EMIT Group

Ercole Marelli Impianti Tecnologici
SOLUTIONS TO THE WORLD’ ENVIRONMENTAL NEEDS

EMIT Group is one of the major Italian Engineering and Contracting Companies specialized in the environmental protection and pollution control.

EMIT Group designs and builds plants on a turn-key basis for water and wastewater purification and treatment, solid wastes treatment and soil remediation systems.

Founded in 1973, up today has successfully completed more than 400 turn-key projects in the field, and operated in more than 30 Countries worldwide.

Millions of people relay on the facilities studied, designed, installed and operated by EMIT Group.
Technical Competence

The experience achieved in the study and construction of several type of plants together with the application of specific know how and in-house technical capabilities, allows EMIT Group offering the following services:

- EPC solutions
- Process engineering
- Detailed engineering
- Consultancy services
- Construction supervision and coordination
- Start up and commissioning
- Plant operation and after market assistance
Quality Policy

Since Quality is one of the highest EMIT Group’s concerns, all the people involved in the processes are acting following the Quality System. EMIT Group Quality System, is in compliance and certified according to UNI EN ISO 9001:2008 for design, construction, operation and maintenance of plants for: solid waste treatment, waste to energy, pumping, water and wastewater treatment, air treatment, sanitary landfills and polluted soil remediation.

In October 2013, EMIT Group has been successfully certified according to UNI EN ISO 14001: 2004 for Environmental Management System.

This process ensure a continuous improvement and the total control over quality and production schedules, meeting, at the same time the most aggressive deadlines.
ISO 9001
ISO 14001
Certifications
Qualifications

In connection with the activity of EPC Contractor in Italy, EMIT Group holds the associated top ranking qualifications for public works:

- **Qualifications for Public Works**

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<thead>
<tr>
<th>Category</th>
<th>Classification</th>
<th>Description</th>
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<tr>
<td>OS 14</td>
<td>V</td>
<td>Disposal and recovery solid waste plants</td>
</tr>
<tr>
<td>OG 12</td>
<td>IV</td>
<td>Sanitary landfills and polluted soil remediation</td>
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<td>OS 22</td>
<td>VIII</td>
<td>Water and wastewater treatment plants</td>
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<tr>
<td>OG 9</td>
<td>V</td>
<td>Power Plants</td>
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<tr>
<td>OG 6</td>
<td>VII</td>
<td>Pipelines</td>
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</table>
## RELEVANT WORKS

