**CASE STUDY**

**SUNGROW INVERTERS**

**224 x SG60KTL**

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**MIDDLE EAST’S LARGEST SOLAR PV ROOFTOP PLANT**

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**CHALLENGE**

The largest solar rooftop installation in the Middle East will be completed in the first half of 2019. Perfected with Sungrow’s high-performance string inverter SG60KTL, the project was timely commissioned by Etihad EESCO and realized by DEWA certified PV solar contractor and Sungrow partner Enerwhere. Design, engineering and installation of the project was carried out in less than eight months with a combination of local and international suppliers.

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**SOLUTION**

The installation was built out on a total of five rooftops at the Mai Dubai water-bottling factory and adjacent Ghaffath water reservoir in Al Qudra, Dubai. The site is accommodating in total 50,000 solar PV modules on a combined rooftop area of 136,000 m². SG60KTL string inverters feature cost-efficient installation combined with easy O&M paired with immediate high performance without derating even at 50 C, were the ideal choice for this landmark project.

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**BENEFIT**

The award-winning project, granted “Best Industrial Solar Project of the Year” at the World Future Energy Summit 2019, has a total electricity generation of approximately 29,000 MWh per year, supplying not only 100% of the bottling plant’s annual electricity demand, but saving also an estimated 15,500 tons of CO2 per year, significantly reducing the plant’s carbon footprint.

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**Project Developer**

Etihad ESCO

**Project EPC**

Enerwhere Sustainable Energy

**Plant Owner**

Mai Dubai Water Factory

**System**

Self-consumption, roof-top

**Inverters**

224 x SG60KTL

**Completion & Grid Connection Dates**

2018 - 2019

**Annual Production (MWh/year)- per phase**

649.2
3553
13778
12253

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This award-winning project marks a milestone for our fruitful cooperation with our distinguished partner Enerwhere. Furthermore, we are proud to be part of DEWA’s Shams Dubai initiative and delighted to continue the partnership with more projects in the region moving forward. The MENA region is paramount for Sungrow and we are ready to significantly increase our investments here”, said Jason Wang, Country Manager Sungrow UAE.

“We are extremely satisfied with the high reliability and solid performance of Sungrow products being an ideal match given the hot temperatures and severe sandstorms in the region. We are looking forward to our continued cooperation that will help build a greener and more sustainable UAE”, said Daniel Zywietz, CEO, Enerwhere

The installation was carried out on a total of five rooftops at the Mai Dubai water-bottling factory and adjacent Ghaffath water reservoir in Al Qudra, Dubai. This installation utilizes 10 low voltage connections and 2 medium voltage connections which feed the factory. This is the first solar PV rooftop project in the region that is installed on water reservoir/water storage facilities. This plant will therefore set an example for all other reservoirs in Dubai with a total capacity potential of 60 MWp.