

Future50

Energy

Renewable Energy Generation



Mirai Solar



<https://miraisolar.com/>

#ClimateTech

Highlights

Mirai Solar notes that it has participated in a number of accelerators in the Kingdom of Saudi Arabia, including **TAQADAM**.¹¹⁶ It is also an alumnus of **Wells Fargo Innovation Incubator (IN2)**¹¹⁷ and the **LA Cleantech Accelerator (LACI)**,¹¹⁸ and raised funding from the **KAUST Innovation Fund**.¹¹⁹

Mirai Solar was the regional winner of the **Cleantech Open**¹²⁰ and has been recognised with a number of other international awards. It claims to have been selected by the Kingdom's **Ministry of Energy** to work with a task force to commercialise the technology, and adds that it has three active pilots with commercial entities.

Strategic alliances:

- Greenhouse Integration Partners
- Photovoltaic Device Manufacturers
- Greenhouse Companies
- Greenhouse Manufacturers

List impact technologies:

Solar Power, High-Efficiency Heating and Cooling, Smart Buildings

Headquarters and Middle East operational countries:

Saudi Arabia

Summary

Mirai Solar seeks to expand the utilisation of solar energy with innovative new applications. It has developed a multifunctional shading system for building integration that is based on photovoltaic technology and **uses blocked sunlight to generate electricity**. Mirai Solar claims that the consequent power generated can provide customers with a secure return on investment and significantly lowers the carbon footprint of buildings and food production.

Impacts

Mirai Solar states that its system is programmable and dynamic. For instance, the shading can be adjusted to satisfy different light requirements underneath the panels while continuing to allow air to flow through. Ultimately, the company aims to dramatically **improve the energy use efficiency of greenhouses and smart buildings**.

