

Egypt



Power for a Major Chemical Facility on an Accelerated Timeline

During the early planning stages of a large-scale polyethylene plant, the Egyptian Ethylene and Derivatives Company (ETHYDCO) – the country’s largest public/government company – considered procuring electrical power from a nearby refinery. That plan, however, was scrapped at a late stage of project development, putting ETHYDCO at risk of having a completed chemical facility without a supporting power plant or connection to the grid. In 2015, ETHYDCO selected APR Energy to provide an interim, fast-track power solution using its state-of-the-art mobile gas turbines. The turnkey solution featured three GE aeroderivative mobile dual-fuel turbines running on natural gas, together with the associated balance of plant. While the chemical facility required approximately 30MW of generating capacity from the turbines – which have an individual ISO rating of 20-25MW – ETHYDCO requested that APR Energy operate three turbines simultaneously to provide the redundant capacity to ensure uninterrupted power. The project required APR Energy’s engineers to design customized filtration and gas compression solutions to enable the turbines to run on the local supply of natural gas and to accommodate pipeline gas compression of just 70-80 psi.



MAINTAINING STRICT DEADLINES

Despite multiple change orders and custom delays, APR Energy stayed within the project’s firm **90-day time frame**.



ACCOMMODATING DESIGN

Customized filtration and gas compression solutions enabled the turbines to run on local natural gas.



FULL-SERVICE SOLUTION

The contract included plant design, installation and commissioning work, in addition to management, operation and maintenance.

3 TM2500
gas turbines



TESTIMONIAL

“Due to our need for a reliable and cost-efficient natural gas solution, we believe that APR Energy’s mobile gas turbines were the best fit to meet our critical electricity needs. We have been impressed with the speed and flexibility APR Energy has demonstrated in delivering our unique project requirements on time, and appreciate the responsiveness its people have shown during every stage of the process.” - THYDCO Chairman, Abd-el Rahman Zeid