

The impact of INTERGEO in remediation and waste management and the upcoming innovative services

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INTERGEO is a multinational company with headquarters in Austria. INTERGEO Greece, founded in 1991, operates in various environmental sectors including soil, groundwater investigation, remediation, geotechnics etc. The headquarters are in Thessaloniki. The company is an industry leader in soil and groundwater remediation using well established techniques for cleaning up several industrial sites through the years. Hazardous and non-hazardous waste management is another core operation. The facility in Thessaloniki has a fully licensed hazardous waste storage and two units for waste treatment (i.e. using (i) bioremediation method and (ii) stabilization / sterilization method), that are based on Best Available Techniques (BAT) for pollution prevention and control.

In total, the company finished over 10.000 soil and/or groundwater remediation projects in which in situ and on site physico-chemical and biological technologies have been used and managed more than 100.000 tons of hazardous waste (Oily sludge, fuel residues, spent catalysts, transformers contaminated with PCBs, out-of-spec chemicals, etc) from various industrial and commercial sites throughout Greece. The company also removed over 10.000 tons of asbestos containing materials from various industries, public buildings and residences or other private buildings.

INTERGEO Greece is continuously investing to improve the know-how and its specialized services. As a leader in the field of hazardous waste management, the company has currently installed an innovative vacuum thermal desorption plant to

- i. convert petroleum sludge from a hazardous waste to a non-hazardous, solid residue and
- ii. recover high quality oil for reintroduction into the refining cycle.

By integrating this technology, INTERGEO intends to

- Annually recover up to 1.500 tons of valuable hydrocarbons
- Annually reduce up to 4.000 tons of significant CO₂ emissions
- Transform hazardous waste into non-hazardous materials
- Boost local waste treatment & reduce transport risks over

Since 2005 INTERGEO Greece has expanded its activities in Cyprus, where relevant industry in terms of remediation and waste management is limited, and, to INTERGEO's best knowledge, not aligned with the needs of the country. INTERGEO Cyprus has a continuous development over time, currently managing strategic remediation projects in development in the Municipalities of Larnaca, Paphos and Nicosia.

Figure 1 includes photos from selected remediation projects through in situ technologies in Greece and Cyprus.





Figure 1: In situ chemical oxidation; Bioremediation on site; removal of hazardous and non-hazardous waste (pipelines, tanks etc)