Feasibility study High Temperature-Aquifer Thermal Energy Storage (HT-ATES) AVR DUIVEN

Publieke samenvatting / Public summary

Aanleiding

At two locations (Rozenburg and Duiven), AVR is supplying heat to local district heating networks. In order to optimize the mismatch between supply & demand of heat , AVR and TNO will investigate the feasibility of a large scale (~20MW), high temperature (>140OC) Aquifer Thermal Energy Storage (HT-ATES).

Doelstelling

To develop an initial design including a set of boundary conditions for the integration of HT-ATES with an existing district heating system and heat source. There is no existing legal framework for HT-ATES. Therefore competent authorities are willing to support the realization of a large demo project to develop regulatory guidelines to pave the way for future projects.

Korte omschrijving

Depending on the outcomes, this feasibility study can lead to a detailed engineering & design study and permit application (process) in order to realize a large-scale energy storage demonstration project to be integrated in the existing district heating system in the Arnhem region.

Projectinformatie / Project information

Projectnummer / Project number
TESIS15020
Subsidiebedrag / Grant amount
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Algemene informatie / General information

Penvoerder / Secretariat
TNO Kwaliteit van Leven

Publicaties en materialen / Publications and attachments

- **21.06.2018**

  Eindrapport TESIS15020

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