Thermal energy storage brussels

Overview

Shallow open-loop geothermal systems function by creating heat and cold reserves in an aquifer, via doublets of pumping and reinjection wells. Three adjacent buildings in the center of Brussels have adopted this type of aquifer thermal energy storage (ATES) system. Featured Application: This work evaluates by numerical simulations the respective influences of three ATES systems located in two different aquifers in the center of Brussels. Policy recommendations are also discussed. In 2021, renewable energy made up 37% of the EU's electricity mix, and. A first shallow open-loop system (ATES) with pumping and reinjection wells in Cenozoic mixed sandy and silty shallow formations was started in 2014 in the center of Brussels for heating and cooling an important building.

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Studying interactions of five adjacent Aquifer Thermal Energy ...

systems (ATES) were studied and installed in two overlaying aquifers in the center of Brussels. For two of them, operations started in 2014 and 2017 resp.

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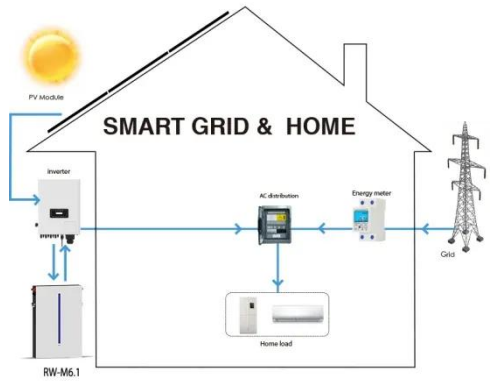

confined aquifer in Brussels where two Aquifer Thermal Energy Storage (ATES) systems were ...

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