

# Berlin air-cooled energy storage solution



## Overview

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This innovative German company has created a device that stores surplus renewable energy as high-temperature heat, making it available on-demand as steam or hot water. For Berlin, the scientists see a need for action in terms of land availability, legal uncertainties in the approval process and a need for information on geological. Berlin's shared energy storage power stations are transforming how cities manage renewable energy. In the energy self-sufficient village of Feldheim (Brandenburg), private local heating and electricity. They can store extra heat during the summer months and use it in winter when demand is higher. With the right type of storage, specifically aquifer heat storage, Berlin can become less dependent on fossil fuels and ease pressure on the power grid.

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Seasonal heat storage systems help to shift excess heat from summer to times of higher heat demand in winter. There are different types of storage systems for this. The scientists consider aquifer heat ...



## AQUIFER THERMAL ENERGY STORAGE FOR THE

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The geological conditions on the site (cf. Figure 1) allow the integration of aquifer heat and cold stores in order to achieve this target, balancing in this way temporal discords of energy



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