Baioni commissioned the first stabilization / solidification plant for solid waste

For over half a century the Baioni Crushing Plants Company has been involved in the project, manufacture, installation and servicing of equipment and solution for the quarrying, mining, recycling, and waste management industries. In the last few years, in the light of new operational scenarios for the supply of technologies, products, services and know-how in the Environment field, for the recovery and redevelopment of brownfield areas and seaports, the Environment Division of the company offers innovative solutions through the techniques of soil washing, technical desorption and solid waste stabilization/solidification. Experience in the field where Baioni has been able to confront themselves with leading companies for projects of land remediation and soil contaminated and stabilization/solidification of hazardous waste.

Besides the high operational costs of the traditional remediation processes (removal and landfill), new alternative techniques have been developed recently, more competitive in terms of price, such as the techniques of stabilization/solidification (S/S). The S/S treatment has been identified by the U.S. EPA (Environmental Protection Agency) as the best available technology for 57 types of waste. The S/S combines two processes closely related to each other, that the EPA defines as follows:

Stabilization: this technique reduces the hazard potential of the waste by converting the contaminants into their less soluble forms (less “mobile”, soluble, toxic). It does not cause changes in the physical properties of the treated material.

Solidification: this stage transforms the waste into a solid material with a high structural integrity, reducing any possible leakage of the polluting substances into the environment. It does not necessarily involve a chemical interaction between the waste and the solidifying agents.

The Baioni Company is able to provide the new technologies among which are the soil washing, thermal desorption, inertisation of solid waste taking care of the project design, the processing of raw materials, the construction of steel structures, sandblasting, painting, the construction of electrical systems, assembly and final testing with turnkey plants.

Soil-washing technology and that of solid waste stabilization/solidification has been successfully tested and there are now several operating plants.

Baioni Crushing Plants is an example of quality evolution and research applied to the production of machinery and plants for crushing, screening and washing quarry and mine aggregate materials as well as machines for recycling demolition material. The company can boast many years of experience in the sector and a deep knowledge of the markets, which guarantee the development and careful production of specific machines and plants for the mining and stone industry at large, offering a complete range of solutions for the entire cycle of industrial treatment.

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