



Summer School

Focus Group Meetings

Conferences

Excursions



Join us feeding the energy transition!

Media / Education

Contact
Prof Dr Axel Bernd Müller
Natural History Museum, University of Oslo
Email: a.b.muller@nhm.uio.no

Internet
<https://www.greenpeg.eu>



Layout and text: GKZ Freiberg eV Photos: IFU, iStock, GKZ, UIO



Greening the economy means securing raw materials supply

The manufacture of devices for green energy production and storage in Europe is a strategic, fast-growing sector which is essential in ensuring that the EU meets its energy and climate targets for 2030. It is worth an estimated €30 Bn in turnover, with investments of €4 Bn in the EU27, and is likely to create c.a. 100,000 jobs over the next 10 years. A major limitation to this is that 95% of the key raw materials for green energy devices are currently imported from outside the EU. Securing domestic deposits is therefore urgent for sustainable industrial development, mainly in retaining a large part of the added value, reducing supply risks and ensuring EU environmental standards for the production of raw materials. Exploration investment in Europe has declined in recent years due to increased technical demand and socio-political debate.

The EU's flagship "Power Up" (clean tech and renewables) as part of its Sustainable Growth Strategy depends on a secure raw material supply by increasing the contribution from domestic mining. Private sector engagement will increase only when technical solutions allow economically viable and environmentally friendly exploration and mining.



Wolfsberg lithium mine project, Carinthia, Austria

Our offer to you. – Are you interested? Join us!

Embedding the GREENPEG scientific approach into raw material awareness, as well as introducing journalists and young careers into the world of exploration to raise public acceptance, GREENPEG envisages to carry out the so called "Focus Group Meetings" at all the three demonstration sites:

- Wolfsberg, Styria, Austria (2021)
- Leinster, Eastern Ireland (2022)
- Tysfjord, Northern Norway (2023)

The two-days meetings are also an essential tool to familiarise end users and other stakeholders with the research and socio-economic environment of the consortium. Emphasis is put on excursions for multipliers such as journalists and representatives of professional and civic associations.



Jennyhaugen high purity quartz quarry at Drag, Tysfjord, Northern Norway

Exploration "Made in Europe" – the EU GREENPEG project at a glance

Many of the raw materials for green energy production can be sourced from lithium-caesium-tantalum (LCT) and niobium-yttrium-fluorine (NYF) pegmatites, a unique ore body being relatively common in Europe. The pegmatite deposits have the size and grade to especially attract small mining operations. GREENPEG aims at reducing exploration costs and impact on environment by developing two innovative and competitive toolsets, including:

- three new instrumental techniques and devices (piezoelectric sensor, helicopter-complementary nose stinger magnetometer, drone-borne hyperspectral imaging system),
- two new datasets and workflows for prospect scale (<50 km²) and district scale (50-500 km²) exploration.

Validation will be ensured from industry-led trials at locations in Norway, Finland, Austria, Portugal, Ireland, and Spain testing different landscape, vegetation and climate environments, and geological settings.