OUR EXPERIENCE,
OUR BEST ASSET

Environmental Services

Oemgrisa
ABOUT US

EMGRISA – Empresa para la Gestión de Residuos Industriales, S.A. is part of the Enusa Group (SEPI holding). Since 1990 we have provided a wide range of services aimed to preserve the environment and ensure an efficient use of energy.

WHERE ARE WE?

OFFICES
OWN WASTE TREATMENT FACILITIES
SUBSIDIARIES WASTE TREATMENT FACILITIES
PROJECTS
OUR SERVICES

WASTE TREATMENT AND MANAGEMENT:

Industrial Waste
Collection, transport and management of hazardous and non-hazardous industrial waste, prioritizing waste reuse and recovery.

Waste Transfer Station, Alcázar de San Juan (Ciudad Real).
Liquid waste storage capacity: 1,100 m³. Solid waste capacity: 1,000 ton/year.
Laboratory and shredding unit. Lorry fleet with 5 vehicles, including 1 tank truck.
Municipal Solid Waste
Design, construction and operation of MSW recovery facilities. Biodrying and accelerated oxidation technology using airflow. Odour free system and no contact with the waste.

Cervera de Maestre Complex (Castellón). The most advanced biotechnological plant in Spain with processing capacity up to 120,000 ton/year. It serves 49 municipalities with a seasonal population of 300,000 inhabitants.

More information at www.bionord.es
Agricultural, Livestock and Agro-industrial Waste
Waste treatment for energy generation (biogas) and agronomic valorization of digestate. Ad hoc plants design. Support at all stages of the project (administrative processes, construction, start-up and operation).

Biogas Plant, Juzbado (Salamanca)
Treatment capacity: 70,000 ton/year. Power generation: 500 kW. Operating time: >8,000 h/year. It is the first plant of its kind in Castille-Leon.

PROCESS
1 Waste storage
   1a Liquids
   1b Solids
2 Supplying and mixing
3 Digestion
   3a Heating
   3b Stirring
4 Separation
5 Digestate storage
6 Cogeneration unit
CONTAMINATED SOIL AND GROUNDWATER

Performance of all kinds of environmental site assessment on soil and groundwater contamination. Restoration measures are undertaken using the best available techniques. Design of solutions based on feasibility analysis and pilot tests.

Experience
Over 350 soil and groundwater environmental assessments. More than 60 remedial design projects and 125 remedial action projects. Experience in a wide range of industries and with a great variety of contaminants (hydrocarbons, heavy metals, PCBs, HCH, explosives, etc.)
ONSITE WASTE TREATMENT UNIT – THERMAL DESORPTION

Design, construction and operation of portable plants for the treatment of sludge and soils polluted with organic and volatile inorganic compounds. Own patented design with a high treatment capacity, an effective gas treatment system and low energy consumption.

THERMAL DESORPTION
(EMGRISA’S TECHNOLOGY)

Gaseous stream  Solid stream  Liquid stream

POLLUTED SOIL

Gas phase:
• Water
• Volatile compounds
• Combustion gases

PRE-DRYING

DESORPTION

COMBUSTIÓN / POSTCOMBUSTIÓN

CLEAN SOIL

Heat recovery

CONSOLIDATION

Liquid phase:
• Water
• Condensed volatile compounds

FREE PRODUCT

WATER

Water and product recovery

WATER TREATMENT

EMISSIONS

Dust

Thermal Desorption Unit
High treatment capacity: up to 30 t/h.
Energy consumption: from 5 kg/t.
Low emissions to the atmosphere in accordance with Directive 2010/75/EU.
Suitable for different types of soil and organic pollutants.

More information at http://www.youtube.com/watch?v=2juVDsRR9Os
COMPREHENSIVE RESTORATION OF OPEN-PIT MINES


Ciudad Rodrigo Environmental Centre (Salamanca)
Environmental rehabilitation of the former mines of Saelices el Chico.
One of the most significant restorations conducted in the European Union and in Spain.
• Earth-moving: 22 Mm³
• Construction of new tailing dams and ponds; total current capacity 1.7 Mm³
• Pipelines and channels: 10 km.

Technosols
Former open-cut mine restoration and acid mine drainage treatment through low-cost passive techniques.
ENVIROMENTAL
ENGINEERING AND CONSULTING

Feasibility studies, basic & detailed engineering for waste treatment and remediation of contaminated soil and water. Environmental consulting and technical support to all kinds of organizations and industries.

Basic Process Engineering
Waste treatment and refused derived fuel production facility. Getafe (Madrid).

Pilot Plant and Testing
Treatment of dry-dock water polluted with heavy metals. Ferrol harbour (A Coruña).

Multidisciplinary technical team
Our experts have an average of over 10 years experience in the environmental sector.
RADIOLOGICAL STUDIES

The experience of the Enusa Group, in uranium mining and nuclear fuel manufacturing, is the best guarantee of our services:

• Site radiological assessments.
• Radiological Environmental Impact Assessment of NORM industries.
• Design and performance of radiological environmental monitoring programmes.
• Performance of radiological and physicochemical tests in a wide variety of environmental matrices (soil, water, sediments, biota, etc.).
• Complete radiological dose assessment, both individual (external) and environmental.
• Radon monitoring surveys (RD 1439/2010).

Site radiological assessment
On site measurements, sampling and radiochemical analyses. Palomares (Almería).
OUR VALUES

Safety Culture and Commitment to the People
Health and safety of our workers and third parties is our top priority.

Quality Assurance
Our results come from the commitment of our personnel, their proactive attitude and effort for continuous improvement.

Environmental Protection
We protect the environment, not only as the ultimate target of our services, but also by minimizing the impacts caused by our business.

Innovation
Our services include cutting edge technology in order to increase safety, quality and environmental standards.
The Enusa Group belongs to the SEPI Group, a holding of companies comprising a total of 16 public undertakings where it holds a direct and majority stake. These companies had a total workforce of over 74,000 professionals in 2013. Moreover, the SEPI Group has powers over the Radio Televisión Española Corporation (RTVE), oversees a state-owned foundation, and holds a direct minority stake in a further nine undertakings, and an indirect stake in more than a hundred companies.