



SPIRE-07-2017

## **ENSUREAL**

Full Title: Integrated cross-sectorial approach for environmentally sustainable and resource-efficient alumina production

### **Aim:**

The ambition of the ENSUREAL project is to demonstrate that a modified version of the Pedersen process can produce alumina from a wide range of minerals while not producing any waste materials.

### **Concept:**

Compared to the established Bayer process for alumina production, the ENSUREAL process will increase alumina production yield by 15 percentile points and reduce energy consumption by 5.4 GJ/t of alumina associated with the heat demand in the Bayer circle (53% of the total energy demand in the AoG Alumina refinery plant).

### **Start date:**

03/08/2017

### **End date:**

30/09/2021