

Project Title: CHORUS Cluster for Green Energy
Contract No: 12SYS-104
Partners: CENTRE FOR RESEARCH & TECHNOLOGY-HELLAS, ESTIA CONSULTING & ENGINEERING SA, SPANOS TECHNOLOGIES, THERMI SA, ENGAIA SA, CHIMAR HELLAS SA, COMPUCON COMPUTER APPLICATIONS SA, DRAXIS SA, EXELGROUP SA, EVIEX, HELLENIC PETROLEUM SA
Duration: 21 October 2013 – 20 October 2015

Abstract:
The CHORUS Clean Energy Cluster brings together companies and research entities in order to establish an arsenal of renewable and zero/low carbon footprint technologies, transformable into innovative, integrated products and solutions for the Global Clean Energy and Green Mobility markets. CHORUS builds on the work ethic of the region's workforce, a pool of knowledge and labour that has been known throughout Greece for excellence and innovation in the Clean Energy/Green Mobility area. Encompassing the advantages of the Region's geography, its access routes (the Egnatia highway, the Port of Thessaloniki, the Makedonia Airport and the Railway connections) the natural resources (sun, fossil fuels) and existing industrial specializations (refineries, steel industry, ceramics, construction, waste processing, information and automation, etc.) CHORUS will develop integrated technologies for renewable energy, energy efficiency and low emissions.

Examples of new products and technologies to be developed are the following: Autonomous Waste Treatment and Heat Recovery Mobile Plant, Smart Retrofit Emission Control Systems, Electric Vehicle Charging Stations, Autonomous solar-fuel plant, Low Carbon Footprint Cement Processor, Re-use of CO₂ into products, Aeolian Energy Forecasting Software, Biopolymers Production Technology, Energy Efficiency in Buildings, Development and International Commercialization.

In the framework of CHORUS, CHIMAR in collaboration with CERTH (facilitator) will explore the production of biopolymer adhesives from chemicals derived from green energy processes and bio-wastes, the application of honeycomb catalysts in chemicals production and energy efficiency in chemical processes.

The Cluster is co-funded by the National Strategic Reference Framework (NSRF) Programme, the European Regional Development Fund and the participating enterprises.



O.P. Competitiveness and Entrepreneurship (EPAN II), ROP Macedonia - Thrace, ROP Crete and Aegean Islands, ROP Thessaly - Mainland Greece - Epirus, ROP Attica