

SÉMINAIRE ÉNERGIE – ENVIRONNEMENT
Conférences 2026 - 2027

**RegEWS - Feasibility study on reducing the space
requirements of large geothermal borehole field for
thermal networks**

Florian Ruesch
(OST)

Jeudi 1^{er} octobre à 17h15

**Université de Genève
66 Boulevard Carl-Vogt, 1205 Genève
Salle 1 (rez-de-chaussée)**

Conférence en présentiel suivie d'un apéritif

**Diffusion en direct avec Zoom : <https://unige.zoom.us/j/61252271988>
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L'orateur

Florian Ruesch: (Co-Team Leader, OST) : Florian Ruesch is a physicist and Co-Head of the Buildings and Thermal Networks Group at the SPF Institute for Solar Technology, OST Eastern Switzerland University of Applied Sciences.

For more than 15 years, he has been conducting research on solar energy systems and the integration of renewable energy and thermal storage into thermal networks. His work focuses on the modelling and optimization of borehole heat exchanger fields, their integration into energy systems, and innovative regeneration concepts.

La conférence

The district heating concept “SaisonLink,” developed by Werke Wallisellen and OST as part of the RegEWS project, combines the use of surplus summer waste heat from the Hagenholz waste-to-energy plant with a large-scale Borehole Thermal Energy Storage (BTES) system and central heat pumps.

By using high-temperature waste heat for BTES regeneration and ambient air as an additional heat source during moderate temperature conditions, the required number of boreholes could be reduced by more than a factor of five compared to the original concept. This significantly improved the economic viability of the project.

Detailed planning activities are currently underway, and the implementation is planned to start in 2028. Total investments are expected to reach CHF 100 to 150 million by 2035.