanliurfa Water Treatment Plant and Pumping Station



LOCATION

Sanliurfa, **Turkey**

CLIENT:

Ministry of Energy and Natural Resources General Directorate of State (DSI)

STATUS

Completed

TREATMENT CAPACITY:

270,000 m³/day

PROCESS:

- Raw Water Pumping Station
- Aeration
- Flocculation – Clarification
- Rapid Gravity Filtration
- Chlorination
- Chemical Dosing
- Treated Water Pumping Station
- Sludge Thickening And Dewatering



Rehabilitation of Wastewater Treatment Plants in Vaslui, Barlad and Husi



LOCATION:

Vaslui, Romania

CLIENT:

SC Aquavas SA Vaslui

STATUS

Completed

TREATMENT CAPACITY: 19,000 m³/day

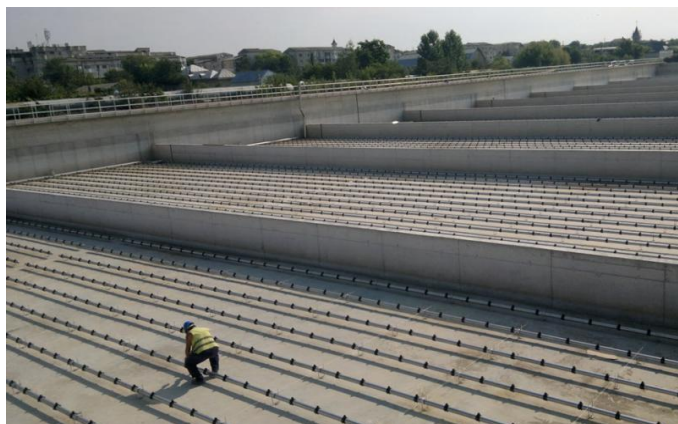
- Vaslui: 19,000 m³/d
- Barlad: 20,500 m³/d
- Husi: 5,000 m³/d



DESCRIPTION:

The project consists of the Design and execution works related to the rehabilitation of wastewater treatment plant in Vaslui, Barlad and Husi, including the design, supply of electromechanical equipment, SCADA system, erection, training and supervision during DNP.

Upgrading of existing wastewater treatment plant in Iasi Province



LOCATION:
Iasi, Romania

CLIENT:
S.C. Apavital S.A. Iasi

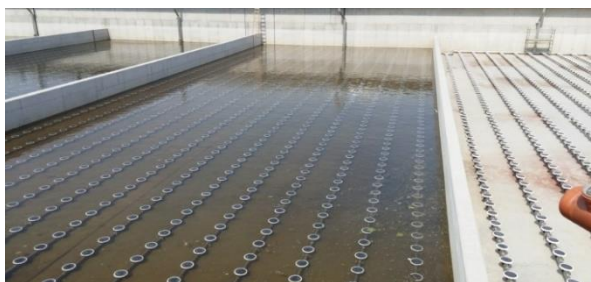
STATUS
Completed

TREATMENT CAPACITY:
191,000 m³/day

DESCRIPTION:

The project consists of the Upgrade of the existing wastewater treatment plant in order to reach a capacity of 191 m³/day.

The scope of work includes: electro-mechanical engineering, equipment supply, supervision of erection and start up.



Amman Water Supply Project (Stages 1 & 2)



LOCATION:

Amman, **Jordan**

CLIENT:

Ministry of Water and Irrigation

STATUS

Completed

DESCRIPTION:

- Primary Pipeline Distribution With 14 Km of Ductile Iron Diam. 800mm & Pumping Station Construction.
- Secondary & Tertiary Distribution Pipelines of a total of 115 Km Of Ductile Iron of Diam. 100-700 mm
- Pumping Station Rehabilitation & Installation Of Chlorination Equipment
- Two Reservoirs Construction of a Combined Capacity of 14,500 M³
- Associated House Connections.



Craiova Waste Water Treatment Plant



LOCATION:

Craiova, Romania

CLIENT:

Compania De Apa Oltenia

STATUS

Completed

TREATMENT CAPACITY:

129,600 m³/d

PROCESS:

- Pretreatments
- Primary sedimentation
- NBR activated sludge system
- Final sedimentation
- Sludge thickening
- Sludge anaerobic digestion
- Mechanical sludge dewatering
- Co-generation system
- Ductile Iron Diam. 800mm & Pumping Station Construction



Suez Thermal Power Plant



LOCATION:
Suez, Egypt

CLIENT:
Metito Water Treatment

STATUS
On-Going

TREATMENT CAPACITY:
43,200 m³/day

DESCRIPTION:

The project consists of the design, engineering, supply, supervision of installation commissioning and start-up, guarantee and warranty of the condensate polisher system for Suez Thermal Power Plant 1X650 MW Gas/Oil Fired Unit.



