

Terroleum UGC Limited is an international geoscience consultancy providing expert exploration, appraisal and development services to the energy & critical raw materials industry for geothermal, geo-storage, mineral extraction, oil and gas projects.

Our company specializes in planning & executing complex cross-functional geoscience & engineering research and development projects, from initial concepts, through feasibility studies, permitting and appraisal, to final development.

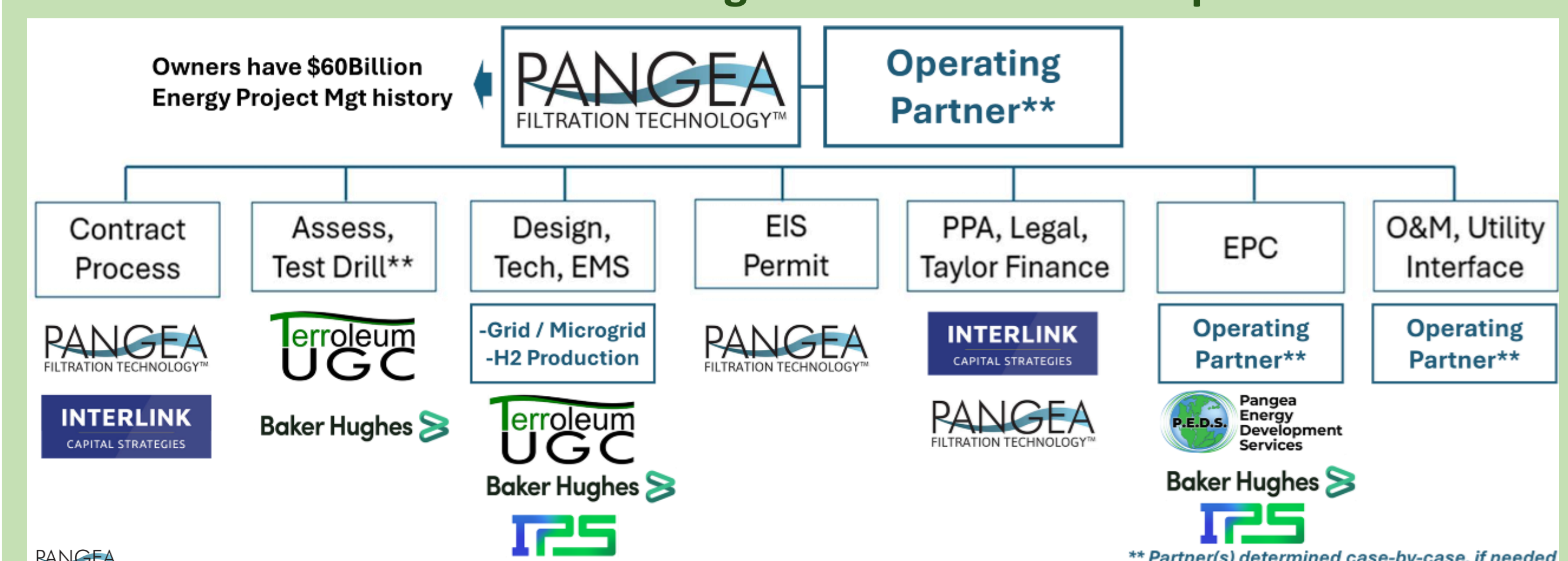
We utilize our global geotechnical experience, partnerships & collaborations with leading international co-workers to build bespoke, cross-sector, multidisciplinary teams and procure services that deliver reliability, quality, efficiency and success.

EMPOWERING PARTNERSHIPS

Terroleum UGC Limited & Pangea Filtration Technology™ are working together today to build partnerships to deliver the sustainable, resilient & life-changing global energy & critical raw materials solutions of tomorrow.

We collaborate and nurture innovative research and knowledge sharing together with our energy-transition partners, technology providers and developers. To lead and empower our partnerships to create and deliver reliable, transformative, sustainable energy & critical raw material projects, adapted to the changing climate, security & resilience needs of the world.

