



REF Card
CITEC CUSTOMER REFERENCE

10/2014

» IPP4 Al-Manakher Power Project, Amman, Jordan

+ CASE IN BRIEF

Project

IPP4 Al-Manakher Power Project,
Amman, Jordan

Location

Jordan, Amman

Customer

Wärtsilä

End customer

AES, USA

Scope

Sixteen 20 MW 18V50DF engines, net
power 250 MW

Customer challenge

■ The customer needed to build a tri fuel plant that uses light or heavy fuel oil or gas on a small area of land. The conditions were Jordan's dry desert landscape and very strict owner and official requirements, especially with respect to health, safety and the environment (HSE).

Citec solution

■ Citec produced all of the engineering and documentation for the plant.

As there are people living on a nearby hill, noise had to be minimised as well. That's why fuel tanks were built side by side, forming a sound barrier. And because of that, an efficient tank cooling system had to be engineered in case of fire. Due to Jordan's fire standards and limited water resources, a larger than usual fire-fighting and raw water storage tank was added to the site.

Project description

■ In 2013, Citec executed engineering

and documentation for one of Wärtsilä's biggest-ever power plants, the IPP4 Al-Manakher power project in Amman, Jordan.

In summer 2014, the 250 MW power plant's 16 engines began to generate electricity for the Kingdom of Jordan's grid. The power plant will use heavy fuel oil until 2015, when gas will start to arrive via the Amman pipeline.

The Jordanian power plant project is in many ways exceptional and has broken many records. It was unusual that the power plant's building permit was within Wärtsilä's remit and a significant amount of engineering had to be made before Wärtsilä's EPC contract was signed. Citec therefore started the engineering work at a very early stage.

Scope of work

■ Engineering began in autumn 2012; construction work started in winter 2013, completed in summer 2014. Citec's engineering hours: 49,000.

Citec Oy Ab

Head office: P.O. Box 109, FI-65101 Vaasa, Finland
Tel. +358 6 3240 700
www.citec.com

