Future50

Energy

**Renewable Energy Generation** 



Maana Electric SA



https://www.maanaelectric.com

#GreenManufacturing #ClimateTech #NatureBasedSolutions

# Headquarters:

Luxembourg

# Middle East operational countries:

United Arab Emirates

#### Summary

Maana Electric develops green technologies for solar panel manufacturing. Drawing on its **space technology background**, the company applies a system engineering approach to develop more sustainable and **ESG-compliant products**, **such as solar panels and cells**, **silicon parts and other components**.

Maana Electric's premier technology is the TerraBox, which runs on its proprietary In-Situ Resource Utilisation (ISRU) technology. ISRU refers to the use of only locally available resources to produce goods. Likewise, the highly portable TerraBox can produce solar panels anywhere in the world using just electricity and impure sand.

#### Impacts

Maana Electric claims that TerraBox **emits less carbon dioxide**, is less chemical-intensive and consumes two to three times less energy on a per watt basis than commonly used panels. The company adds that TerraBox delivers a per-watt **price electricity reduction of around 30% more than conventional silicon solar panels.** 

# Highlights

Maana Electric participated in the **Mohammed Bin Rashid Innovation Fund (MBRIF)** accelerator programme<sup>114</sup> and reports having **raised its first equity round** of an undisclosed amount from business angels and a family office in Luxembourg.<sup>115</sup>

### **Strategic alliances:**

- Research Institutes
- Governments
- Investors
- Solar Panel Manufacturers
- Large Utility Companies
- Engineering and Procurement Contractors

# List impact technologies:

Solar Power

