Techren II solar power plant is located in El Dorado Valley, Boulder City, Nevada, home to many various utility-scale power plants.

The project is developed by Clenera, which aims at adopting advanced new solar technology and achieving large power capacity of 250 MWp.

It is expected to supply 572 GWh of reliable solar power every year, which is equivalent to the electrical usage of more than 48,000 Nevada households, offsetting nearly 323,000 tons of CO₂ annually.

Sungrow, as a global leading inverter solution supplier for renewables, provides the advanced central inverter solution SG2500U-MV for this project. It is well integrated with bifacial modules (from Canadian Solar / LONGi), and solar trackers (from NEXTracker). In partnership with leading EPC Swinerton Renewable Energy, Techren II was successfully commissioned in Aug, 2019 and is running smoothly ever since.

Sungrow SG2500U-MV plays an important role in the stable operation and power generation capability of Techren II power plant. The products robust standout features result in low system cost and better ROI for the asset owner.

“Swinerton is excited to partner with Sungrow to build this landmark project.”

- George Hershman, President of Swinerton Renewable Energy.
1500V Turnkey Station, Which Is Oriented to the Future
Most of the utility-scale solar projects are moving forward to apply 1500Vdc technologies. With shifting to 1500V, a PV plant needs less cables, DC combiner boxes, and labor cost compared with the project with 1000V technologies. The turnkey station SG2500U-MV is highly integrated with 1500Vdc inverter, communication units, and pad-mount transformer. It is standard containerized design, which means easy transportation and low installation cost.

Excellent Compatibility with Third Parties
Bifacial modules (from Canadian Solar / LONGi) and solar trackers (from NEXTracker) are in use at Techren II. The project can generate more solar energy and demand stricter requirements regarding to high load capacity and long-time stability of inverters. According to the operational data, the annual equivalent power generation hours of Techren II PV plant is more than 2500 hours. SG2500U-MV presents excellent performance and meets the long-term operation requirements of the power plant and ensure a high yield. Besides, it is integrated with auxiliary power supply for solar tracker, which can significantly ensure less power supply cables and reduce installation labor cost.

High Efficiency and Wide Temperature Range
Techren II project is located in an arid high plateau, which often experiences high temperature in summer exceeding 40°C (104 F) With smart forced air-cooling technology, SG2500U-MV can maintain excellent efficiency and full power operation under the conditions of high temperature (2500kW@50°C, 2750kW@45°C) and it can run stably from -30 °C (-22 °F) to 60°C (140 °F). Due to the high protection design, Sungrow SG2500U-MV performs well in extreme environments.

Rich Industry Experience and Strong Delivery Capability
Sungrow is one of the few companies which introduced its 1500Vdc inverter solutions as early as 2015, and has more than 8GW of 1500V inverters deployed globally as of June 2019. Equipped with robust delivery capability for each project, regarding to R&D, production & assembly, shipment and implementation, Sungrow also has extensive cooperation experience with project partners to ensure a successful and timely COD.

Sungrow, as the world’s most bankable inverter brand, is specialized in R&D, production, sales and service of renewable energy solutions. The company keeps rolling out new product portfolios for the American markets, consisting of the turnkey solution SG3150U-MV, the world’s most powerful 1500Vdc string inverter SG250Hx-US as well as the commercial product lineup ranging from 33kW to 60kW. Sungrow is a very dynamic player adding manufacturing capacities and putting in place a world-class after-sales supports - a 24/7 full service office in Phoenix, AZ. The company expects to ship 2 GW of products to North American markets in 2019 with utility-scale products making up the bulk of these shipments. It will be a constant mission for Sungrow to provide clean power for all, today, tomorrow and generations to come.
Sungrow Power Supply Co., Ltd ("Sungrow") is the world’s most bankable inverter brand with over 87 GW installed worldwide as of June 2019.

Founded in 1997 by University Professor Cao Renxian, Sungrow is a leader in the research and development of solar inverters, with the largest dedicated R&D team in the industry and a broad product portfolio offering PV inverter solutions and energy storage systems for utility-scale, commercial, and residential applications, as well as internationally recognized floating PV plant solutions. With a strong 22-year track record in the PV space, Sungrow products power installations in over 60 countries, maintaining a worldwide market share of over 15%.

As a leader of innovation in the solar industry, Sungrow possesses a dynamic R&D team which consists of over 1000 employees. The Company has also invested its own in-house testing center approved by UL, CSA, TÜV Rheinland, and TÜV SÜD. In 2019, Sungrow launched the world’s largest inverter factory, once fully operational, the global annual production capacity will reach 50 GW, including 3 GW of India factory.

Offering a wide range of solutions and services, Sungrow is committed to providing clean power for all and is steadfast in its efforts to becoming the global leader of power conversion technology. Learn more about Sungrow by visiting www.sungrowpower.com.