<table>
<thead>
<tr>
<th>COUNTRY LOCATION</th>
<th>EMPLOYER</th>
<th>TYPE OF WORK</th>
<th>EMIT PARTICIPATION</th>
<th>EMIT Contract AMOUNT IN EURO</th>
<th>START DATE</th>
<th>COMPLETION DATE</th>
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<tbody>
<tr>
<td><strong>ITALY</strong> Turin</td>
<td>Azienda Po Sangone</td>
<td>Waste Water Treatment Plant</td>
<td>J.V. Partner</td>
<td>€ 24,750,000</td>
<td>1990</td>
<td>1993</td>
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<tr>
<td><strong>SUDAN</strong> Khartoum</td>
<td>Italian Ministry of Foreign Affairs</td>
<td>Water Treatment Plant</td>
<td>Contractor</td>
<td>€ 7,660,000</td>
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<td>1993</td>
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<tr>
<td><strong>LEBANON</strong> Beirut</td>
<td>Council for Development and Reconstruction</td>
<td>Water Pumping Station</td>
<td>Contractor</td>
<td>€ 5,086,000</td>
<td>1992</td>
<td>1994</td>
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<tr>
<td><strong>LEBANON</strong> Beirut</td>
<td>Council for Development and Reconstruction</td>
<td>Water Treatment Plant</td>
<td>J.V. Leader</td>
<td>US$ 4,010,000</td>
<td>1994</td>
<td>1995</td>
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<tr>
<td><strong>INDONESIA</strong> Banjarmasin</td>
<td>Ministry of Public Works</td>
<td>Water Treatment Plant</td>
<td>Leader of J.V.</td>
<td>€ 10,901,550</td>
<td>1992</td>
<td>1995</td>
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<td><strong>BELGIUM</strong> Lokeren</td>
<td>AQUAFIN</td>
<td>Civil and Industrial Waste Water Treatment Plant</td>
<td>Contractor</td>
<td>€ 3,341,000</td>
<td>1995</td>
<td>1997</td>
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<td><strong>NORTHERN IRELAND</strong> Carmonney</td>
<td>Dept of Environment Northern Ireland</td>
<td>Water Treatment Plant</td>
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<td>€ 11,001,274</td>
<td>1995</td>
<td>1997</td>
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<td><strong>ITALY</strong> Rome</td>
<td>ACEA Azienda Comunale, Energia e Ambiente</td>
<td>Waste Water Treatment Plant</td>
<td>J.V. Leader</td>
<td>€ 8,670,000 en 3 phases</td>
<td>1990</td>
<td>1998</td>
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<td><strong>KENYA</strong> Kiambere</td>
<td>TARDA - Tana and Athi River Development Authority</td>
<td>Water Treatment Plant &amp; Pumping Station</td>
<td>J.V. Leader</td>
<td>10,617,000 en 2 phases</td>
<td>1994</td>
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<tr>
<td><strong>TUNISIE</strong> Korba Menzel</td>
<td>Ministere de l'Agriculture CORA - Korba</td>
<td>Pumping station for irrigation</td>
<td>Contractor</td>
<td>€ 1,557,496</td>
<td>1994</td>
<td>1998</td>
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<tr>
<td><strong>EGYPT</strong> Sidi Kir</td>
<td>E.E.A. Egyptian Electricity Authority</td>
<td>Power Station - Water and Wastewater Treatment Plant</td>
<td>Contractor</td>
<td>€ 8,550,299</td>
<td>1996</td>
<td>1999</td>
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<td>COUNTRY LOCATION</td>
<td>EMPLOYER</td>
<td>TYPE OF WORK</td>
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<td>TUNISIE</td>
<td>Kerker</td>
<td>Water Treatment Plant &amp; Pumping Station</td>
<td>Contractor</td>
<td>€1,261,130</td>
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<td>ITALY</td>
<td>Melilli (Sicily)</td>
<td>Water Sanitary Landfill</td>
<td>Contractor</td>
<td>€2,711,000</td>
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<td>ITALY</td>
<td>Albonese</td>
<td>Industrial Solid Waste Recycling Plant with RDF Production</td>
<td>Contractor</td>
<td>€7,747,000</td>
<td>1999</td>
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<td>POLAND</td>
<td>Warsaw</td>
<td>Solid Waste Treatment Plant</td>
<td>Contractor</td>
<td>€4,841,000</td>
<td>1994</td>
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<td>EGYPT</td>
<td>Ayoun Moussa</td>
<td>Power Station - Water and Wastewater Treatment Plant</td>
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<td>€7,649,000</td>
<td>1997</td>
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<td>SYRIA</td>
<td>Aleppo</td>
<td>Sewage-Pumping Station</td>
<td>Contractor</td>
<td>€5,254,690</td>
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<td>ITALY</td>
<td>Rossano Calabro</td>
<td>Electrostatic Precipitators</td>
<td>Contractor</td>
<td>€28,768,000</td>
<td>1995</td>
<td>2000</td>
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<td>TUNISIE</td>
<td>Sidi Smail</td>
<td>Pumping station for irrigation</td>
<td>Contractor</td>
<td>€2,663,224</td>
<td>1995</td>
<td>2001</td>
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<td>MOROCCO</td>
<td>Daourat</td>
<td>Water Treatment Plant &amp; Pumping Station</td>
<td>DH 6,570,000 plus €782,000</td>
<td>1995</td>
<td>2001</td>
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<td>TUNISIE</td>
<td>Sidi El Barak</td>
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<td>€6,186,503</td>
<td>1995</td>
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<td>CHINA</td>
<td>Gongbei</td>
<td>Waste Water Treatment Plant &amp; Pumping Station</td>
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<td>EGYPT</td>
<td>Suez et Port Said</td>
<td>Electrochlorination Plant</td>
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<td>€3,260,000</td>
<td>2002</td>
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<td>CHINA</td>
<td>Dafeng</td>
<td>Water Supply Project</td>
<td>Contractor</td>
<td>€3,629,000</td>
<td>2002</td>
<td>2004</td>
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<td>ITALY</td>
<td>Brindisi</td>
<td>Solid Waste Recycling Plant with Compost and RDF Production</td>
<td>J.V. Leader</td>
<td>€3,291,509</td>
<td>2001</td>
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<td>ITALY</td>
<td>Sieroterapico - Milan</td>
<td>Polluted Soil Remediation</td>
<td>J.V. Partner</td>
<td>€4,157,000</td>
<td>2001</td>
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<td>COUNTRY LOCATION</td>
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<tr>
<td>ALBANIA</td>
<td>UKKO – Ujëshës Kanalizime Korça</td>
<td>Water Supply and Sewerage</td>
<td>J.V. Leader</td>
<td>€ 8,442,000</td>
<td>2000</td>
<td>2005</td>
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<td>TURKEY</td>
<td>Republic of Turkey – Bursa Water and Sewerage Administration - General Directorate</td>
<td>Construction and Operation of Bursa Eastern Wastewater Treatment Plant</td>
<td>J.V. Leader</td>
<td>€ 10,967,450</td>
<td>2003</td>
<td>2007</td>
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<td>TURKEY</td>
<td>DSI General Müdürlüğü İçmesuylu ve Kanalizasyon-Dairesi Başkanlığı</td>
<td>Water Treatment Plant</td>
<td>J.V. Leader</td>
<td>€ 7,265,000</td>
<td>2001</td>
<td>2007</td>
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<td>EGYPT</td>
<td>Cairo Electricity Production Co.</td>
<td>Power Station - Water and Wastewater Treatment Plant</td>
<td>Contractor</td>
<td>€ 3,450,000</td>
<td>2003</td>
<td>2007</td>
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<tr>
<td>MACEDONIA</td>
<td>M.J.P. PROAQUA</td>
<td>Design, supply and installation of water supply system</td>
<td>J.V. Leader</td>
<td>€ 2,090,000</td>
<td>2003</td>
<td>2007</td>
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<tr>
<td>JORDAN</td>
<td>Ministry of Water and Irrigation</td>
<td>Restructuring &amp; Upgrading of waste Water Facilities &amp; Effluent Reuse</td>
<td>Contractor</td>
<td>€ 5,800,000</td>
<td>2005</td>
<td>2008</td>
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<td>ITALY</td>
<td>Ergosud spa</td>
<td>Zero discharge water treatment system</td>
<td>J.V. Partner</td>
<td>€ 7,000,000</td>
<td>2005</td>
<td>2008</td>
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<td>JORDAN</td>
<td>Ministry of Water and Irrigation</td>
<td>Water Supply Project Stage 1+2</td>
<td>Contractor</td>
<td>€ 31,295,017</td>
<td>2001</td>
<td>2010</td>
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<td>TURKEY</td>
<td>Mersin WWTP</td>
<td>Construction and Operation Wastewater Treatment Plant</td>
<td>J.V. Partner</td>
<td>€ 10,665,000.00</td>
<td>2007</td>
<td>2011</td>
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<tr>
<td>Craiova</td>
<td>CFCU Compania de Apa Oltenia</td>
<td>Design and Construction of Craiova Wastewater Treatment Plant Fidic Yellow Book</td>
<td>Consortium Leader</td>
<td>€ 19,587,781.00</td>
<td>2008</td>
<td>2011</td>
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<tr>
<td>EGYPT</td>
<td>Techint spa</td>
<td>Methanol production - Water Treatment Plant</td>
<td>Supplier</td>
<td>€ 4,370,713</td>
<td>2007</td>
<td>2011</td>
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<td>EGYPT</td>
<td>Kharafi National / East Delta Electricity Production Company</td>
<td>Power Station - Water Treatment Plant</td>
<td>Supplier</td>
<td>€ 6,130,000 ($ 8,174,600.00)</td>
<td>2011</td>
<td>2012</td>
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<tr>
<td>EGYPT</td>
<td>Kharafi National / East Delta Electricity Production Company</td>
<td>Power Station - Water Treatment Plant</td>
<td>Supplier</td>
<td>€ 12,370,000 ($ 16,497,000.00)</td>
<td>2011</td>
<td>2012</td>
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<tr>
<td>U.A.E.</td>
<td>Kharafi National / TDIC Tourism Development Investment Company</td>
<td>Waste Water Treatment plant</td>
<td>Supplier</td>
<td>€ 16,000,000.00</td>
<td>2009</td>
<td>2013</td>
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<td>TURKEY</td>
<td>Ministry of Energy and Natural Resources General Directorate of State Hydraulic Works (DSS)</td>
<td>Water Treatment Plant</td>
<td>J.V. Partner</td>
<td>$ 10,900,000</td>
<td>2001</td>
<td>2013</td>
</tr>
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</table>
## WORKS IN PROGRESS

