

Masdar City UAE: Solar Desalination Powered by Site Energy Solutions

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Masdar City rises from the Abu Dhabi desert as more than a futuristic skyline; it is a living laboratory that proves abundant sunshine can solve two Gulf-region headaches at once: power security and fresh-water scarcity.

1. Why Solar + Desalination Works on the Arabian Peninsula

- **Climate advantage** – >300 days of intense sunshine provide a near-constant energy source; desalination demand peaks in the same daylight window.
- **Closed-loop efficiency** – PV electricity feeds high-efficiency reverse-osmosis trains, slashing the 5 kWh/m³ footprint of conventional plants to 80 % of roofs
7 MWp distributed

Renewable desalination pilots

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