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Thermal management of an unconsolidated shallow urban groundwater body. Abstract. This study presents the development of tools for the sustainable thermal management of a shallow unconsolidated urban groundwater body in the city of Basel (Switzerland). The concept of the investigations is based on (1) a characterization of the present thermal state of the urban groundwater body, and (2) the evaluation of potential mitigation measures for the future thermal management of specific regions ...

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With the advent of intensive shallow geothermal energy use, a vivid discussion of the ecological as well as economic sustainability of the intensive thermal use of the shallow subsurface has arisen. Since groundwater represents the major source of drinking water in many European countries (Margat and van der Gun 2013), there is regulatory concern for any negative effects in regards to groundwater quality.

Monitoring the impact of intensive shallow geothermal ...

The thermal conductivity of shallow ground is a key parameter for the installation of GSHPs and is directly related to the area of the heat exchanger. In this study, the linear heat source model (Eskilson, 1987; Hellström, 1991) was adopted to analyse the test data in situ.

Thermal conductivity characterisation of shallow ground ...

Aquifer thermal energy storage (ATES) is the storage and recovery of thermal energy in the subsurface. ATES is applied to provide heating and cooling to buildings. Storage and recovery of thermal energy is achieved by extraction and injection of groundwater from aquifers using groundwater wells. Systems commonly operate in a seasonal mode.

Aquifer thermal energy storage - Wikipedia

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