

GRECIAN MAGNESITE S.A.

- ▶ Ranks among the top magnesium oxide producers and exporters in the EU
- ▶ Operates the Chalkidiki Magnesite Deposits applying custom-developed, pioneering technologies
- ▶ Produces Magnesia products which are necessary for a variety of industrial sectors and contribute to improving the quality of life for humans.
- ▶ Invests for the sustainable development of the mine and for the protection of the environment

SULFUR OXIDES are one of the main air pollutants emitted by the burning of fuel in magnesite decomposition kilns. The industrial techniques to reduce these emissions are called **Flue Gas Desulfurization (FGD)**. Typically, FGD involves the use of hazardous chemicals and/or high water consumption and produces solid by-products of no added value.

LIFEPOSITIVEMgOFGD

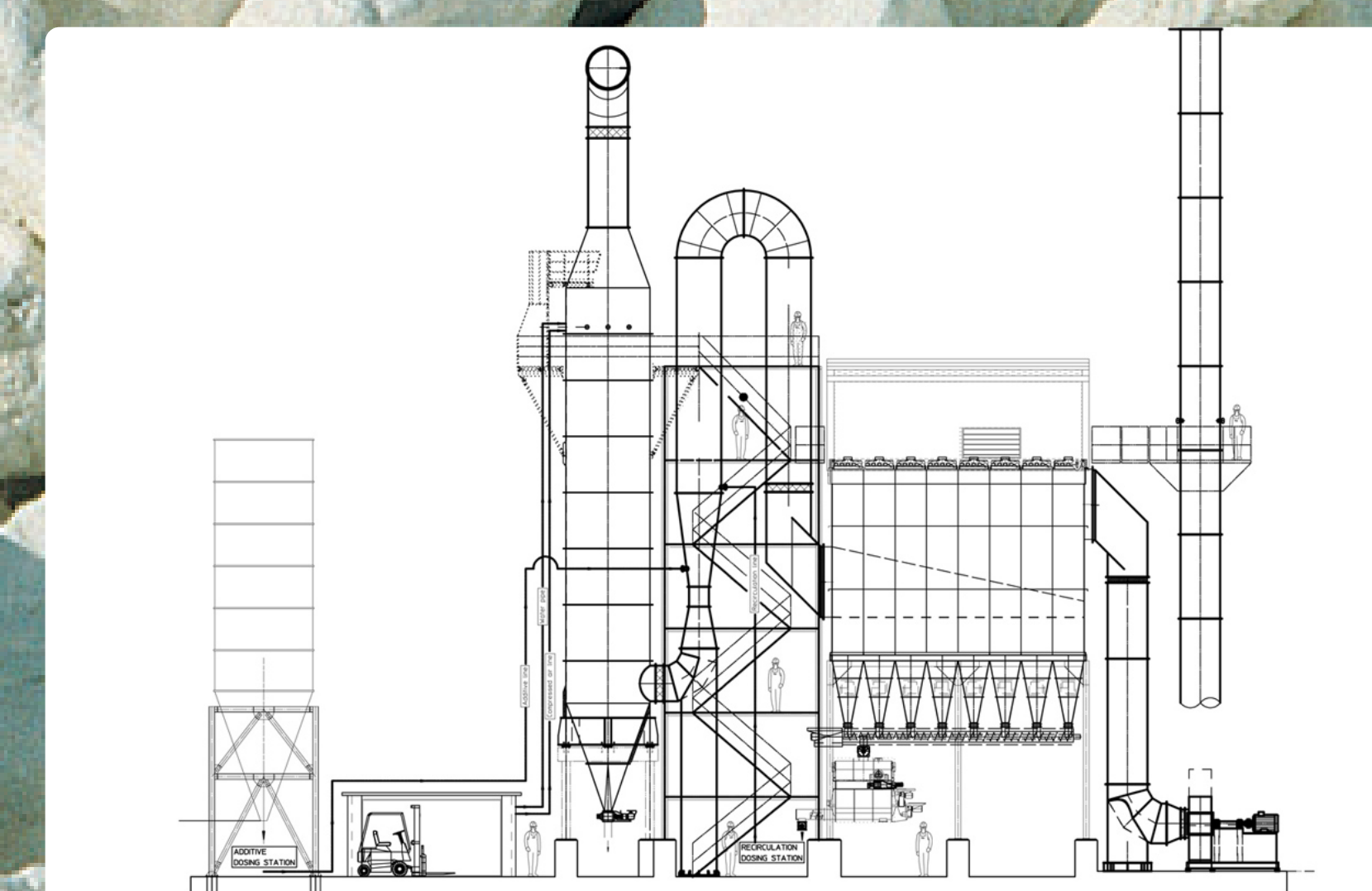
LIFEPOSITIVEMgOFGD is a project co-financed by Grecian Magnesite and **LIFE**, EU's financial instrument supporting environmental and nature conservation projects throughout the member states. It is about designing, constructing and operating a new FGD process in one of the Yerakini Mine kilns. This new process will use magnesium oxide, an environmental friendly reactant, aiming at:

- ▶ Reducing sulfur oxide emissions in the mine area
- ▶ Utilizing more than 90% of the generated solid waste as feedstock for fertilizer and construction products
- ▶ Consuming 40% less energy and 80% less water than typical FGD technologies
- ▶ Transferring the results to other magnesia producers and fuel combustion plants across Europe.

Project Duration: 1/7/2016 – 31/12/2019

Total project budget: 2,333,817 €

EU/LIFE financial contribution: 1,129,690 €



FGD Pilot Plant Design

SUPPORTING THE ENVIRONMENT

