



KarmSolar Expands Farafra Solar Grid with Landmark Daltex Partnership, Tripling Energy Capacity in Farafra

- Farafra Solar Grid utilization surges from 35% to 75%, driving expanded electricity distribution across 64,000 acres
- New partnerships with Daltex, Al-Mazare', and Al Hoda nearly triple contracted supply from 3.2 to 8.37 MVA

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KarmSolar, Egypt's pioneering solar energy utility provider, is accelerating the expansion of its Farafra Solar Grid through a strategic partnership with Daltex, the country's leading agribusiness and the world's largest exporter of potatoes. The agreement will see KarmSolar supplying 2 MVA of electricity to Daltex, along with a total of 3.17 MVA to Al-Mazare' for Food Manufacturing and Cooling, and Al Hoda for Land Rehabilitation and Cultivation, tripling its contracted electricity supply capacity in the region to 8.37 MVA.

Introduced in 2023, the Farafra Solar Grid is Egypt's first microgrid of its kind, integrating solar PV panels, battery storage systems, and diesel generators into a centralized power distribution network. This innovative model is designed to significantly reduce the region's reliance on diesel, lower carbon emissions, and provide sustainable, cost-effective energy solutions to agricultural businesses operating in off-grid areas.

KarmSolar's expansion, funded through equity investments, has increased Farafra Solar Grid's utilization from 35% to 75%, showcasing its scalability and efficiency. With Daltex managing 40% of our targeted agricultural landscape in Farafra, spanning 64,000 acres, this collaboration marks a pivotal moment in the sector's transition to renewable energy. By choosing KarmSolar's centralized electricity generation model, Daltex is setting a precedent for other agribusinesses to follow, demonstrating the economic and environmental advantages of sustainable energy solutions.

"Transitioning to sustainable energy in agriculture isn't just about adopting renewables; it's about finding solutions that are reliable, cost-effective, and tailored to large-scale farming. With our operations heavily reliant on night-time energy, achieving this balance has been a key challenge," said Mahmoud El Naggar, Head of Strategic Planning and Procurement at Daltex. "This project with Karm has allowed us to implement a solution that meets both our energy and business needs and aligns with our broader commitment to advancing sustainable farming practices, ensuring long-term efficiency, resilience, and environmental responsibility across our operations."

"We are committed to building a reliable power grid in Farafra, with the ultimate goal of achieving 100% solar dependency," said Ahmed Zahran, CEO & Co-founder of KarmSolar. "Our partnership with Daltex marks another step toward achieving this vision, ensuring that power availability and reliability are never again an issue for Daltex or the Farafra region."



This expansion highlights the rising demand for centralized, solar-powered energy solutions in Egypt's agricultural sector. With a highly scalable investment in generation and distribution infrastructure, KarmSolar is driving long-term sustainability and operational efficiency in the region.

Phase 1 of the Farafra Solar Grid initiated in January 2023 with EGP 83M in debt financing from HSBC, supporting the development of a 3.4 MWp solar PV station, 3.7 MVA diesel generators, and a 4 MWh/1 MW battery energy storage system (BESS).

Established under KarmSolar's SPV, Mars for Selling and Distributing Electricity, and in partnership with Enmaa and Nawa for Agricultural Investment, the project was designed to achieve 60% solar penetration initially, with a goal of 100% within five years.

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About KarmSolar

KarmSolar is a pioneering vertically integrated solar utility provider transforming how businesses and communities access and use energy. As the leading renewable energy provider for Egypt's private sector, KarmSolar develops, owns, and operates fully integrated energy solutions; including solar power generation and storage, micro-grid systems, and power distribution. With a focus on long-term sustainability, KarmSolar helps clients achieve energy independence by offering a more reliable and economical alternative to traditional power sources.

Karm's ecosystem also includes Karm Architecture Lab (KAL); specializing in high-performance sustainable architecture, KarmWater; delivering cost-effective solar-powered water desalination solutions, and KarmCharge; developing Egypt's next-generation EV charging network. Together, these companies drive a future of cleaner energy, smarter infrastructure, and sustainable innovation.

About Daltex

Daltex is a leading agribusiness in Egypt and the world's largest exporter of potatoes, operating across 50,000+ acres with an annual production of over 400,000 tons across 10+ different crops and exports exceeding 250,000 tons. Founded in 1964 by Dr. Samir El Naggar, Daltex has built a fully integrated agricultural operation that spans the entire value chain—from land reclamation and inputs trading to large-scale farming, packing, and global distribution to 75+ countries. This end-to-end approach ensures efficiency, quality control, and the ability to meet the evolving demands of local and international markets.

Beyond scale, Daltex is committed to the future of sustainable agriculture. The company continues to invest in innovative farming techniques, water-efficient irrigation, and renewable energy solutions to enhance productivity while reducing environmental impact. By leveraging advanced agronomic practices and strategic partnerships, Daltex remains at the forefront of responsible farming, working to balance economic growth with long-term environmental stewardship. With a focus on efficiency, resilience, and sustainability, Daltex is shaping the future of agriculture in Egypt and beyond.

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