



zeologic

LIQUID & SOLID WASTE TREATMENT USING
THE ZEOLAGIC GEOCHEMICAL METHOD



zeologic

WASTE
ECO TREATMENT



OUR PROFILE

A DYNAMIC GREEK COMPANY

ZEOLAGIC A.E.B.E. is a young dynamic Greek company active in the sensitive sector of treatment of a broad range of urban and industrial waste through the **implementation of the innovative Greek Geochemical Active Aluminium Precipitate Method**, which has been patented across the world with the corresponding **WORLDWIDE PATENT**.

The Geochemical Method is based on the use of special Active Aluminium Precipitate mixtures which are unique for each case and which may be applied to all waste, liquid and solid, hazardous or not.



A REVOLUTIONARY

METHOD

ZEOLOGIC

THE INNOVATION

The key characteristic of the Geochemical Method created by the Company ZEOLOGIC A.E.B.E. is that it is based on the use of natural materials which, in appropriate proportions, can withhold the pollutant load of the waste, resulting in the production of high-quality water that may be reused within existing installations as well as sludge that may be either used as inert material and fertiliser or immediately disposed to the environment without further treatment, fulfilling the specifications set out by the applicable legislation.



THE ADVANTAGES

Advantages of the innovative Geochemical Method using special Active Aluminium Precipitate mixtures in relation to the existing Urban Waste Treatment Technologies:

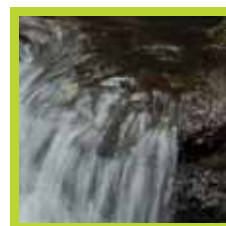
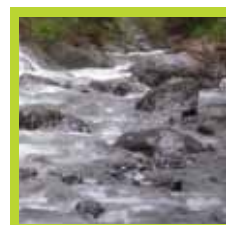
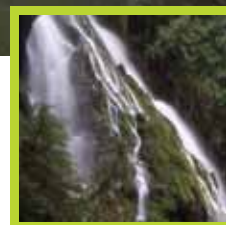
- Can be implemented in new and existing Waste Treatment Plants with great flexibility.
- Assures a steady outflow of exceptional quality
- Offers the option to reuse the total quantity of water used in an installation, with obvious financial and environmental benefits
- Interrupted Operation (Batch Mode) helps prevent errors and facilitates Plant monitoring
- Assures a significant reduction of the pollutant load by more than 99%
- Competitive investment cost compared to other treatment methods
- Achievement of significantly shorter reaction times
- Operational cost is 3 – 10 times lower
- Achievement of a significantly lower operational cost for energy (up to 30%)
- Achievement of significantly lower volumes of produced sewage sludge (up to 70%)
- Achievement of production of inert sludge that can be used as a soil improver – fertiliser
- Achievement of a significant reduction in maintenance cost
- Elimination of odours



THE SPECIFICATIONS

The innovative Geochemical Method using special Active Aluminium Precipitate mixtures fully complies with the specifications set out in the latest readjustment of the applicable legislation (Joint Ministerial Decision oik. 145116 – Official Government Gazette 354/issue B/08-03-2011) regarding waste treatment and enables Treatment Plants to achieve the following targets:

- production of liquid waste of higher specifications that complies with legal requirements; maximum possible recycling of the produced liquid waste;
- need for reduction of the quantities of produced sludge with a simultaneous upgrade of its qualitative characteristics, given that its uncontrolled disposal or deposition in controlled landfills.





CAGS IMPLEMENTATION FIELDS

The key characteristic of the Geochemical Method created by the Company ZEOLIGIC A.E.B.E. is that it is based on the use of natural materials which, in appropriate proportions, can withhold the pollutant load of the waste, resulting in the production of high-quality water that may be reused within existing installations or immediately disposed to the environment without further treatment, fulfilling the specifications set out by the applicable legislation.

The fields where the innovative Geochemical Method of the Company ZEOLIGIC A.E.B.E. can be applied are listed below:

- Management and Neutralisation of Hotel Waste
- Management and Neutralisation of generic Urban Waste
- Management and Neutralisation of Waste from Edible Olive Plants / Olive Oil Plants
- Management and Neutralisation of Waste from Cheese Dairies / Fish Processing / Canning in general / generic Food Processing
- Management and Neutralisation of Waste from Pesticide production procedures
- Management and Neutralisation of Metal Industry Waste
- Urban Waste Sludge Neutralisation and use as soil improver – fertiliser
- Neutralisation of Sludge from general Hazardous Waste processing and safe deposition of sludge as an inert material
- GACS (Geochemical Active Clay Sediment) analysis
- Hospital Waste Neutralisation
- Neutralisation of Liquid waste from Biogas plants
- Radioactive Waste Neutralisation



WE CARE

ABOUT

THEIR

FUTURE

THE PROJECTS

ZEOLIGIC A.E.B.E. has already constructed and operates Waste Neutralisation Plants that use the new Geochemical Method with Active Aluminium Precipitates for Electrostatic Paint Shops, Anodising Plants, Hotels, Olive Oil Plants, Cheese Dairies, Edible Olive Processing Plants and Fisheries Processing Plants in the region of Central Greece, as well as in foreign MARKETS providing ongoing Technical Support/Maintenance and Supply of the Formula required for the achievement of each project's smooth operation. Upcoming rollouts include projects in the pesticide, aviation and automobile industries, drinkable water treatment, as well as urban and non-hazardous sludge treatment plants.

All of the above back the fact that use of the Greek innovative Geochemical Method with Active Aluminium Precipitate by the Company ZEOLIGICA.E.B.E. constitutes an ideal choice for the treatment of all types of waste, such as waste from Electrostatic Paint Shops, Hotels, Olive Oil Plants/Oil Presses/Edible Olive Processing Plants, Cheese Dairies, Waste from Controlled Landfills and BIOGAS plants etc., as it ensures numerous financial, technical and environmental benefits.

The specialised staff of ZEOLIGICA.E.B.E. is always at your disposal, ready to visit your premises and offer an optimal solution that is fully adapted to your needs regarding the management of your installation's liquid and solid waste.



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