

Research and development projects on climate issues

The Reykjavik Energy Group has been at the forefront of innovation and development on climate issues over the past decade

Examples of projects developed in cooperation with the academia and have been implemented at the Reykjavik Energy Group:

- Footprint-free production of geothermal energy. Reykjavik Energy and its partners recently received a grant of over ISK 2 billion from the EU's horizon 2020 research and innovation programme. The grant went to the GECO (Geothermal Energy and Climate Outlook) project. The project is mostly founded on the CarbFix reinjection method. Through the GECO project, the CarbFix method will be developed even further and reinjection into four types of bedrock will be conducted to see if it works as well there as it has done in Icelandic basalt.
- Experiment to permanently remove carbon dioxide from the atmosphere in Hellisheidi: A cooperation project between the Reykjavik Energy Group and the Swiss company Climeworks and universities on both sides of the Atlantic. This experiment is part of the CarbFix2 project which also received a substantial grant from the EU's Horizon 2020 research and innovation programme.
- Experimentation in the production of hydrogen at Hellisheidi as an energy source for heavy-duty vehicles, machinery, ships and aircraft. This is a development project under the auspices of the EU's Hydrogen Mobility Europe (H2ME) programme.
- The energy switch in transport in Iceland is a cooperation project between Reykjavik Energy and its subsidiaries ON Power, Veitur Utilities and the Reykjavik Fibre Network. Part of the project consists of providing advice to those seeking greater detail when switching over from a conventional car to an EV or hydrogen vehicle.
- Stimulation of a geothermal well in Geldinganes in collaboration with the DESTRESS project, which is funded by the EU's Horizon 2020 research and innovation programme, with a view to increasing hot water production capacity. The so-called traffic light system will be enhanced to monitor and respond to any slight seismic activity in the area that could potentially accompany the stimulation measures.