<table>
<thead>
<tr>
<th>COUNTRY LOCATION</th>
<th>EMPLOYER</th>
<th>TYPE OF WORK</th>
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<th>EMIT Contract AMOUNT IN EURO</th>
<th>START DATE</th>
<th>COMPLETION DATE</th>
</tr>
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<tbody>
<tr>
<td>ROMANIA Iasi</td>
<td>SC. Apavital S.A. Iasi</td>
<td>Waste Water Treatment Plant</td>
<td>Sole Contractor</td>
<td>€ 10.125.000</td>
<td>2012</td>
<td>2015</td>
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<td>ROMANIA Iasi</td>
<td>SC. Apavital S.A. Iasi</td>
<td>No. 3 Waste Water Treatment Plant</td>
<td>Sole Contractor</td>
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<td>2012</td>
<td>2015</td>
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<td>ROMANIA Iasi</td>
<td>SC. Compania de Apa Oltenia S.A</td>
<td>Rehabilitation of Water Treatment Plant</td>
<td>J.V. Partner</td>
<td>€ 8.206.000</td>
<td>2013</td>
<td>2015</td>
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<td>ROMANIA Isalnita</td>
<td>SC. Compania de Apa Oltenia S.A</td>
<td>Transfer collector + No. 2 Waste Water Treatment Plant</td>
<td>J.V. Partner</td>
<td>€ 14.668.000</td>
<td>2013</td>
<td>2015</td>
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<tr>
<td>EGYPT Suez</td>
<td>E.E.A. Egyptian Electricity Authority</td>
<td>Power Station - Condensate Polishing Unit</td>
<td>Subcontractor</td>
<td>€ 4.900.000</td>
<td>2013</td>
<td>2015</td>
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<td>ROMANIA Vaslui</td>
<td>SC AQUAVAS SA Vaslui</td>
<td>No. 3 Waste Water Treatment Plant</td>
<td>J.V. Partner</td>
<td>€ 9.000.000</td>
<td>2014</td>
<td>2016</td>
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<td>EGYPT Abu Qir</td>
<td>Abu Qir Fertilizers and Chemical Industries</td>
<td>Supply of Pressure Vessels</td>
<td>Subcontractor</td>
<td>€ 755.000</td>
<td>2015</td>
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</table>
ALBANIA - Korça

