

# Future50

Energy

Renewable Energy Generation



Eden GeoPower Inc



<https://www.edengeopower.com>

#ClimateTech

## Highlights

Eden GeoPower indicates that it holds three approved patents for “**System and Method for Pulsed Electrical Reservoir Stimulation (ERS)**”,<sup>86</sup> which involves a method to increase reservoir permeability through pulsed electrical stimulation for petroleum and geothermal applications without requiring pumping of material into the subsurface. The company notes that it has also filed four additional patents for ERS technology, and that it has an additional pending patent involving **ERS for geologic hydrogen recovery**.

Eden GeoPower indicates participating in several acceleration programmes, including a few with the **Massachusetts Institute of Technology (MIT)**.<sup>87</sup> The company states that it has received US\$12 million through multiple grants and raised over US\$13 million in equity investment.<sup>88</sup>

Eden GeoPower has also signed an MoU with Oman’s Ministry of Energy and Minerals (MEM) for deployment in a carbon capture and mineralisation project.<sup>89</sup>

## Strategic alliances:

- Eco-Company
- University
- Research Institutes
- Businesses

## List impact technologies:

Carbon Capture, Usage and Storage, Green Hydrogen Production, High-Efficiency Heating and Cooling, Geothermal, Orange Hydrogen

## Headquarters:

Saudi Arabia

## Middle East operational countries:

Oman, United Arab Emirates

## Summary

Eden GeoPower is on a mission to make the scalable and **sustainable extraction of earth’s geothermal heat and natural resources** possible. It seeks to enable sustainable mining, carbon capture and sequestration (CCS), and carbon mineralisation.

## Impacts

Eden GeoPower suggests that it has enabled an energy development previously non-existent in the region – **geothermal power**.<sup>85</sup> It notes likewise advocating for geothermal development and carbon sequestration, and spending four years gaining traction.

The company indicates that its solution can be completely powered by renewable energy while generating **zero emissions** and has ambitions to use its technology to generate ‘orange hydrogen’, a cutting-edge method of producing hydrogen.

