

Future50

Food, Agriculture and
Land Use (FALU)

Agricultural Biotech/Genomics/
Natural Solutions



REDSEA

RedSea Farms



<https://www.redsea.ag>

#BuiltEnvironment

Highlights:

RedSea has raised a **total US\$36.5 million**, with its most recent raise in April 2022 of US\$18.5 million in equity finance,¹⁹⁶ to support its global and regional expansion and technology development.

RedSea notes a number of high-profile partnerships, including with **Red Sea Global** to provide technologies to sustainably feed guests in **Saudi Arabia's Red Sea Project**. Another partnership is with **Silal Farms in the United Arab Emirates**, involving the installation of RedSea's technologies in Silal's contracted farms.¹⁹⁷ In March 2023, RedSea announced the commissioning of its one-hectare facility in Abu Dhabi,¹⁹⁸ set to supercharge wider adoption of technologies in the UAE to benefit local growers.

RedSea's iyris heat-blocking roof was recently awarded **The Davidson Prize**.¹⁹⁹

Strategic alliances:

- Agriculture Businesses
- Universities
- Government
- Hospitality Chains
- Retail Chains
- Real Estate Development Companies

List impact technologies:

Precision Agriculture, Sustainable Agriculture,
High-Efficiency Heating and Cooling

Headquarters:

Saudi Arabia

Middle East operational countries:

Egypt, United Arab Emirates

Summary:

Red Sea Farms (RedSea) seeks to advance commercial farming in hot climates globally through the scientifically rigorous and innovative design of sustainable pioneering agriculture technologies, which span from the roots of the plants – through the rooms – and up to the roofs of greenhouses. RedSea's platform comprises proprietary **controlled environment**, agriculture technologies, plant science to cultivate crops that thrive in hot environments, and intelligent resource-saving systems.

Impacts:

RedSea indicates that its technologies fundamentally address climate change and food security. The company notes that its hot climate agriculture platform has shown to use up to **90% less freshwater and energy** than traditional methods.¹⁹⁵ It adds that the iyris technology in its roof system, designed to absorb heat while allowing for light passage, has been shown to save up to 45% energy use in a greenhouse. RedSea has also introduced an intelligent crop monitoring platform to provide data insights and improve yield. The company claims to have produced a rootstock that is tolerant of salt, heat, and drought and produces high yields in hot and harsh climates

