

Helping you to decarbonise at scale

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CO₂ $\downarrow \downarrow \downarrow \downarrow$ Carbon storage

Critical minerals

Unlocking the subsurface potential to decarbonise at scale

> Energy storage

There has never been more focus on the need to decarbonise operations. You've made the quick fixes, but after these early wins you're perhaps now wrestling with how to make further progress and a bigger impact to your net zero ambitions.

The answer could be below your feet...

We can help you decarbonise your operations in a practical way by unlocking the Earth's subsurface potential.

Our Decarbonisation Solution applies our unique, best-in-class global geoscience information and analysis

to rapidly screen your operational footprint for decarbonisation potential, whether your requirement is for a global portfolio analysis or a site specific integrated optimisation.

The detailed reports and dashboards we supply identify, rank and highlight the best opportunities for you to decarbonise your operations with geothermal energy, carbon sequestration, storage of green energy, or to secure your critical minerals supply, all helping you make significant progress toward your net zero and sustainability goals.

We understand the subsurface, so that you don't have to.





Geothermal energy



Need low carbon heat or power for industrial or commercial purposes?

Geothermal

A source of clean energy, available 24/7, it can provide either electricity or heat.

A geothermal plant on location will provide energy security and peace of mind, helping you avoid price fluctuations. After initial investment, geothermal has a very low operating cost, a small surface footprint and a 30-year plus lifespan.

Getech solution

We provide global screening and sitespecific feasibility appraisal. We know where to find geothermal energy and we can advise on your best route to adopt and scale it.

Benefits

Available 24/7 and dispatchable:

Geothermal energy is always available, and therefore it can be an excellent base-load source. Geothermal facilities can be switched on/off as required, unlike solar and wind – which means it can also help with peak load requirements.

Provides security and avoids volatility of price fluctuation:

Geothermal energy is theoretically available everywhere. This means that reliance on the grid or third-party energy suppliers can be mitigated. Also, having your own geothermal source ensures highly predictable energy prices.

Very low operating and competitive

costs. Independent benchmarking shows that the Levelized Cost of Electricity (LCEO) from geothermal is on par with solar and wind when considering the energy storage costs for the latter (as supply and demand are often not aligned). After the initial capital investment, the operating costs of a facility is low, and a plant can run for many decades. Industrial operations creating emissions?

Carbon storage

The ideal location for storing carbon might be directly below or near the CO2 generating facility.

Determining if that is a valid option requires an intimate understanding of the subsurface. The proven technology of deep underground carbon storage ensures large amounts of Scope 1 emissions never reach the atmosphere.

Getech solution

We identify where carbon emissions can safely be stored, and how that storage facility will evolve through time as your operations evolve. Once stored, we help monitor the subsurface to ensure the CO2 remains where it is supposed to be.

Benefits

Proven method to remove large volumes of CO2 at its source: Carbon capture and storage (CCS) has already demonstrated it can mitigate the impact of CO2 from a wide range of industrial processes by permanently storing it in geological formations. The International Energy Agency estimates that CCS could be responsible for removing as much as 20% of total CO2 emissions from industrial and energy production facilities.

Enables businesses that are otherwise hard to decarbonise to reach net **zero:** CCS allows the CO2 from hard to abate processes, such as cement production, to be stored and become net zero. In addition, CCS enables carbon negative solutions such as BECCS, which is the production of bioenergy using biomass, coupled with the harvesting and subsequent storing of carbon dioxide, and DACS, which is Direct Air Capture of CO2 and subsequent storage.



The cost of CO2 reduction

is low from an end customer perspective. The costs of CCS have traditionally been looked at from the industrial plant perspective. However, when looking at the overall costs from the end-user, they are low. A 1% increase in cost of a product may enable a 50% reduction in CO2 emissions.

Critical minerals

Need materials for renewables tech or manufacturing and facing supply chain uncertainty?

