NGEL CONNECT: FROM CORE TO GRID

Newsletter Vol.1 - Nov 2025

nGEL
Smart Use of Geothermal Energy
ESG

Highlights

The nGEL Kick-off Meeting was Held Successfully!

On July 4th, 2024, the **Next Generation Flexible Trigeneration Geothermal ORC Plant (nGEL)** Project consortium marked a significant milestone, the project kick-off meeting held in Bochum, Germany.

Read More

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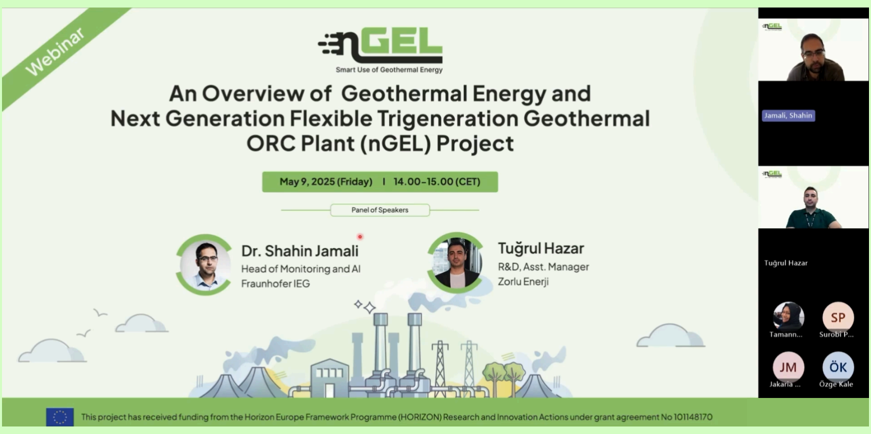
nGEL Webinar: the Future of Flexible Trigeneration Geothermal ORC Plant Explored



Webinar

nGEL

Smart Use of Geothermal Energy

An Overview of Geothermal Energy and Next Generation Flexible Trigeneration Geothermal ORC Plant (nGEL) Project

May 9, 2025 (Friday) I 14.00-15.00 (CET)

Panel of Speakers

Dr. Shahin Jamali
Head of Monitoring and AI
Fraunhofer IEG

Tuğrul Hazar
R&D, Asst. Manager
Zorlu Enerji

This project has received funding from the Horizon Europe Framework Programme (HORIZON) Research and Innovation Actions under grant agreement No 101148170

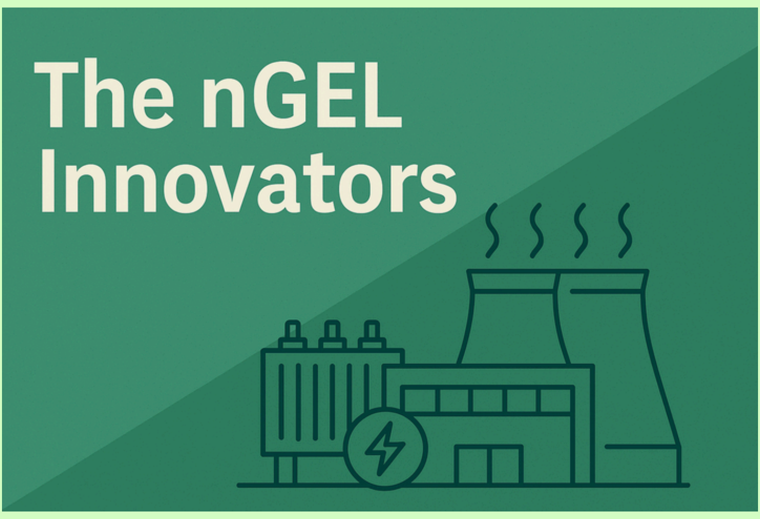
Jamali, Shahin
Tuğrul Hazar
Tamann...
SP
Surobi P...
JM
Jakarla ...
ÖK
Özge Kale

The **nGEL** project hosted its inaugural webinar on 9 May 2025, titled “An Overview of Geothermal Energy and Next Generation Flexible Trigeneration Geothermal ORC Plant (nGEL) Project”. More than 50 energy professionals gathered to know about the project’s objectives, methodologies, and anticipated outcomes from Dr Shahin Jamali, the coordinator of the nGEL project and the Head of Monitoring and AI at **Fraunhofer IEG**, and Tuğrul Hazar, the Technical Manager of the nGEL project and R&D, Asst. Manager at **Zorlu Enerji**, live.

