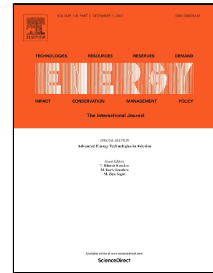


# Accepted Manuscript

Ground heat storage beneath salt-gradient solar ponds under constant heat demand

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**HIGHLIGHTS**

- Representation of the thermal dynamics in a solar pond and the ground beneath it.
- Algorithm for removing heat at a constant rate from a solar pond is proposed.
- Water dependent soil thermal properties are defined.
- Temperatures in a solar pond decrease exponentially as the water table is shallower.
- Insulating solar ponds exacerbate temperatures oscillations at the pond's bottom.

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