



Future50

Industry, Manufacturing
and Resource Management

Low-GHG Plastics, Plastic Alternatives



Plastus Biotech



<http://www.plastus.com>

#ClimateTech

Highlights

Plastus has participated in the **TAQADAM Accelerator**,⁴¹ which is part of the KAUST Innovation Fund. It has reported receiving a few equity-free awards – this includes the **LEAP Award 2023 for US\$250,000** won in Riyadh in March 2023⁴² – and registering two patents, including one for its entire lab protocol. Plastus finished as the second runners-up at the **2021 Entrepreneurship World Cup** pitch competition⁴³ and cites receiving support from Misk, Monsha'at and the Kingdom of Saudi Arabia's Ministry of Communications and Information Technology.

Strategic alliances:

- Government
- Businesses (Large Companies)
- Universities
- Restaurants
- Catering Product Manufacturers

List impact technologies:

Low-GHG Plastics, Food Waste Technology

Headquarters and Middle East operational countries:

Saudi Arabia

Summary

Plastus is a biotech company that **converts organic waste into biodegradable bioplastics** using a fermentation process. It claims to divert waste oil, returning bio-sequestered carbon to the earth and reducing organic waste stream. As a result, Plastus' patented technology addresses multiple issues, including food waste and plastic pollution.

Impacts

Plastus notes that they provide a circular economy model that addresses challenges in decarbonisation, GHG, waste reduction, food security, and water scarcity.

The company utilises seawater to save on the purification and extraction costs, and claims that its **bioplastics have US\$0 end-of-life cost** because they degrade safely in soil or ocean, unlike most other types of bioplastics that require a special processing plant.

