

Belgian high temperature energy storage system

Are there financial incentives for thermal energy storage systems in Belgium?

In Belgium financial incentives for thermal energy storage systems such as ATES, BTES, etc. are rather low and often not existing or not available in the sector where the technique is going to be applied eg. hospitals are often excluded from financial support programs.

What is Brenmiller Europe sensible heat storage?

Brenmiller Europe Sensible heat storage using crushed rock is a cost-effective solution for high-temperature heat storage. This system supports large-scale energy storage of 10-100+GWh at an incremental cost of \$2-4/kWh, suitable for producing steam for electricity, hot water, or industrial hot air.

Are aquifer storage and borehole storage commercially available in Belgium?

Two UTES concepts are now commercially available on the Belgian market: the ATES (aquifer storage) and the BTES (borehole storage). Only these two concepts are discussed in this paper.

Can a new aquifer thermal energy storage system be implemented in Wallonia?

5. Conclusions We presented a new aquifer thermal energy storage system that will be implemented in the Meuse alluvial aquifer in Wallonia (southern Belgium). A transient simulation was run over a 25-year period, and potential thermal impact on the aquifer was assessed.

Can aquifer thermal energy storage system be used for long-term thermal energy production?

While the results show some thermal feedback within the wells of the aquifer thermal energy storage system and heat loss to the aquifer, the thermal affected zone in the aquifer extends up to 980 m downstream of the building and the system efficiency seems suitable for long-term thermal energy production.

What is a high temperature storage material?

The main technological innovation of the company relies on the developed high temperature storage material in the form of purposely produced pellets or bricks, with high heat capacity and thermal conductivity.

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