



FÉDÉRATION EUROPÉENNE DES GÉOLOGUES
EUROPEAN FEDERATION OF GEOLOGISTS
FEDERACIÓN EUROPEA DE GEÓLOGOS

For the attention of:

Executive Vice-President Timmermans, Commissioner Simson, Commissioner Breton,
Commissioner Sinkevičius, Commissioner Vălean, Commissioner Gabriel,

Copies:

Director-General Juul Jørgensen, Director-General Petriccione, Director-General Jorna, Director-General Hololei, Director-General Fink-Hooijer, Director-General Paquet, Director-General Pesonen

Brussels, 12 May 2022

Geoscience Solutions for the current European Energy Crisis

Dear Executive Vice-President Timmermans, Commissioner Simson, Commissioner Breton,
Commissioner Sinkevičius, Commissioner Vălean, Commissioner Gabriel,

To help secure geopolitical stability in Europe and fulfil the vision of the EU's Green Deal, we need to harness the untapped energy resources the continent possesses.

A range of viable and scalable geoscience solutions are available that can support the recently announced REPowerEU and future initiatives:

IMMEDIATE GREEN ENERGY OPTIONS

Geothermal

- Right from your back-garden to a whole city
- The minerals for the batteries we need for electrification

This weather-independent, regenerative, energy source offers potential for a major step towards a low carbon, sustainable future and diversification of our energy supply.

Critical minerals

- The vital substances we need for Europe's green transition
- Spurring the digital revolution and assuring our security

The Energy Transition is not going to happen without a reliable critical metals supply and resource security in an uncertain world means local, well-managed, supplies from Europe.

European Federation of Geologists

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LONGER-TERM, STRATEGIC TECHNOLOGIES

Carbon sequestration

- Putting CO₂ back into its vault and protecting the biosphere
- Transforming a pollutant into a booster of soil health

Our current emergency can be a major spur for decarbonisation of hydrocarbon production in Europe by insisting on CCS technology for any new facilities and as many pre-existing as are feasible.

PIONEERING INNOVATIONS

Hydrogen

- The potential for a clean, naturally-sourced, Renewable 2.0, straight from the geology of Europe
- Geothermal green hydrogen: Using natural energy for next generation fuel production

Geological hydrogen from the Earth can be produced with a low environmental footprint and price using proven technologies. We can also offer green hydrogen production using geothermal energy.

By deploying the know-how and technology in place and the momentum of this geopolitical energy crisis, we can enact the generational changes that Europe needs to become the beacon of sustainable and secure energy supply it aspires to.

The European Federation of Geologists (EFG) and its community of 45,000 professionals stand ready to assist the European Union's institutions with our expertise and help develop all potential options for this transformation.

Yours sincerely

Glen Burridge

Executive Director
European Federation of Geologists

Marko Komac

President
European Federation of Geologists