

Wind power, photovoltaics and geothermal energy are being built on former oil and gas fields

ONEO presents first conversion concepts

Hanover, 30 May 2022. Just six months after its strategic realignment, the energy company ONEO has now developed its first projects to repurpose oil and gas production facilities for sustainable energy generation. Photovoltaic, wind power and geothermal projects are being built where the original oil and gas production has ceased.

“We represent a completely new recycling philosophy in our industry. ONEO does not regard decommissioned plants and extraction fields as a “burdensome baggage” that must be secured and renatured. For us, this infrastructure is rather a future opportunity to implement regenerative energy projects quickly”, said Felix Lerch, CEO of ONEO.

At the same time, the remaining oil and gas production will be optimised, for example through the electrification of production facilities. This minimises the company’s CO₂ footprint.

Felix Lerch: “This transformation of production sites in the oil and gas industry into locations for renewable energies is an important contribution to the energy transition. Our conversion concepts are technically feasible, economically profitable and in many cases quickly implemented. We have already achieved a lot in a very short time. The potential I see for the coming years is enormous.”

About the projects in detail:

Geothermal energy and photovoltaics at the Landau/Pfalz site

ONEO already supports the heating of the municipal swimming pool by operating a geothermal borehole. The concept is based on a heat-conducting medium that is transported through pipes in the borehole. The geothermal temperature in the borehole heats the medium, which is then pumped to a heat exchanger at the swimming pool and, together with a heat pump, provides up to approximately 500,000 kWh per year.

In addition, ONEO has identified five borehole sites in Landau that are suitable for the installation of photovoltaic systems following a technical assessment. Together, the five sites offer an installation capacity of approximately 500 kWp. They are connected to a substation and thus already have access to the electricity grid, which is often a challenge for PV projects. Preparations for the installation of PV systems on the first two well sites are underway, and the project is expected to be completed this year.

Photovoltaics and wind power in Suderbruch, Lower Saxony

In Suderbruch, ONEO has investigated the wind and solar potential of a 10,000 m² former drilling site. The area is sufficient for the installation of almost 2,800 PV modules with a capacity of over 800 kWp. Using current planning guidelines, the south-eastern corner of the drilling site could also

be suitable for a wind turbine. This turbine would generate 13,500 - 14,00 MWh per year with a turbine capacity of 4.2 MW and a wind speed of 8.09 m/s at a hub height of 131 m. The further steps towards conversion in Suderbruch will be carried out in close coordination with all parties involved.

Geothermal energy in Ampfing, Bavaria

ONEO is working with the municipality of Ampfing to develop a geothermal project reusing existing boreholes. The project appears promising as the drilling data indicate a favourable geothermal gradient of 4K/100m. With a production rate between 80 l/s and 100 l/s, calculations indicate a geothermal capacity between 19 MW and 24 MW.

In cooperation with the municipality of Ampfing, ONEO commissioned a feasibility study to determine the heat demand. This was carried out by the Landshut University of Applied Sciences. The study documents the heat consumption in the area and designs a potential heat network for it. The study assumes a heat network with a length of 49 km and a total heat consumption of over 63,000 MWh. ONEO is currently in talks with the municipality of Ampfing to coordinate the next steps.

Electrification of the Lauben production facility, Bavaria

In Lauben, ONEO is working to electrify its production facility and replace a CO₂-intensive diesel generator. The project consists of a 20kV underground cable with a length of 1,250m. It will be carried out by Lech Elektrizitätswerke (LEW) and is expected to be completed in the third quarter of 2022. The investment will reduce CO₂ emissions at the site by 145 t per year.

"We look forward to identifying and developing many more projects. Because safe and affordable domestic energy production that is low in CO₂ and sustainable is both a drive and an incentive for us", says Lerch.

About ONEO

ONEO is an energy company based in Vienna and Hanover that develops and implements innovative concepts for sustainable energy production based on existing oil and gas production infrastructure. With its three business areas Production Optimisation, Deconstruction and Renaturation, and Sustainable Solutions, ONEO has committed itself to contributing to the energy transition. ONEO is an independent company under the umbrella of the investment company Shorelight Partners (Shorelight). Shorelight invests in assets and technologies that deliver significant and measurable reductions in CO₂ emissions. To this end, Shorelight works with companies along the entire energy value chain in Europe. Specific areas of interest include the reuse of conventional energy infrastructure, electrification and gasification, grid resilience and advanced biofuels.

For more information please visit the homepage at www.oneo.eu.



Press release

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