

nGEL kick-off meeting: redefining power, heating, and cooling



Manchester, United Kingdom Oct 15, 2024 ([IssueWire.com](https://www.issuewire.com)) - On July 4th, the "Next Generation Flexible Trigeneneration Geothermal ORC Plant" (nGEL) Project consortium marked a significant milestone, the project kick-off meeting held in Bochum, Germany.

The nGEL Project is a joint initiative of seven organisations and will be funded under the European Union's Horizon Europe programme for the next four years. The coordinator of the project is The Fraunhofer Gesellschaft, supported by the beneficiary partners, Vlaamse Instelling Voor Technologisch Onderzoek N.V., Zorlu Enerji Elektrik Uretim, Geolorn Ireland Ltd., Repg Energy, Naldeo Technologies Et Industries; and Technovative Solutions Ltd. as the associate partner. The budget of the nGEL Project is almost 6M Euro.

The project aims to transform the geothermal organic ranking cycle (ORC) plants into flexible tri-generation plants capable of efficiently and cost-effectively responding to the dynamic demand of power, heating, and cooling. It attributes geothermal energy as a dispatchable source to balance the power and thermal grid against the progressive integration of intermittent Renewable Energy Sources (RES).

With the implementation of the nGEL technology in all of the existing ORC plants in the EU, around 215 TWh of heat can be delivered to the thermal grid. This is approximately 4% of the EU's current annual heat demand, corresponding to annual economic savings of €9.6 billion/year.

nGEL is a 4-year long project funded by the Horizon Europe Framework Programme (HORIZON) Research and Innovation Actions under grant agreement No 101148170 under the call: "Horizon-CL5-2023-D3-02 (Sustainable, secure and competitive energy supply)".

To learn more about the project, visit: www.ngel-geothermal.eu

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