Critical minerals such as cobalt, lithium, graphite, neodymium, copper, zinc and lead are used in everything from batteries to electricity networks and are essential components for renewable power, electric vehicles and manufacturing.

Getech solution

We locate natural resources so you can secure your supply chain. Through advanced analytics, AI and decades of data collection we identify the resource sweet spots, improve cost control and your ESG standards. You may also be able to benefit from local government incentives.

Benefits

Reduces exposure to supply chain disruptions: Embedding multisourcing strategies in supply chains builds resilience to shifting geopolitical situations and unexpected macro events. With the heavy dependence on a handful of countries, some with political instability, this is an area to increase control for sourcing your metals and minerals.

Improves cost control and ESG

standards: Moving upstream in the extraction of raw materials reduces exposure to swings in prices, and mitigates risks with the increasing scrutiny on environmental and social conditions of mining operations.

Benefit from local government

stimulus: Thanks to government stimulus it may be highly beneficial to source minerals from certain countries. For example, the Inflation Reduction Act provides 40% tax credits for Electric Vehicles if critical minerals in the vehicle are sourced from the US, or a country with which it has a free trade deal.

These drivers are why companies such as Mercedes, Tesla and Siemens are investing to directly source key materials such as lithium.



Need to store energy for future use?

Subsurface energy storage

Many renewable energy sources are not always on, so closing the gap between supply and demand is important.

Excess energy can be stored after production underground for when you need it, saving you money, improving reliability and reducing environmental impacts.

Getech solution

Our geoscience expertise and exclusive access to the world's largest subsurface database means we can advise you on the type and most optimal energy storage solution for your business.

Benefits

Managing costs: The increasing penetration of intermittent renewables such as wind and solar with their inherent weather dependency boosts volatility, which can cause rapid price changes. Energy storage can reduce costs by storing low-cost energy and using it later, during peak periods at higher electricity rates.

Reducing environmental impacts: Energy storage enables electricity to be saved for later, when and where it is most needed. It thereby can help integrate more solar, wind and

distributed energy resources. It avoids these having to be curtailed, and mitigates the need for building new pollution-emitting peak power plants.

Improving reliability and resilience: Grid volatility rises due to the increased wind and solar dependence; this increases the risk and costs of outages. Storage provides uninterrupted power to you, whenever and wherever you need it.

How does Getech do this?

We carry out this analysis for organisations ranging from world leading fast moving consumer goods to global energy companies.

Getech has a proven workflow to help companies decarbonise operations.

- Our first step is a high-level screening to create a shortlist of the locations with the highest potential. We do this for one or all of the decarbonisation solutions we offer and can include existing facilities and potential future locations. We have the data and skills to do this as a desktop study with no further data acquisition needed, and a quick turn-around time.
- The shortlisted sites are then further analysed during a pre-feasibility study to validate the attractiveness. We rank locations based on the value drivers of our customer.
- Together with our implementation partners (specialised in development of each of our decarbonisation solutions), we subsequently conduct a comprehensive feasibility study to help you make a balanced investment choice.

At the completion of each stage, we provide a comprehensive report and clear visuals to support your decision making.

We also utilise algorithms that combine a wide range of decarbonisation solutions to find the most optimal integrated solution for each specific location.



About Getech

Blending unique earth science data with advanced analytics and AI, we locate the essential energy and mineral resources for the energy transition.

We can help you make informed choices to decarbonise your operations at scale.

A recent benchmark study by Climate Action 100+2 showed that just 17% of businesses had set medium-term reductions targets in alignment with the 2015 Paris agreement: the international treaty on climate change, despite almost 70% committing to net zero emissions by 2050.

We are the world-leading locator of subsurface resources.

Combining:	Par
• The world's most complete subsurface data	• The min
• Geoscience expertise, understanding and interpretation	• Cor sup

- Al-driven analytics and data science
- Extensive GIS capabilities

-tnering with:

e world's leading energy and neral resource companies

rporate and industrial oply chains

• Leading technology and data suppliers and project developers



Find out how we can help you decarbonise at scale

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