Al Shabab 1,000 MW Gas Turbine Power Plant & Water Treatment Plant



LOCATION:

Al Shabab, Egypt

CLIENT:

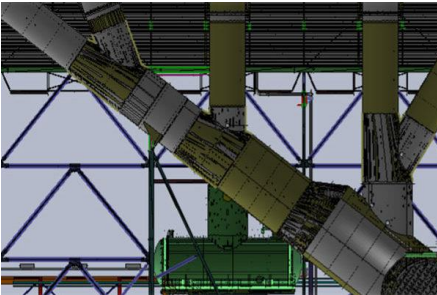
KHARAFI NATIONAL Co.

STATUS

Completed

PROCESS:

- Pre-treatments with ultrafiltration
- Reverse osmosis
- Emineralization



Poti Wastewater Treatment Plant



LOCATION

Poti, Georgia

CLIENT:

United Water Supply Company of Georgia LLC

STATUS

On-Going

TREATMENT CAPACITY:

19,000 m³/day



DESCRIPTION:

The works include design, construction and commissioning of a wastewater treatment plant for City of Poti. The works include pumping stations, screens, aeration & sedimentation tanks, operation and administrative buildings, sludge thickener.

Zugdidi Wastewater Treatment Plant



LOCATION

Zugdidi, Georgia

CLIENT:

United Water Supply Company of Georgia LLC

STATUS

On-Going

TREATMENT CAPACITY:

22,000 m³/day

DESCRIPTION:

- Procurement of Civil, Mechanical and Electrical Works for STP
- Demolition and removal of existing obsolete WWTP structures and equipment.
- Design, construction and commissioning of a new wastewater treatment plant



Reconstruction of Ternopil Wastewater Treatment Plant



LOCATION

Ternopil, **Ukraine**

CLIENT:

Utility Company "Ternopilvodokanal"

STATUS

On-Going

TREATMENT CAPACITY:

60,000 m³/day

DESCRIPTION:

Reconstruction of one of the two existing lines of the wastewater treatment plant in the City Ternopil.

The Plant consists of a pre-treatment section, a biological treatment with nitrogen and phosphorus removal, final sedimentation, dis-infection and sludge treatment.



Rishikesh Sewage Treatment Plant and Pumping Stations



LOCATION

Rishikesh, India

CLIENT:

Uttarakhand Peyjal Nigam (Ganga)

STATUS

On-Going

TREATMENT CAPACITY:

26,000 m³/day

DESCRIPTION:

Survey, redesign build new/replace **outfall 15 km**, construction of new sewage and upgrade of pumping stations.

In addition, Design Build Operate and Transfer of Sewage Treatment Plant of 26 Mld capacity including 15 Years O&M at Lakkar Ghat, Rishikesh.



Rehabilitation of 3 wastewater treatment plants in Iasi province (Iasi 2)



LOCATION:
Iasi, Romania

CLIENT:
S.C. Apavital S.A. Iasi

STATUS
Completed

TREATMENT CAPACITY:
14,470 m³/day

DESCRIPTION:
The project consists of the Rehabilitation of No. 3 wastewater treatment plants.

Electromechanical engineering, equipment supply, supervision of erection and start up.



Isalnita's Wastewater Treatment Plant



LOCATION:
Isalnita, Romania

CLIENT:
APA OLTENIA

STATUS
On-Going

TREATMENT CAPACITY:
86,400 m³/day

DESCRIPTION:

The project consists of the construction of a Water treatment plant including the design, supply and erection of extensive electromechanical works, start up, commissioning and assistance during DNP.

Primary and Secondary Pipeline Distribution System.