Geothermal-Microgrid Consortium Example



Partners with global track records, collaborating to execute full-cycle development projects, from initial feasibility, to design, financing, final installation & operation

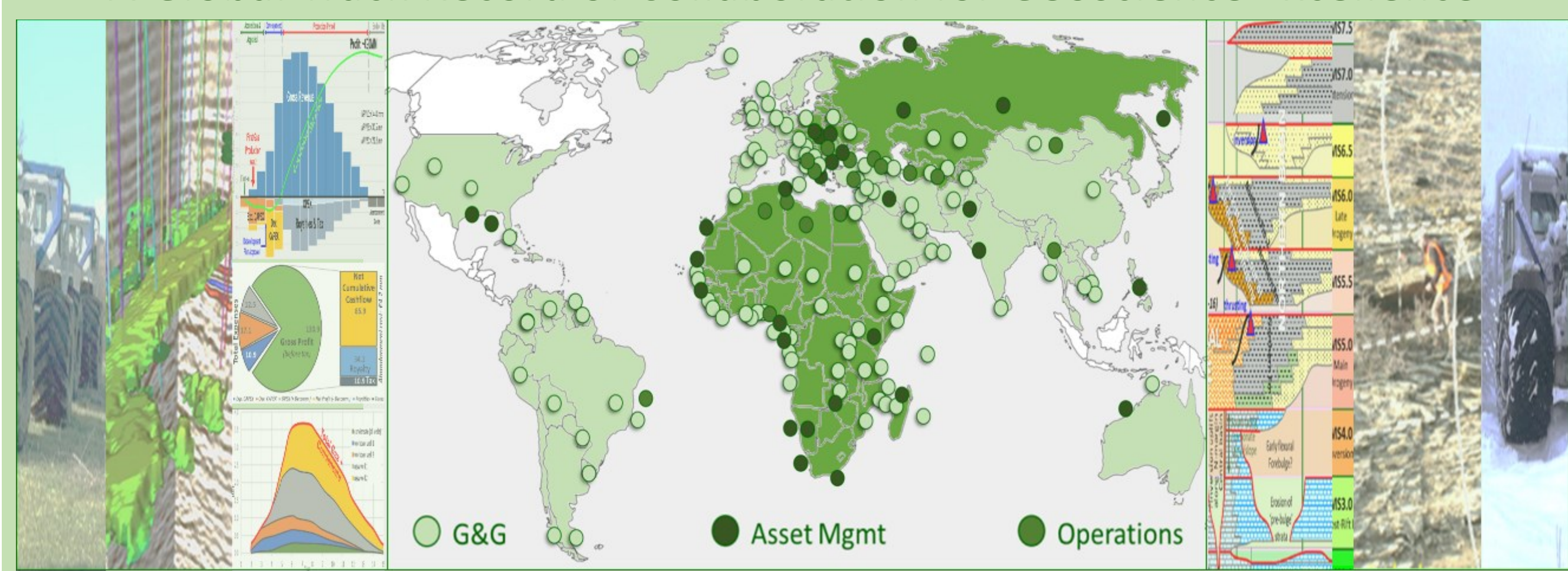
COMPANY EXPERIENCE

At **Terroleum UGC Limited** we utilize our international business, geoscience and engineering experience to provide expert exploration, appraisal and development services to the global energy & critical raw materials industry; for projects on - geothermal energy for power generation and industrial & district heating/cooling, underground natural gas storage, carbon capture, utilization & storage (CCUS), energy geo-storage solutions for H₂, oil and gas exploration & production and sustainable critical raw materials mining (e.g. direct lithium extraction, 'REE's).

We apply our knowledge and skill sets to successfully resolve geotechnical challenges at all phases of a project's life-cycle, from inception and planning, to feasibility studies, appraisal and final development.

Let our experience be your competitive advantage.

