

Large scale heat pumps and geothermal energy – an ideal couple for a greener heating scenario

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While climate change and security of supply are calling for substantial investment and innovation to drive the energy transition, the heating sector still relies heavily on fossil fuels.

However, technological advancements in geothermal energy exploration have increased the feasibility and affordability and hence the attractiveness of geothermal heating.

Likewise large scale heat pumps are experiencing increased attention and political support to become a key element to greenify Europe's district heating networks and industry.

The complementarity of heat pumps with renewable heat generation technologies such as geothermal but also solar and waste heat recovery allows for a wide range of application for very large heat pumps.

The presentation features interesting configurations and benefits of large industrial heat pumps in combination with geothermal energy as well as with a variety of processes within the oil and gas industry.