RASTU NOU & BECHET Wastewater Treatment Plants and Collectors



LOCATION:

Rastu Nou & Bechet, Romania

CLIENT:

APA OLTENIA

STATUS

Completed

TREATMENT CAPACITY:

7,600 m³/day

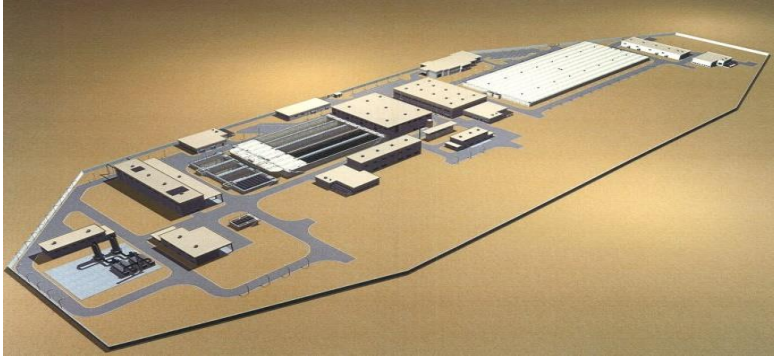


DESCRIPTION:

The project consists of the construction of 2 Water treatment plants and Collector including the design, supply and erection of electromechanical works, start up, commissioning and assistance during DNP.

Ductile Iron Primary Distribution Pipeline Network.

Saadiyat Island STP2 Wastewater Treatment Plant



LOCATION:

Abu Dhabi, **UAE**

CLIENT:

Kharafi National Co. (L.L.C.)

TREATMENT CAPACITY: 98,000 m³/day

- 20,000 (I Phase) m³/day

- 78,000 (Final prevision) m³/day

STATUS

Completed

PROCESS:

- Pre-treatment
- BOD and nitrate removal
- MBR system
- Sludge dewatering and stabilization
- Water reuse
- Odour control system



Ghadir Leachate Treatment Plant



LOCATION:
Beirut, Lebanon

CLIENT:
Council for Development and Reconstruction

STATUS:
Completed

TREATMENT CAPACITY:
120 m³/day

Description:
The scope of services include the provision of Engineering (Design), Procurement and Supply, Erection and Installation, Testing and Commissioning services for the Leachate Treatment Plant at Ghadir Sanitary Landfill, as well as remedy of any defects during the Defects Liability Period.



Biotunnel Composting Facility - Coral



LOCATION:
Beirut, **Lebanon**

CLIENT:
Council for Development and Reconstruction

STATUS
Completed

DESCRIPTION:
The Project is a design, build and commission of 38 fully Automated Aerobic Composting Biotunnels with a total process duration of 24 days with a capacity of **750 tons/day** (serving a population of around 1,400,000).

The scope includes consists of all the Civil, electro-mechanical and all related works.

A turn-key Project with a duration of 12 months.



Selected Projects

Selected Projects

Project Name	Location	Client	Status
Korca Water Supply and Sewerage	Albania	UKKO – Ujesjelles Kanalizime Korce	Completed
Lokeren Civil and Industrial Wastewater Treatment Plant	Belgium	AQUAFIN	Completed
Wastewater Treatment Plant & Pumping Station for Gongbei	China	GUANGDONG MACHINERY IMPORT & EXPORT COMPANY LTD	Completed
Water Supply Project for Dafeng	China	China National Instruments Import & Export Istripex	Completed
Power Station - Water and Wastewater Treatment Plant	Egypt	E.E.A. Egyptian Electricity Authority	Completed
Power Station - Water and Wastewater Treatment Plant (2)	Egypt	E.E.A. Egyptian Electricity Authority	Completed
Electrochloration Plant	Egypt	EDF – Électricité de France	Completed
Cairo North Power Station - Water and Wastewater Treatment Plant	Egypt	Cairo Electricity Production Co.	Completed
EGYPT - Damietta Methanol production -Water Treatment Plant	Egypt	Techint spa	Completed
EGYPT - Al Shabab 1000 MW Gas Turbine Power Plant - Water Treatment Plant	Egypt	Kharafi National / East Delta Electricity Production Company	Completed
EGYPT - Damietta 500 MW Gas Turbine Power Plant - Water Treatment Plant	Egypt	Kharafi National / East Delta Electricity Production Company	Completed
Water Demineralization Plant Project, Condensate Polisher Plant - Abu Qir	Egypt	Metito Water Treatment (Employer: Abu Qir Fertilizers & Chemical Industries)	Completed

