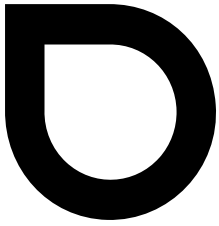


Future50

Industry, Manufacturing
and Resource Management

Energy/Resource Efficient Manufacturing



Desolenator



<https://www.desolenator.com/>

#GreenManufacturing

Highlights

Desolenator is part of the **Masdar Innovate** initiative,²⁹ and has won a number of awards, including the **2020 WEX Global Awards**.³⁰ The company is recognised by the **World Economic Forum** as an innovator in the field of water purification and sustainable technology.³¹

Desolenator reports that it has registered three international patents and is fully operational at scale. Desolenator has built and delivered a carbon-neutral water desalination plant for **Dubai Electricity and Water Authority (DEWA)** following its participation in the **Dubai Future Accelerator**.³³

Desolenator has announced a project with **Silal**, as part of **ADQ**, deploying the **first solar desalination plant for agriculture** in Abu Dhabi.³⁴ The company anticipates this to be completed ahead of COP28. Desolenator's Board of Directors is chaired by Paddy Padmanathan, the CEO of ACWA Power.³⁵

Strategic alliances:

- Corporations
- Government
- Research Institutes
- NGOs
- Agriculture
- Development
- Islands Nations

Headquarters:

Netherlands

Middle East operational countries:

United Arab Emirates

Summary

Desolenator has designed a **modular solar thermal desalination solution**, which it describes as harnessing photons from the sun to transform seawater or brackish water into high-quality pure water with no harmful chemicals or harm done to the environment. Its solution promises low maintenance along with a low carbon footprint, and the company provides it both directly and as a service, with customers able to choose their desired output between **high-quality drinking water** or **ultrapure water for the production of green hydrogen**.

Impacts

Desolenator claims to be building a **fully circular desalination system** where **waste brine is recycled into resaleable solid rock salt** with nothing returning into the environment. The company adds that its patented PVT panels harvest four times more solar energy than traditional PV panels.

List impact technologies:

Green Hydrogen Production Solar Power,
High-Efficiency Heating and Cooling,
Desalination

