

Intelligent process control – launch of European technology project DISIRE

DISIRE-Distributed In-Situ Sensors Integrated into Raw Material and Energy Feedstock

The European technology project DISIRE aims to set new standards in energy efficiency for chemical, steel and mineral processing and for combustion processes.

The EU project “Distributed In-Situ Sensors Integrated into Raw Material and Energy Feedstock” (DISIRE) was officially launched in Brussels on January 28th, 2015. Top researchers and world leading industrial players involved in DISIRE will develop robust, yet miniaturized in-situ PAT sensors over the next 36 months. These process analysis technologies will provide real-time insights into dynamic processes. DISIRE researchers now intend to integrate the sensors in miniature into raw material flows. The acquired in-situ data will be compiled in a cloud for analysis, making it possible to control processes in real time to reduce energy consumption and increase process efficiency. This goes some way towards making the concept of “intelligent raw materials” a reality and opens up new opportunities for commercial applications and cross-sectoral business scenarios in European industry. Funded under the EU Horizon 2020 framework, SPIRE PPP, the DISIRE project pools the expertise of 15 research and industry partners from Sweden, Spain, Italy, Germany, Poland and Israel.

Partners: ABB AGResearch Center for Energy Resources and Consumption, KGHM CUPRUM, D’Appolonia, Dow Chemicals Ibérica, Electrotech AB, Fraunhofer Center Leipzig, Gstat SA, IMT Institute for Advanced Studies Lucca, KGHM Polska Miedz SA, Luossavaara-Kiirunavaara Aktiebolag AB, Luleå University of Technology, MEFOS, ODYS S.r.l., Wrocław University of Technology

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Project funding: EUR 6 million

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