Selected Projects

Project Name	Location	Client	Status
Design, Engineering, Supply, Supervision of Installation Commissioning and Start-up, Guarantee and Warantee of the Condensate Polisher System for Suez Thermal Power Plant 1X650 MW Gas/Oil Fired Unit	Egypt	Metito Water Treatment (Employer: E.E.A. Egyptian Electricity Authority)	Works Completed - DNP Period
Design, Engineering, Procurement, Construction, Installation, Training and Field Testing of Condensate/Feedwater Chemical Injection System in Assiut	Egypt	ORASCOM Construction	Works Completed - DNP Period
Design, Engineering, Procurement, Construction, Installation, Training and Field Testing of Condensate/Feedwater Chemical Injection System in West Damietta	Egypt	ORASCOM Construction	Works Completed - DNP Period
New Capital Power Plant - Supply of Chemical Laboratory Equipment and Furniture	Egypt	ORASCOM Construction	Works Completed - DNP Period
Burullus Power Plant - Supply of Chemical Laboratory Equipment and Furniture	Egypt	ORASCOM Construction	Works Completed - DNP Period
Design and Construction of a Water/Waterwater Treatment Plant for Burullus Combined cycle Power Plant with total Capacity of 4800 MW	Egypt	ORASCOM Construction	Ongoing
Beni Suef - Portable demineralization water treatment plant	Egypt	Iskra Emeco (Slovenia)	Works Completed - DNP Period
Supply of a Portable water treatment plant for Beni Suef 4800MW Combined Cycle Power Plant - Supply of Unloading Pumps Skids	Egypt	ComCavi S.p.A.	Works Completed - DNP Period
Supply of a "Potable Water Skid" for Beni Suef Project	Egypt	ComCavi S.p.A. Multimedia	Ongoing
Burullus Power Plant - Supply of Chemical Laboratory Equipment and Furniture - Contract no. 2	Egypt	Imagro Construction	Ongoing
Beltag New Wastewater Treatment Plant for Qotour3 (G-ST-P2-01)	Egypt	Gharbia Water & Wastewater Company, represented by the PIU	Ongoing

Selected Projects

Project Name	Location	Client	Status
Procurement of Civil, Mechanical and Electrical Works for STP Construction in Zugdidi	Georgia	United Water Supply Company of Georgia LLC	Ongoing
Procurement of Civil, Mechanical and Electrical Works for Poti STP Construction (under the Urban Services Improvement Investment Program – Project 4)	Georgia	United Water Supply Company of Georgia LLC	Ongoing
Design, build, operate and transfer STP, New/Replace Outfall/Interceptor sewer Line Pumping Stations, all appurtenant structures and allied works in Rishikesh	India	Uttarakhand Peyjal Nigam - Construction & Maintenance Unit (Ganga)	Ongoing
Banjarmasin Water Treatment Plant	Indonesia	Ministry of Public Works	Completed
Turin Wastewater Treatment Plant	Italy	Azienda Po Sangone	Completed
Construction of a Wastewater Treatment Plant in Rome	Italy	ACEA Azienda Comunale, Energia e Ambiente	Completed
Electrostatic Precipitators for Rossano, Calabro, Italy	Italy	ENELPOWER MILANO	Completed
Albonese Industrial Solid Waste Recycling Plant with RDF Production	Italy	ECOTRAS	Completed
Melilli Industrial Waste and Sludge Landfill	Italy	CISMA Srl	Completed

Selected Projects

Project Name	Location	Client	Status
Polluted Soil Remediation for Sieroterapico, Milan	Italy	Fallimento n. 58781/94 Istituto Sieroterapico	Completed
Solid Waste Recycling Plant with Compost and RDF Production	Italy	Comune di Brindisi	Completed
Zero discharge water treatment system	Italy	Ergosud spa	Completed
Ultrafiltration MBR system for ACSDOBFAR S.p.A.	Italy	ACS Dobfar S.p.A.	Ongoing
Adjustment and upgrading of the purification plant of Acque dei Corsari (PALERMO - ITALY)	Italy	Commissario Straordinario Unico per il coordinamento e la realizzazione degli interventi di collettamento, fognatura e depurazione delle acque reflue urbane	Ongoing
Restructuring & Upgrading of Wastewater Facilities & Effluent Reuse	Jordan	Ministry of Water and Irrigation	Completed
Amman Water Supply Project Stage 1 & 2	Jordan	Ministry of Water and Irrigation	Completed
Kiambere Water Treatment Plant & Pumping Station	Kenya	TARDA - Tana and Athi River Development Authority	Completed
Water Pumping Station	Lebanon	Council for Development and Reconstruction	Completed
Beirut Water Treatment Plant	Lebanon	Council for Development and Reconstruction	Completed
Provision Of Supply, Equipping, Construction And Testing And Commissioning Services For The Ghadir Leachate Treatment Plant	Lebanon	Al Jihad for Commerce & Contracting	Works Completed
Provision Of Supply, Equipping, Construction And Testing And Commissioning Services For The Landfill Gas Flaring System	Lebanon	Al Jihad for Commerce & Contracting	Completed
Upgrading of the Existing Composting Facility at Coral from Windrow Technology (Design Capacity: 300 tons/day of Compostable Organics) to Tunnel Technology (Design Capacity: 750 tons/day of Compostable Organics) ⁽⁶⁾	Lebanon	AL-JIHAD FOR COMMERCE & CONTRACTING S.A.L / SORIKO LTD JV	Works Completed

