



FLEET ASSESSMENT SERVICES LIFE CYCLE MANAGEMENT

Solar Fleet Assessment Services (FAS) conducted thorough site inspections on an oil and gas company's aging assets during a multi-year study. The results of the FAS surveys were the basis for setting up a contract under Solar Machinery Management Services (MMS) and the company's upgrade and reinvestment initiative for aging packages.

- Operation was improved to 98% availability after implementation of FAS solutions, setting up the MMS contract, and connection of the fleet to the InSight Platform™ remote monitoring system.
- It is estimated that the FAS fleet approach led to ~US\$2.5 million in net savings through standardization and optimization costs.
- Through collaboration, Solar also developed a new refurbishment product – the exchange in-situ refurbishment – which accommodates the advantages of a full package refurbishment without removal of the original skid.

Location	Asia Pacific
Assessment Period	2017 - 2018
Fleet Size	27 Units
Fleet Configuration	16 TG, 11 GC
Reliability Improvement	27%
Life Cycle Savings	\$2.5M
Unplanned Downtime Reduction	~800 Hours/Month

Solar® Turbines

A Caterpillar Company



The Asia Pacific region is known for its vast reserves of petroleum and gas which has fueled the area's economy for the past 85 years. Our customer is in a joint venture with the local government and is the largest producer of oil and gas in their country, exporting over 350,000 barrels of oil and gas equivalent worldwide.

The company owns 16 Solar® gas turbine generator units and 11 Solar centrifugal compressor units, making up 75% of their total turbomachinery fleet.

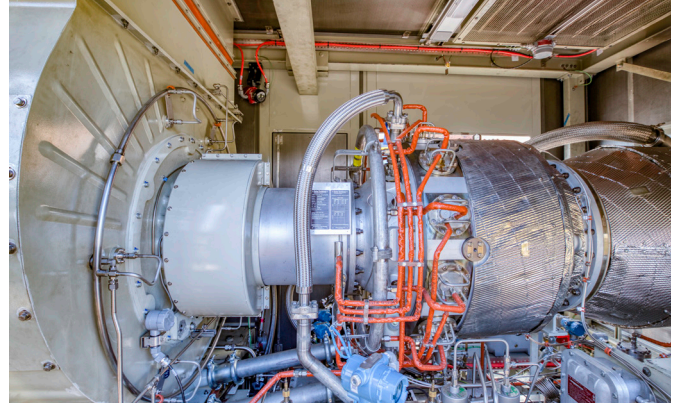
Solar FAS conducted thorough site inspections on their aging assets. The goals of the assessments were to baseline the equipment condition and identify sources of operational risks in order to improve overall fleet safety, reliability and life cycle management. The results of the FAS surveys were the basis for the upgrade and reinvestment initiative for the aging packages.

Over a series of in-depth workshops, Solar FAS and the company collaboratively developed a concrete and executable reinvestment strategy aimed at addressing their reliability goals. The proposed solution was a combination of several refurbished units, a wide range of package system upgrades, and a machinery management contract (EHM). The EHM contract includes a dedicated fleet manager, fleet engineer, warehouse manager and 18 technicians who will ensure the fleet is maintained properly for years to come.

Prior to FAS, their fleet was operating with low availability, so increasing fleet availability to 97% was a major driver. After implementation of FAS solutions and connecting the fleet to the InSight Platform remote monitoring system, operation was improved to 98% availability.

By addressing customer needs from a fleet perspective, Solar FAS was able to offer risk-based and prioritized solutions that dramatically improved standardization of the customer fleet which, in turn, significantly reduced service parts inventory requirements and greatly simplified operator training. It is estimated that the FAS fleet approach led to ~US\$2.5 million in net savings through standardization and optimization costs. Through collaboration, Solar also developed a new refurbishment product – the exchange in-situ refurbishment – which accommodates the advantages of a full package refurbishment without removal of the original skid.

For more information on how Solar Fleet Assessment Services can provide intelligent, cost-effective equipment optimization and refurbishment solutions for your Solar fleet, please contact your local Sales Account Manager.



Solar Turbines Incorporated
Phone: +1 619 544 5352
Email: infocorp@solarturbines.com Web: www.solarturbines.com

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