Watch Here

nGEL Blogs

The **nGEL** project is a collaborative journey towards a more sustainable energy future. To showcase the organisations driving this mission, we have published a blog series titled “The nGEL Innovators”, introducing the key partners of the project.


The nGEL Innovators

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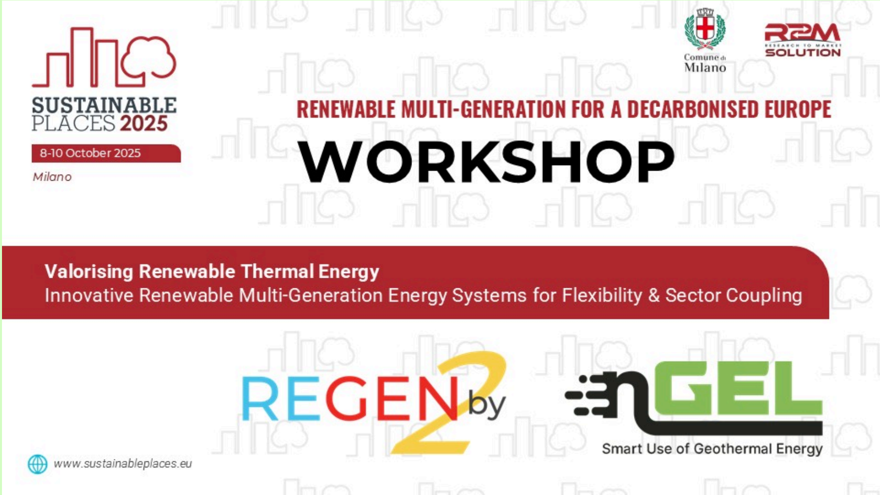
Past Events

nGEL Review Meeting

The Review Meeting of the nGEL project was held on 26-27 November, 2025, in Berlin, Germany. The meeting was hosted by **Fraunhofer,** one of our key partners. All of our consortium members attended the meeting to discuss the updates of the project.

The nGEL Project Conducted an Online Workshop at Sustainable Places 2025


SUSTAINABLE PLACES 2025
8-10 October 2025
Milano
Comune di Milano
R2M SOLUTION
RENEWABLE MULTI-GENERATION FOR A DECARBONISED EUROPE
WORKSHOP
Valorising Renewable Thermal Energy
Innovative Renewable Multi-Generation Energy Systems for Flexibility & Sector Coupling
REGEN by 2
nGEL
Smart Use of Geothermal Energy
www.sustainableplaces.eu

The **nGEL** and the **REGEN-BY-2** projects jointly conducted an online workshop, "Innovative renewable multi-generation solutions for a decarbonised Europe", on 10 October, 2025, in the **Sustainable Places 2025 (SP25).** Collaboratively arranged by Research to Market Solutions and Comune di Milano, the conference was held in Milano, Italy, from 8 to 10 October, 2025. The attendees had an insightful discussion on both the projects and how their solutions are playing roles in decarbonising Europe.

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The First General Assembly of nGEL was Held in Türkiye

Zorlu Enerji hosted the first General Assembly of the **nGEL** project on 3-4 July, 2025, in the Kızıldere-I & Kizildere-II Geothermal Power Plants premises, located in the Sarayköy district of Denizli province, in southwestern Türkiye. The consortium partners attended the assembly to participate in work package presentations, a workshop, a site visit, working sessions, and other collaborative activities.

