



ENVIRONMENT

waste management

There is nothing we can't handle on environment: from enviro-chemistry, to sustainability-sensing, to water & waste, up to nature telemetrics & Natura 2000 sites

In the waste sector EPSILON offers:

Depletion of natural resources has led global community during the past few decades to a strategic shift towards a resource-efficient economy which is decoupled from resource and energy use and promotes security through reduced overall resource use. Flagship to this route is **sustainable waste management**, whereby waste is safely managed as a resource. This task forms a major challenge for modern society.

EPSILON offers engineering, consulting, contract research, legal and regulatory support, training, educational and capacity building services to stakeholders aimed to assisting and addressing the challenges of safe, economic, and sustainable waste management. We have been active in waste management since 1989 and our diverse group of engineers and professionals provide consultancy and technical services in the fields of:

- **Waste management strategies and recovery, planning and advice on waste streams**, municipal solid waste, construction & demolition waste, industrial waste (hazardous, non hazardous), health-care waste, sludge from wastewater treatment plants, waste of end off life vehicles, used tires, used batteries and accumulators, animal by-products, agriculture-, green-house- and livestock-waste, asbestos containing materials and waste, waste of oils, waste of electrical and electronic equipment and waste from harbours-, marine- and maritime-facilities.
- **Research and development of waste management technologies**, including mathematical modelling and life-cycle assessments for waste recovery and total zero emission systems.
- **Legislation and policy research and analysis and plans**, including regulatory approval as supported for waste management facilities including planning and permitting linked to EIA/SEA and other impact assessments.
- **Environmental monitoring and field monitoring telematics system**, including UAV/UAS technologies coupled to sensors and geoinformation technologies.
- **Strategic and financial waste management** and plans linked to qualitative and quantitative determination of waste generation-characterization of waste streams and modelling of waste data statistics.
- **Facility engineering design** (blue prints) and construction support, contract and project management including construction project management.

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Our projects on waste:

The EPSILON Group track record includes several projects on local, regional and national level. The long term experience of our company's partners and staff can guarantee high quality of services in any waste management project, with ongoing (2014) project the:

- 1. National Waste Management Plan Revision:** Elaboration of 18 waste management plans for equal waste streams including domestic, medical, hazardous and industrial wastes in accordance with EU and national goals and policies (Greece).
- 2. Western Greece Technical Infrastructure Consultant on co-financed projects:** Contract management, scheduling, quality assurance, cost and risk analysis, progress monitoring during the construction of various engineering projects including waste management facilities.
- 3. EU Waste Acceptance Criteria For Landfills:** Analysis of waste acceptance criteria and waste classification procedures across EU Member States landfills in the context of the Landfill Directive.
- 4. Landfill EIA in the Municipality of Serres:** Environmental & Social Impact Assessment and Environmental Authorization.
- 5. Drainage & Biological Treatment Plant EIA in the Municipality of Elafonisos:** Environmental authorization of sanitation works and wastewater treatment plant works.
- 6. Storm Drainage, Sewage and Wastewater Treatment Plant Study in the Municipality of Messologhi:** Engineering, Economic and Environmental Studies for the rehabilitation and extension of storm drainage and sewage networks, waste water treatment plants, upgrading of infrastructure and other supporting works.
- 7. Drainage and Biological Treatment Works Consultant for the Municipality of Nestoras:** Immediate and reliable response to technical problems; on-site consultation, reporting, analyses during the construction of sewerage and wastewater treatment networks and plants.

- 8. Recycled Water & Pipelines Systems Technical Consultant in Nicosia, Cyprus:** Integrated study concerning the use of recycled water from sewage treatment plants in the broader area of Nicosia.
- 9. Recycled Water Disposal & Pipeline System Feasibility Study in Limassol, Cyprus:** Technical, economic and environmental evaluation of alternatives for sewerage system water recycling and reuse in the broader area of Limassol aiming at operational and financial sustainability with minimal environmental impact.
- 10. SEIS: Shared Environmental Information System of Malta :** National INSPIRE compliant environmental geodatabase and mapping portal; environmental spectrum data modelling including wastewater www.seismalta.org.mt
- 11. URS / FGS-NAVY®: Environmental Governing Standards:** Detailed technical analyses of national and EU environmental laws and standard (EFGS) harmonization for USA Department of Defence installations in Greece.

Our Services are supported by:

- Business Management Consulting also offered by Epsilon Consulting Ltd., Cyprus, www.epsilon-cyprus.com.cy
- GIS/GPS/GSM/GPRS and other IST and field mapping technologies, also offered by Epsilon Italia srl, www.epsilon-italia.it
- Hardware, software, middleware integration supported by PC-Systems SA, www.pcsystems.gr
- Research & development output
- Statistics & GIS database products for Greece & Cyprus
- Training and capacity building also offered by Epsilon Bulgaria ood, <http://epsilon-bulgaria.com>

EPSILON is certified according to ISO 9001:2008 by TUV NORD for: civil & environmental engineering consulting services, design & development of information technologies applications in the field of geoinformatics and GIS, surveying - collection and production of GIS data, project management, GIS & environmental studies, remote sensing & photogrammetry services.

We address cross-sectoral and institutional issues on an international, national and local level to ensure the sustainable use of resources and support financially viable solutions. This multi-discipline approach aims also at pollution prevention, CO2 emissions reduction, energy recovery, increased public awareness and policy adaptation, amongst others.



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Number of EPSILON Group offices in Europe

35

Number of countries where EPSILON has significant presence

120*

Number of large RTD projects conducted during last decade