

# Nordische Energy Systems Pvt. Ltd

## Clean Water from Sun & Sand



## CLEAN WATER FROM SUN & SAND

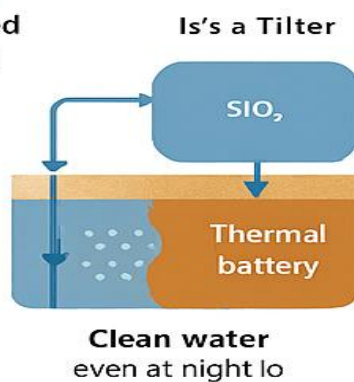
### Who We Are

At Nordische Energy systems, we're pioneering off-grid desalination systems that use solar ca 100,000, liters off clean water/day. Eth t0,0,0001 delivers up to 1,000 liter's of clean water/day. with ~ 70% energy efficiency.

### Technology Overview

Our  $\text{SiO}_2$  sand bed isn't a filter – it's a thermal battery.

it stores solar energy during the day and powers dead nation even at night/ or cloudy days



### Scientific Justification

#### Why $\text{SiO}_2$ ?



Sustainability.








Solar Energy



Water Access

### Technology Benefits

-  No membrane fouling, no brine backpresure
-  Operaties in saline, brackish, or contaminated waterl
-  No chemicals needed
-  Off-grid or hybrid compacible
-  Eco-friendly, low operational cost

### ➤ Who We Are

- At Nordische Energy Systems, we pioneer off-grid desalination systems that use solar heat and sand ( $\text{SiO}_2$ ) as a thermal energy storage battery. Our technology delivers up to 10,000 liters of clean water/day with >70% energy efficiency, designed for dry, remote, and energy-constrained regions.

➤ **Mission Statement**

➤ To develop accessible, scalable, and sustainable water purification technologies using natural thermal materials and renewable energy, enabling climate-resilient communities.

➤ **Technology Overview**

➤ Our SiO<sub>2</sub> sand bed isn't a filter – it's a thermal battery. It stores solar energy during the day and powers desalination even at night or on cloudy days.

- ✓ Zero chemicals
- ✓ Zero membranes
- ✓ Minimal maintenance

➤ **Scientific Justification**

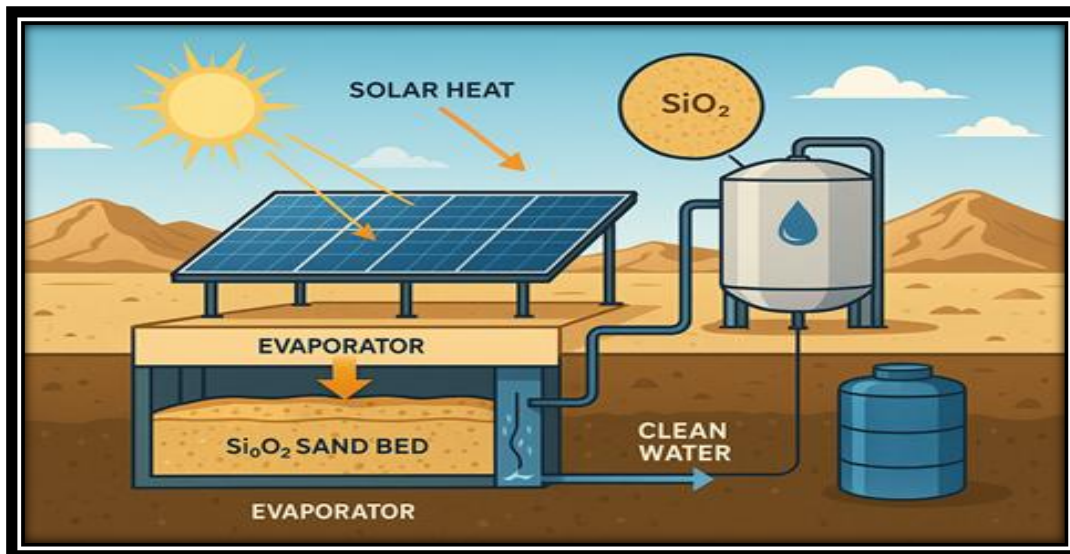
➤ Why SiO<sub>2</sub>?

- High specific heat → Efficient heat storage
- Low thermal conductivity → Slow heat loss
- Low-cost, widely available material

Combined with vacuum evaporation and condensation, this allows water to boil and condense at lower temperatures → Lower energy input, high efficiency.

➤ **Our Products & Services**

- Solar Desalination Units (50–10,000 L/day)
- Thermal Battery Systems (SiO<sub>2</sub>-based)
- Hybrid Solar + Induction Heating Plants



## Contact Us

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