A Global Track Record of Collaboration for Geoscience Excellence



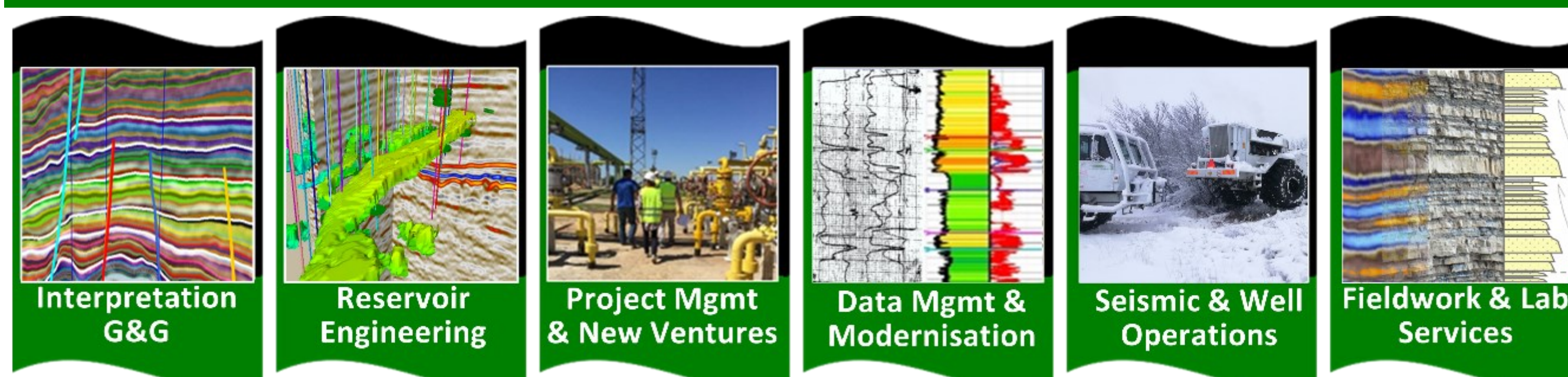
The directors of **Terroleum UGC Limited** are two of the founders of the **Bulgarian Association Geothermal Energy**, a member supported, non-governmental organisation founded to unite efforts for accelerating the development of geothermal energy in Bulgaria and to support research, development & implementation of geothermal energy solutions, legislative changes and to assist Bulgaria's transition to a sustainable, resilient and secure climate-neutral energy future. BAGE is a member of the **European Geothermal Energy Council** and **Global Geothermal Alliance**.

www.egec.org www.globalgeothermalalliance.org



www.bage.bg

CORE GEOSCIENCES EXPERTISE



“Talk to us – to build partnerships with the right global know-how, experience & capabilities to create tomorrow’s sustainable energy solutions today”

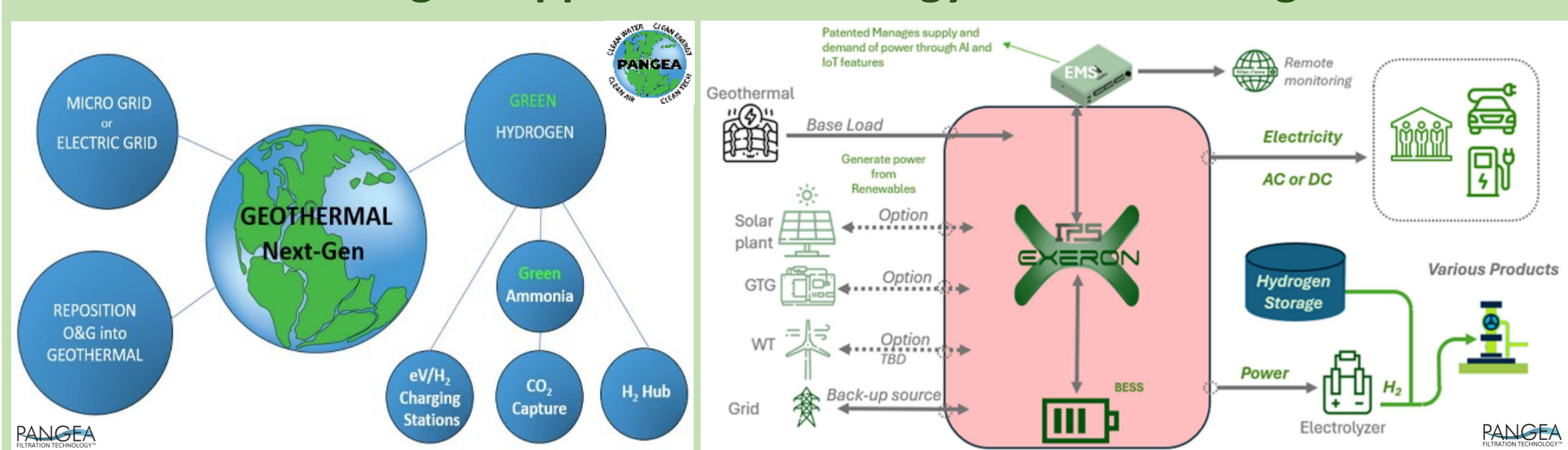
PARTNERSHIP SOLUTIONS WITH ‘PANGEA’

