



# PROJECT NURSERY SCHOOL A



PV-to-heat-System

## TASK POSITION

- The project aims to improve the quality of life and environmental conditions in Mongolia by reducing dependence on coal combustion and promoting renewable energy sources.
- The plant consists of a PV-to-heat system with a PV system, which uses the electricity to generate heat and heat the room

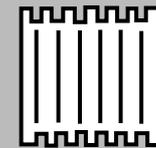
## Storage tank

### SOURCE



- kraftBoxx with PV-to-heat-System
- PV system 50 kWp
- Supply by PV and cheap night-time electricity
- Energy will be stored in due times by high PV yield and in the night and can be delivered during the day

### CONSUMER



- Supply of the individual kindergarten with heating and hot water with radiators

**heatStixx + 58 °C**




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- 1 x heat storage 1000 Liter
- **heatStixx** ATS 58 °C
- Storage capacity 40,4 kWh
- Water equivalent 2300 Liter
- Capacity factor 2,3

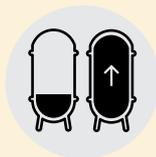
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- 4 x heat storage 1000 Liter
- Storage capacity 17,2 kWh
- Water equivalent 1000 Liter
- Capacity factor 1

**heatStixx**  
inside



Peak-Shifting



Increase the storage capacity



CO<sub>2</sub> saving

## PARTNER



atmosfair gGmbH

atmosfair finances and installs photovoltaic systems and electric heating systems in Mongolia, enabling institutions such as kindergartens and schools to switch from heating with environmentally harmful and unhealthy coal to solar power.

## CONTACT

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