

GigaFarm initiative lays foundations for Food Tech Valley in Dubai

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GigaFarm construction begins at Dubai's Food Tech Valley, heralding a new era in decarbonised food production.

Project execution has officially commenced on an innovative decarbonised farm in Dubai Food Tech Valley, a master development launched by Sheikh Mohammed bin Rashid Al Maktoum and spearheaded by prominent Dubai property developer Wasl.

Dubai-based group ReFarm Global (ReFarmTM) and Intelligent Growth Solutions (IGS) joined to initiate the "GigaFarm" project, which will collocate six complementary technologies, establishing a self-contained closed-loop ecosystem designed to maximise resource efficiency and prevent waste going to landfill. The GigaFarm project is being developed on a 900,000 sq. ft. plot at Food Tech Valley, a UAE-government-led initiative designed to address food security.

The site will begin food production in 2025 and will be capable of growing more than three million kilos of produce annually, using IGS vertical farming technology. In addition, by diverting more than 50,000 tonnes of food waste from landfills each year through integrated waste-to-value and regenerative farming technologies, the GigaFarm will significantly advance the UAE's efforts to decarbonise food production, offsetting 1 per cent of the country's fresh produce imports.

This pioneering project places Dubai Food Tech Valley at the forefront of sustainable agriculture, establishing a new benchmark for innovative, technology-driven and cost-effective food production in the region.