Water Supply and Sewerage Project

Client: Water Supply and Sewerage Enterprise (UKKO) of Korça Municipality (Albania)

Total Contract Value: € 8,442,000.00

Completion Date: 2005

Scope of Work: drilling of new wells and associated lines
  collecting reservoirs
  erection of pumping station
  8.7 Km of transmission mains
  70 Km of distribution network including 5,000 house-connections and 8,000 water meters
  erection of administration complex
  complete SCADA system for automation and remote control
JORDAN – Amman (Stage 1 + Stage 2)

Water Supply Project

Client: Ministry of Water and Irrigation

Total Contract Value: € 31,295,017.30

Completion Date: 2010

Scope of Work: - primary pipeline distribution with 14 Km of ductile iron diam. 800 mm pumping station construction,
- pumping station reabilitation and installation of chlorination equipment,
- two reservoirs construction with a combined capacity of 14,500 m³,
- secondary and tertiary distribution pipelines with 115 Km of ductile iron with diam. from 100 to 700 mm
- associated house connections
CHINA – Dafeng

Water Treatment Plant

Client: China National Instruments Import & Export

Total Contract Value: € 3,629,000.00

Treatment Capacity: 100,000 m3/d

Completion Date: 2004

Process: raw water pumping station
flocculation – clarification
rapid gravity filtration
chlorination
chemical dosing
sludge dewatering
TURKEY – Sanliurfa

