

Agiba Case Study

SIEMENS SGE-SL series generator sets deliver 1.5MWe of continuous power from low methane number flare gas.



The Opportunity

The Raml gas well project is located in Egypt's western desert fields where there are more than 110 oil-producing wells, of which 30 are located in Raml itself. The average production of the gas fields is 57,000 BBL/day (more than five different locations). Historically, the western desert fields have suffered poor yields because of the high gas-to-oil ratio. This problem was resolved with the application of new separation technology, which presented the opportunity to capture and use a higher quality gas for power generation.

The Solution

The project development team created a solution that delivered gas of consistent quality and methane yield for combustion in specially designed, low compression ratio (LCR) engines. The flare gas is captured and used to produce a total of 1.5MWe of electricity. The plant consists of three SIEMENS model SGE-48SL LCR engines running on flare gas with a very low methane number (46.1). This solution has enabled Agiba Petroleum Company to maximize the value of the gas resource that was previously wasted.

Benefits Summary

- Substantial savings in fuel costs (almost 2MM€/year)
- Increased power generation reliability and availability
- Increased oil production
- Reduced maintenance and repair costs
- Reduced emissions by 50 percent and reduced flared gas by 60 percent



SIEMENS

For more information about
SIEMENS, contact:

SIEMENS
Oikia, 44
20759 Zumaia-Gipuzkoa
Spain
Tel: (Int'l +34) 943 865 200
Fax: (Int'l +34) 943 865 210

www.siemens.com



The Company

SIEMENS closed its acquisition of DRESSER RAND in 2016.

SIEMENS is among the largest suppliers of rotating equipment solutions to the worldwide oil, gas, petrochemical, and process industries. The company operates manufacturing facilities in the United States, France, United Kingdom, Spain, Germany, Norway, India and China, and maintains a network of 39 service centers covering more than 140 countries. SIEMENS has principal offices in Paris, France, and Houston, Texas.



SIEMENS