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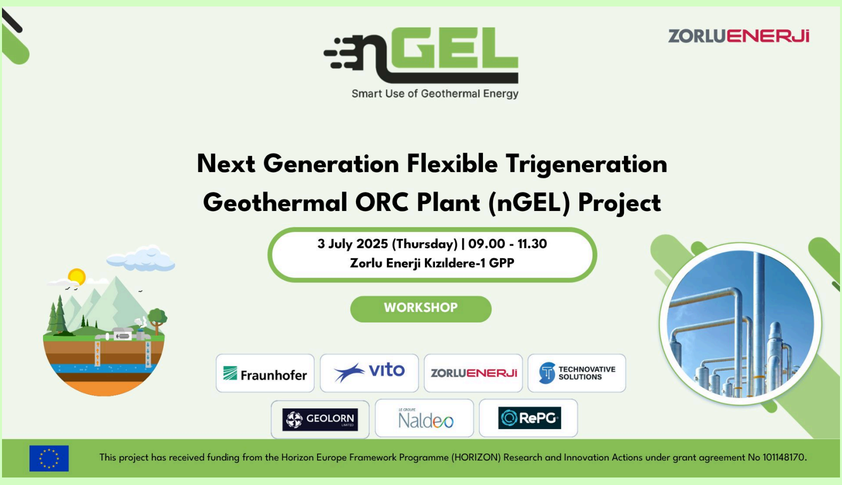
nGEL-smart use of Geothermal Energy: Stakeholders' Workshop


nGEL
Smart Use of Geothermal Energy
ZORLUENERJI
Next Generation Flexible Trigeneration
Geothermal ORC Plant (nGEL) Project
3 July 2025 (Thursday) | 09.00 - 11.30
Zorlu Enerji Kızıldere-1 GPP
WORKSHOP
Fraunhofer
vito
ZORLUENERJI
TECHNOVATIVE SOLUTIONS
GEOLORN
Naldeo
RePG
This project has received funding from the Horizon Europe Framework Programme (HORIZON) Research and Innovation Actions under grant agreement No 101148170.

Our consortium partner **Zorlu Energy** hosted an exclusive workshop focused on the **nGEL** project on July 3, 2025 in Türkiye. The session offered a unique opportunity for invited stakeholders to engage directly with consortium partners and gain valuable insights about the project's goals, methodology, implementation strategies, and expected outcomes.

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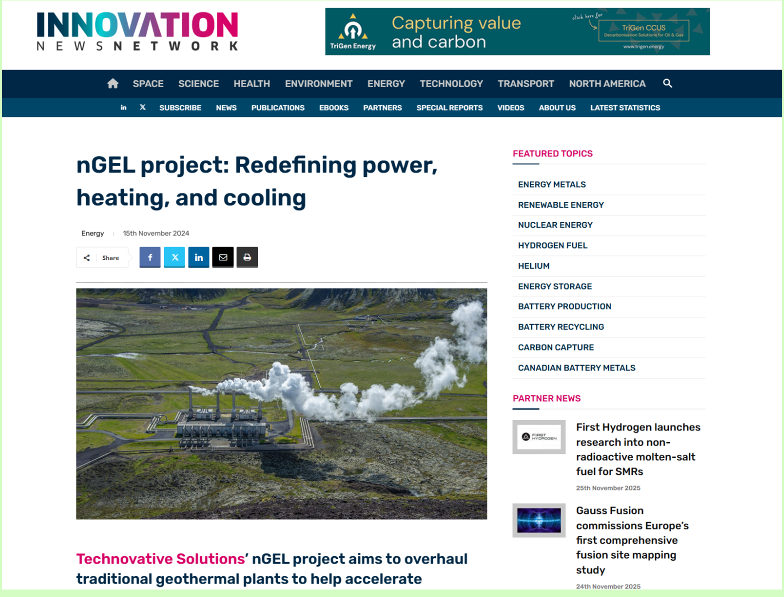
Mentions

We were featured on multiple industry-focused news platforms. These recognitions highlight the project's innovative approach to transforming geothermal energy and accelerating global decarbonisation efforts for a more sustainable future.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nGEL project: Redefining power, heating, and cooling

