SUPREEMO

SUstainable EuroPean Rare Earth Elements
production value chain from priMary Ores

The SUPREEMO project will demonstrate at TRL7 environmentally friendly, safe, flexible, and cost competitive processes for the production of targeted Rare Earth Elements (REE) for Permanent Magnets (PM) applications.

EXPLORING POTENTIAL EUROPEAN REE RESOURCES

Despite the availability of relatively abundant resources in Europe, with incredible opportunity to seize, we are still almost 100 % dependent on REE imports.

Although there are presently no mining exploitation activities for REE in Europe, the continent has a tremendous potential to explore them. With more than 60 REE-occurrences and deposits identified, the most well-known are located in Greenland, Sweden and Norway.

These deposits contain REE-reserves estimated to be sufficient to secure the European REE demand for decades to come.

THE SUPREEMO PROJECT WILL BE USING REE RESOURCES FROM:

Fen deposit (Norway) is the largest known light rare earth elements deposit in Europe. It consists mainly of carbonatite type minerals with rare earth minerals in the form of monazite (phosphate) and bastnaesite (fluorocarbonate).

BUILDING THE FIRST PRE-COMMERCIAL RARE EARTH ELEMENTS PRODUCTION VALUE CHAIN

The technologies developed in the framework of the SUPREEMO project will pioneer the production of strategic REE-bearing materials from European ores, achieving competitive costs while adhering to all European environmental and social regulations and standards.

Norway

REE Minerals

CONTACT US

PROJECT COORDINATOR
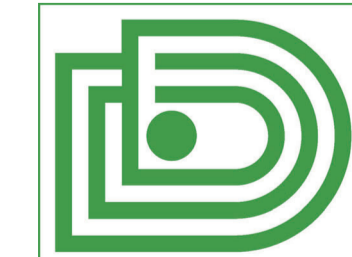
Dr. Arne Petter Ratvik
SINTEF
arne.p.ratvik@sintef.no

Dr. Samuel Senanu
SINTEF
samuel.senanu@sintef.no

FOLLOW US

in

#supreemo-horizon-europe

www.supreemo-project.eu

SINTEF   REE Minerals   MAGNETI LJUBLJANA, d.d.   TUDelft   CHALMERS UNIVERSITY OF TECHNOLOGY

FBERG   PNO BY PNO GROUP   INOVERTIS   pi Prospex Institute   LCM QUALITY PRODUCTS. SUSTAINABLY PROCESSED.   DIAMO