

PRESS RELEASE

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



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On July 4th, the "Next Generation Flexible Trigeration 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 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 rankine 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).



Smart Use of Geothermal Energy

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 current annual heat demand, corresponding to annual economic savings of €9.6 billion/year.

nGEL is a 4-year long project being 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 know more about the project, visit: www.ngel-geothermal.eu

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