Water Treatment Plant and Pumping Station

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

Total Contract value: € 29,785,000.00

Treatment Capacity: 270,000 m³/d

Completion Date: 2007

Process: raw water pumping station
         aeration
         flocculation - clarification
         rapid gravity filtration
         chlorination
         chemical dosing
         treated water pumping station
         sludge thickening and dewatering
TURKEY – Melen

Water Treatment Plant

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

Total Contract Value: € 44,846,000.00

Treatment Capacity: 720,000 m3/d

Completion Date: 2013

Process: aeration
         prechlorination
         flocculation
         clarification
         filtration
         postchlorination
         sludge thickening and dewatering
SYRIA – Damascus

Civil and Industrial Waste Water Treatment Plant

Client: Governatorate of Damascus

Total Contract Value: US$ 29,750,000.00

Treatment Capacity: 650,000 m³/d

Completion Date: 2003

Process: pre-treatments
primary sedimentation
biological treatment
secondary sedimentation
sludge thickening and anaerobic digestion
energy recovery
CHINA – Gongbei

Waste Water Treatment Plant

Client: Guangdong Machinery Import & Export Co. Ltd

Total Contract Value: € 4,717,225.00

Treatment Capacity: 80,000 m³/d

Completion Date: 2003

Process: pre-treatments, biological phosphorus removal, biological denitrification, biological nitrification, final sedimentation, sludge thickening and dewatering
TURKEY – Bursa East + Bursa West

Waste Water Treatment Plants

Client: BUSKI Bursa Water and Sewerage Administration

Total Contract Value: € 75,308,380.00

Treatment Capacity: 351,000 + 165,000 m³/d

Completion Date: 2007

Process: pre-treatments
          biological phosphorus removal
          BOD removal
          biological denitrification
          biological nitrification
          final sedimentation
          sludge dewatering and stabilization
TURKEY – Izmit

5 Waste Water Treatment Plants and 2 Sea Outfalls

Client: Iller Bankasi

Total Contract Value: € 18,323,000.00

Treatment Capacity: 93.000 + 91.000 + 81.000 + 29.000 + 23.000

Completion Date: 2007

Process: pre-treatments
biological denitrification
biological nitrification
final sedimentation
sludge thickening, sludge dewatering
TURKEY – Mersin

Waste Water Treatment Plant Construction and Operation

Client: General Directorate of Mersin (MESKI)

Total Contract Value: € 54,924,221.00 (EPC) + € 9,324,614.00 (O&M)

Treatment Capacity: 190,000 m3/d

Completion Date: 2011 (EPC) and 2015 (O&M)

Process:
- raw water pumping stations
- pretreatments
- primary sedimentation
- NBR activated sludge system
- final sedimentation
- sludge thickening
- sludge anaerobic digestion
- mechanical sludge dewatering
- sludge lime stabilization
- co-generated heat and power plants
ROMANIA – Craiova

Waste Water Treatment Plant

Client: Compania De Apa Oltenia

Total Contract Value: € 25,966,213.00

Treatment Capacity: 129,600 m3/d

Completion Date: 2011

Process: pretreatments
primary sedimentation
NBR activated sludge system
final sedimentation
sludge thickening
sludge anaerobic digestion
mechanical sludge dewatering
co-generation system
U.A.E. (ABU DHABI) – Saadiyat Island STP2 Project

Waste Water Treatment Plant

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

Total Contract Value: € 84,655,742.00

Capacity: 20,000 (I Phase) m³/d
   78,000 (Final prevision) m³/d

Completion Date: 2013

Process: pre-treatment
   BOD and nitrate removal
   MBR system
   sludge dewatering and stabilization
   water reuse
   odour control system
EGYPT – Sidi Krir

Power Station Water Treatment Plant

Client: EEA - Egyptian Electricity Authority

Total Contract Value: € 8,550,299.00

Completion Date: 2001

Process: demineralization, condensate polishing, sodium hypochlorite production, waste water treatment
EGYPT – Ayoun Moussa

Power Station Water Treatment Plant

Client: EEA - Egyptian Electricity Authority

Total Contract Value: € 7,649,000.00

Completion Date: 2000

Process: demineralization
condensate polishing
sodium hypochlorite production
waste water treatment
EGYPT – Port Said

Power Station Water Treatment Plant

Client: EDF – Électricité de France

Total Contract Value: € 1,531,057.00

Completion Date: 2003

Process: sodium hypochlorite production
EGYPT – Suez

Power Station Water Treatment Plant

Client: EDF – Électricité de France

Total Contract Value: €1,560,226.00

Completion Date: 2003

Process: sodium hypochlorite production
EGYPT – Cairo North

Power Station Water Treatment Plant

Client: Cairo Electricity Production Co.

