The Iraqi Ministry of Oil awarded Shell (lead operator), Petronas and Missan a 20-year contract to provide technical assistance in the development of the Majnoon field in 2010. Majnoon is one of the largest oil fields in the world, with an estimated 38 billion STOIIP (stock tank oil initially in place). The Majnoon Project, also known as the Tigres Project, consists of a two-phase development: Phase I to reach first commercial production (FCP) and Phase II to develop the full field (FFD). In 2014, FCP exceeded the target, reaching an average of 210 kbbls/day. To sustain the development and extraction works of the Majnoon oil field and reduce the strain on the country’s electricity supply a specific, sustainable and reliable power plant solution was needed and SOC selected Mobile Power Units (MPU’s) from Solar Turbines. Iraq is facing an acute shortage of electricity in the country and one of the main project goals is to send the sweet gas to a power plant in north Rumaila that will generate power supply to the grid.
The four Taurus™ 60 MPUs generate electricity from flare gas to feed Pioneer Camp and the central processing facility at Majnoon Oil Field. Pioneer Camp includes offices for staff/contractors, recreation centers, dining hall, kitchen and approximately 500 residential units. The sour oil is processed prior to exporting by pumps to Degasging Station 1 about 25 kms away. Majnoon oil field’s daily production is about 220,000 barrels.

After the commissioning of the two additional Taurus 60 MPUs in 2016 that will replace diesel generators, Solar Turbines equipment will be supplying power to the majority of the oil field. The use of associated gas instead of diesel dramatically reduces operation and maintenance costs and supports the worldwide flare reduction policies.

In addition to the equipment listed above, Solar has also supplied local equipment rooms, nitrogen and instrument air skids, utility skids, process gas coolers, glycol regeneration skids, glycol cooler skids, discharge coalescing skids, inlet separator skids, process skids, pipe racks, and all miscellaneous cables, cable trays and piping.