Geothermal Microgrids address an urgent need for dramatic improvements to the reliability, resilience, security and sustainability of strategic power infrastructure around the world.

Geothermal energy is the only source of renewable energy that can provide safe, carbon-neutral, cost-effective **baseload power** to critical facilities of the future, 24/7 for generations to come.

Terroleum UGC Limited, Pangea Filtration Technology™ and our partners are developing innovative geothermal microgrid technologies, designed to provide highly resilient, clean, efficient and secure stand-alone power solutions for critical infrastructure that will work even during the toughest times. These solutions can provide critical facilities with all their power, heating and cooling needs, generate green hydrogen fuel and be combined with other renewable energy sources to create highly efficient energy production & storage systems to reduce long-term energy costs.

Geothermal-Microgrid Applications & Energy Solutions using IPSEXERON



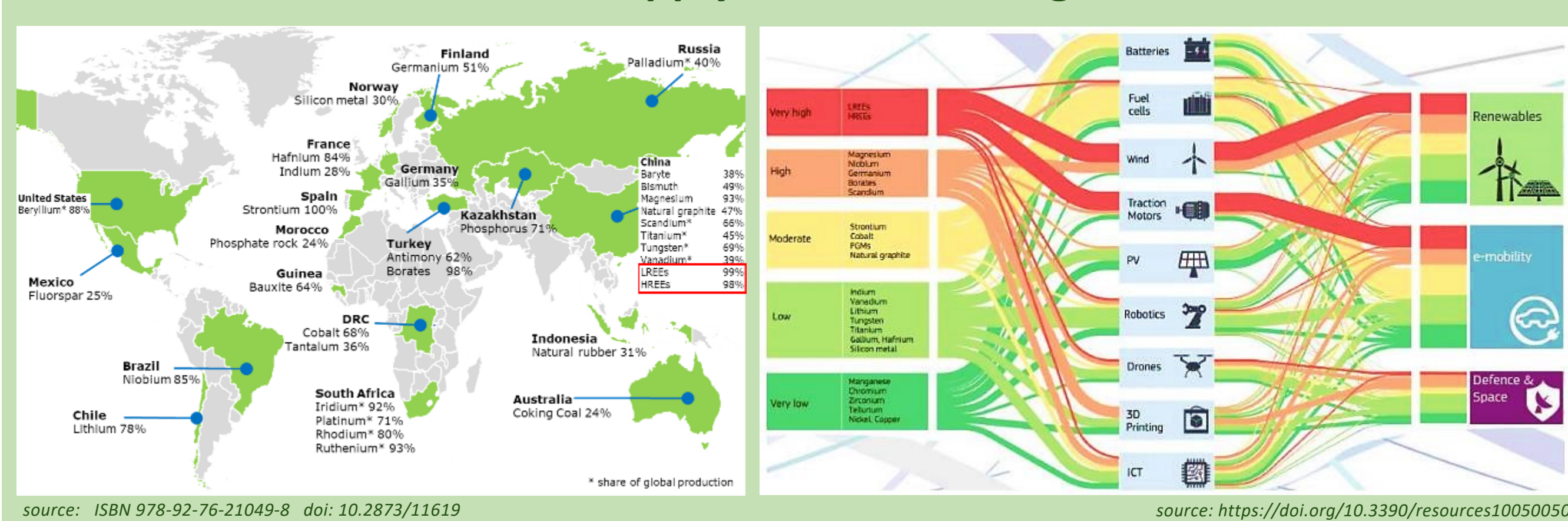
IPSEXERON is a transformative energy accelerator for renewable energy-BESS-H2 MICROGRID architectures, it is a power conversion and energy management technology developed by IPS and patented in USA.