Total Contract Value: € 3,450,000.00

Completion Date: 2007

Process: demineralization
waste water treatment
ITALY - Scandale

Power Station Water Treatment Plant: Zero discharge

Client: ERGOSUD S.p.A.

Total Contract Value: € 7,000,000.00

Completion Date: 2010

Process: pre-treatments
demineralization
oil water treatment
waste water treatment
EGYPT - Damietta

Methanol Project - Water Treatment Plant

Client: TECHINT S.p.A./EMETHANEX (Canada)

Total Contract Value: € 4,400,000.00

Completion Date: 2010

Process: pre-treatments with Ultrafiltration system
demineralization
condensate polishing
EGYPT – Al Shabab

1000 MW Gas Turbine Power Plant - Water Treatment Plant

Client: KHAFAFI NATIONAL
Total Contract Value: €12,690,000.00

Completion date: 2012

Process: pre-treatments with Ultrafiltration
reverse osmosis
eminalization
EGYPT - Damietta

500 MW Gas Turbine Power Plant - Water Treatment Plant

Client: KHARAFI NATIONAL

Total Contract Value: € 6,287,000.00

Completion Date: 2012

Process: pre-treatments with Ultrafiltration
reverse osmosis
demineralization
ITALY - Albonese

Solid Waste Treatment Plant with RDF Production

Client: Ecotras

Total Contract Value: € 6,055,000.00

Capacity: 360 t/d inlet of industrial solid waste

Completion Date: 2000

Process: feeding with chain conveyor
screening with bucket sieve
sorting plant with recovers of plastic, rubber, paper and wood
separation of ferrous and non ferrous metals
primary and secondary shredding
baling press with wrapping of RDF material and its storage
ITALY - Brindisi

Municipal Solid Waste Recycling Plant with Compost and RDF Production

Client: Comune di Brindisi

Total Contract value: € 9,640,227.00

Capacity: 500 t/d inlet of municipal solid waste

Completion Date: 2004

Process: weighing and reception
bags ripping and screening
accelerated biostabilization by biotunnels
ferrous and non ferrous materials separation
RDF production
compost production
air treatment
milling unit for aggregates
ITALY – Lauria (POTENZA)

Integrated System for Solid Wastes Management - Locality “CARPINETO”

Client: Comune di Lauria (PZ)

Total Contract value: € 5,369,000.00

Completion Date: 2009

Process: feeding system
    milling and bags ripping
    selection by rotary screening
    ferrous and no ferrous material separation
    pressing and packaging section for dry fraction
    biostabilization by biotunnels of the organic fraction
    landfill for the organic fraction disposal
ITALY - Melilli

Industrial Waste and Sludge Landfill

Client: Cisma – Siracuse

Total Contract Value: € 2,711,000.00

Capacity: 95.440 m³

Completion Date: 2000

Scope of Work: realization of basins and general landfill services including leachate collecting and storage systems.
ITALY – Milan

Polluted Soil Remediation

Client: Fallimento Istituto Sieroterapico Milanese

Total Contract Value: € 7,855,439.00

Completion Date: 2005

Scope of Work: contaminated soil of laboratory wastes excavation and microbiological production (serums and vaccines) microbiological and radioactive contamination soils monitoring soils sterilization contaminated soils disposal
ITALY – Napoli – Bagnoli / Coroglio

Ground water Treatment Plant

Client: Sviluppo Italia Aree Produttive S.p.A.

Total Contract Value: € 4,627,966.00

Completion Date: 2009

Process: pre- treatments
    iron removal by Oxidation
    manganese removal
    chemical- physical treatment
    dual media filtration
    sludge treatment
ITALY – Acerra (NAPOLI)

Ground water Treatment plant

Client:  Sviluppo Italia Aree Produttive S.p.A.

Total Contract Value: € 2,910,44.00

Completion Date: 2008

Process: pre- treatment with equalization basin and dual media
  stripping column
  filtration with activated carbon
  chemical-physical treatment
  manganese removal in column
  sludge treatment