

# World's Best Power Plants



GPB80D gas turbine power generation system powered by a Kawasaki 7000 kW Class M7A-03D gas turbine.

## FIRST M7A-03D-DRIVEN POWER GENERATION SYSTEM

### KAWASAKI HEAVY INDUSTRIES

A Munksjö Paper production plant, located in Unterkochen, Germany, is the site of the first GPB80D gas turbine power generation system powered by Kawasaki's 7000 kW class M7A-03D gas turbine. The order was received by the German subsidiary of Kawasaki Heavy Industries Ltd., Kawasaki Gas Turbine Europe GmbH.

Munksjö Paper worked with public utility company, Stadtwerke Aalen, to build a cogeneration system comprising a gas turbine power generation system and a heat recovery boiler for its production plant in Unterkochen. The cogeneration system will cut carbon dioxide emissions by 30% or 30 000 tons annually, making the energy supply system for the

plant environmentally friendly. Exhaust gas from the gas turbine power generation system is recovered by a heat recovery boiler and supplies steam to the plant's production lines, resulting in overall efficiency rate of 86%. The GPB80D gas turbine power generation system started operation in September 2008.

Development of the GPB80D gas turbine power generation system driven by Kawasaki's new M7A-03D gas turbine was based on the GPB60D and GPB70D gas turbines, which have earned a high reputation in the market. It has achieved higher performance compared with the GPB70D by approximately 10% in terms of output and 2.9 points in terms of thermal efficiency. ♡