Selected Projects

Project Name	Location	Client	Status
Daourat Water Treatment Plant & Pumping Station	Morocco	Office National de l'Eau Potable	Completed
Carmoney Water Treatment Plant	Northern Ireland	Dept of Environment Northern Ireland	Completed
Solid Waste Treatment Plant	Poland	MUNICIPALITE OF WARSAW	Completed
Design and Construction of Craiova Wastewater Treatment Plant	Romania	CFCU (Compania de Apa Oltenia)	Completed
Rehabilitation of 3 wastewater treatment plants in IASI province (IASI 2)	Romania	S.C. Apavital S.A. Iasi	Completed
Construction of 2 Wastewater Treatment Plants and Collectors in Rastu Nou & Bechet	Romania	S.C. COMPANIA DE APA OLTENIA S.A.	Completed
Upgrading of existing wastewater treatment plant in Iasi province (Iasi 1)	Romania	S.C. Apavital S.A. Iasi	Completed
Construction of a Wastewater Treatment Plant in Isalnita	Romania	S.C. COMPANIA DE APA OLTENIA S.A.	Completed
Rehabilitation of wastewater treatment plants in Vaslui, Barlad and Husi	Romania	SC Aquavas SA Vaslui	Works Completed - DNP Period
Khartoum Water Treatment Plant	Sudan	Italian Ministry of Foreign Affairs	Completed
Aleppo Sewage Pumping Station	Syria	Ministry of Housing and Utilities	Completed
Damascus Civil and Industrial Wastewater Treatment Plant	Syria	Damascus Governorate	Completed

Selected Projects

Project Name	Location	Client	Status
Design, supply and installation of additional 50% of SAM WTP filters including necessary mains	Tajikistan	State Unitary Enterprise “Dushanbevodokanal”	Ongoing
Pumping station for irrigation	Tunisia	Ministere de l'Agriculture Direction Generale	Completed
Pumping station for irrigation (2)	Tunisia	Ministere de l'Agriculture CDRA - Korba	Completed
Water Treatment Plant & Pumping Station	Tunisia	Societe Nationale d'Exploitation et de distribution des Eaux	Completed
Pumping station for irrigation for Sidi Smail, Tunisia	Tunisia	Ministere de l'Agriculture CRDA de Baja	Completed
Pumping station for irrigation for Sidi El Barak, Tunisia	Tunisia	Ministere de l'Agriculture	Completed
Construction of 5 Wastewater Treatment Plants and 2 Sea Outfalls - Izmit	Turkey	ILLER BANKASI	Completed
Construction and Operation of Bursa Eastern and Western Wastewater Treatment Plants	Turkey	Republic of Turkey – BUSKI Bursa Water and Sewerage Administration	Completed
Sanliurfa Water Treatment Plant and Pumping Station	Turkey	DSI General Directorate of State Hydraulic Works	Completed
Construction and Operation of Mersin Wastewater Treatment Plant	Turkey	MESKI (Mersin Water and Sewerage Admin)	Completed
Melen Water Treatment Plant	Turkey	Ministry of Energy and Natural Resources General, Directorate of State Hydraulic Works (DSI)	Completed
Operation and maintenance of a Wastewater Treatment Plant in MERSIN	Turkey	MESKI (Mersin Water and Sewerage Admin)	Completed

Selected Projects

Project Name	Location	Client	Status
Construction of Küçükkumla, Akçalar and Nilüfer Wastewater Treatment Plants (Bursa)	Turkey	Bursa Water and Sewerage Administration (BUSKİ) General Directorate	Works Completed - O&M Period
Saadiyat Island Wastewater Treatment Plant STP 2 (Main Sewage Pump Station and Force Main)	UAE	Kharafi National / TDIC Tourism Development Investment Company	Completed
Reconstruction of wastewater treatment plant, including construction of sludge dewatering facility (under the Second Urban Infrastructure Project (UIP2) - Ukraine)	Ukraine	Utility Company "Ternopilvodokanal"	Ongoing