Energy | 15th November 2024

Technovative Solutions' nGEL project aims to overhaul traditional geothermal plants to help accelerate

FEATURED TOPICS

- ENERGY METALS
- RENEWABLE ENERGY
- NUCLEAR ENERGY
- HYDROGEN FUEL
- HELIUM
- ENERGY STORAGE
- BATTERY PRODUCTION
- BATTERY RECYCLING
- CARBON CAPTURE
- CANADIAN BATTERY METALS

PARTNER NEWS

First Hydrogen launches research into non-radioactive molten-salt fuel for SMRs
25th November 2025

Gauss Fusion commissions Europe's first comprehensive fusion site mapping study
24th November 2025

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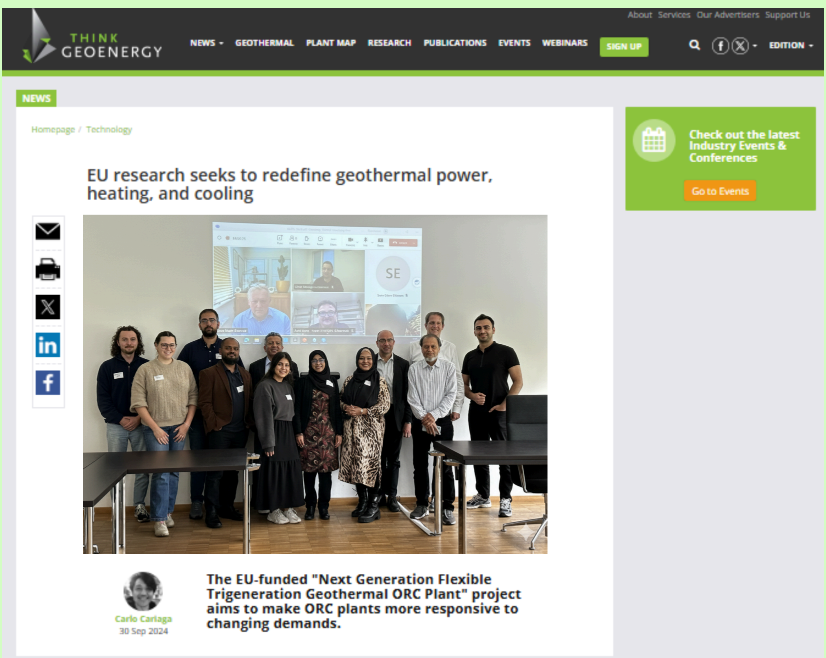
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EU research seeks to redefine geothermal power, heating, and cooling

Carlo Cariaga
30 Sep 2024

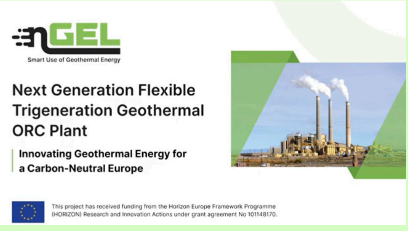
The EU-funded "Next Generation Flexible Trigeneration Geothermal ORC Plant" project aims to make ORC plants more responsive to changing demands.

Read the Article

We also got featured in the news section of **FlexGeo**'s website, one of our sister projects, as Tuğrul Hazar, the Technical Manager of the nGEL project and R&D, Asst. Manager at **Zorlu Enerji**, gave a presentation at the Second General Assembly of the FlexGeo project.

Read the Article

Videos


nGEL
Smart Use of Geothermal Energy
Next Generation Flexible Trigeneration Geothermal ORC Plant
Innovating Geothermal Energy for a Carbon-Neutral Europe
This project has received funding from the Horizon Europe Framework Programme (HORIZON) Research and Innovation Actions under grant agreement No 101148170.

Know nGEL!
Through this video, discover how the technology can be implemented in all of the existing ORC plants in the EU, around 215 TWht heat can be delivered to the thermal grid, which is approximately 4% of the EU current annual heat demand, which corresponds to annual economic saving (on NG import) of € 9.6 billion/year.

Watch the Video!

Unsubscribe | Contact

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