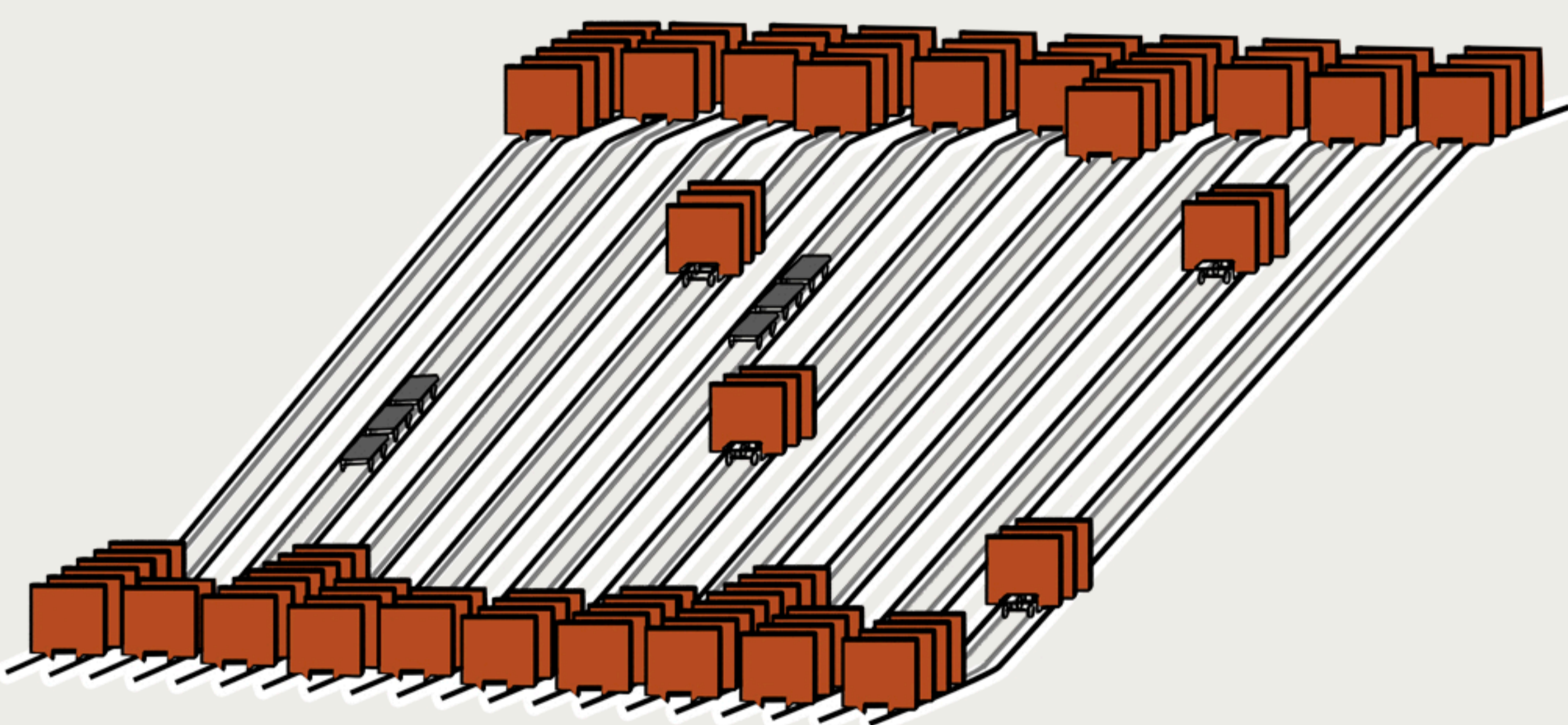


GrEnMine

Gravity reveals energy

Our purpose:

The main objective of the Gravitational Energy Storage in Post-Mine Areas project is to develop novel gravitational energy storage systems located in former mining areas and waste dump sites. These systems move heavy blocks or bulk granular materials between different elevations to store and release energy.



To validate gravitational storage, the project will include detailed mathematical modelling, physical testing with small-scale demonstrators, and the creation of a comprehensive tool for assessing the suitability of open-pit mining sites for gravity-based energy storage.

GrEnMine responds to the growing challenge of energy storage within the context of the global energy transition, where increasingly unstable renewable energy sources, such as solar and wind, are becoming dominant.



Get to know us,
scan the code

Consortium Partners – 4 countries:

Poland

Wrocław University of Science and Technology,
AGH University of Krakow
Four Point sp. z o.o.
PGE Górnictwo i Energetyka
Konwencyjna S.A.
„Poltegor-Institute” Opencast
Mining Institute

Greece

Technical University of Crete
Lignitorycheia Achladas S.A.

Czechia

VUHU a.s.

Romania

University of Petrosani
Societatea Complexul Energetic
Oltenia Sa



Co-funded by
the European Union