Critical Raw Materials ('CRM's) are economically important raw materials that have a high supply risk. Critical raw materials are essential to the function and integrity of a wide range of industrial sectors. The future security and resilience of these sectors is anchored to continued diversified and undistorted access to global markets and increasingly, a shift to greater strategic autonomy to create a more open, diverse and resilient global supply chain.

Terroleum UGC Limited & Pangea Filtration Technology™ are leveraging our collective innovative knowledge of global CRM research to develop a global solution for the commercial extraction of Rare Earth Elements ('REE's) from coal mining regions. The final R&D step for this solution is to identify a suitable mine-location(s) in the USA or Europe to construct a pilot REE processing facility. To confirm the technology is investment-ready an industry scale roll-out.

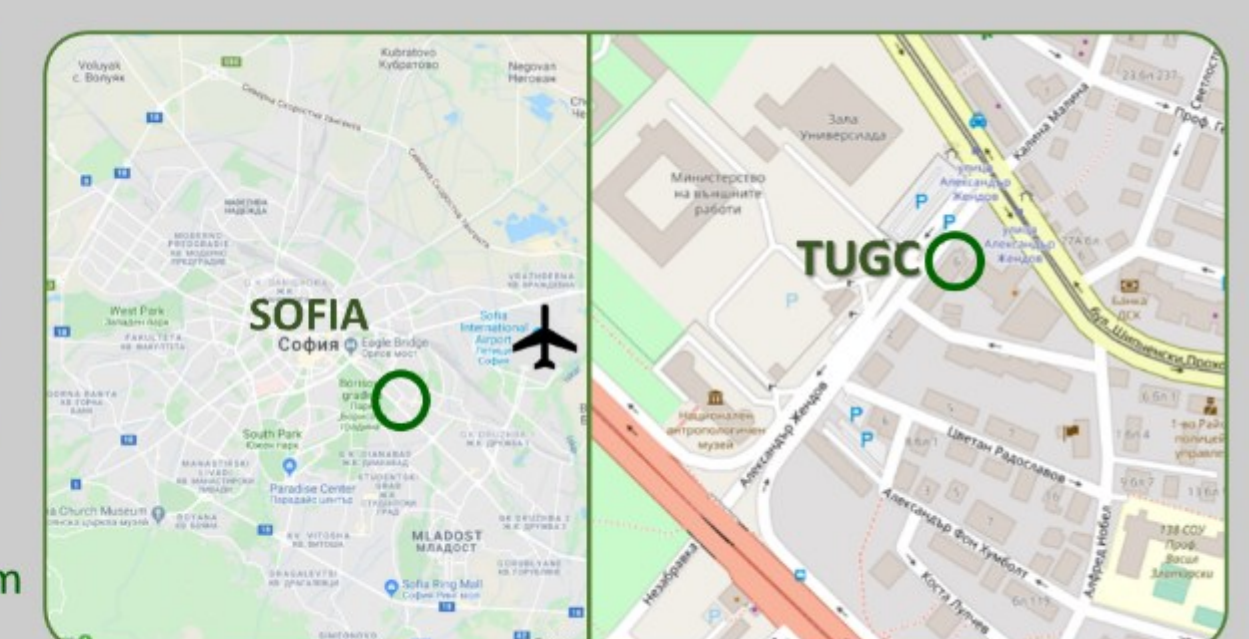
One focus area to find a suitable site for a pilot facility is the coal mining regions of Bulgaria & surrounding EU counties of Southeast Europe. The EU is offering significant funding for R&D consortiums who can deliver cross-sector, 'hybrid' geothermal energy + REE extraction + energy storage (thermal, pressure, gravity) projects to re-use, rehabilitate and rejuvenate coal regions & also re-utilize existing power networks and replace coal-fired power plants with dispatchable renewable energy solutions.

CRM Global Sources & Supply Risks to Strategic Industrial Sectors



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