

Enabling Savings Through Sophisticated Equipment

Industrial & Commercial

At A Glance

Application:
Industrial Trigeneration

Output:
Electricity: 1.7 MWe

Benefits:
35% Saving of Energy Costs
40% Reduction of Emissions
8hrs Low Annual Maintenance



SUCCESS STORY



Installation:
1 X OP16-3B
2009

Location:
Tilburg, The Netherlands

Customer:
FujiFilm Europe B.V.

The Challenge

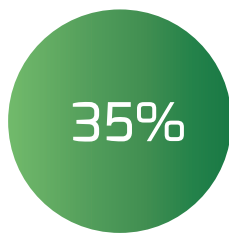
Fujifilm is highly committed to sustainable energy and environmental friendly solutions. Fujifilm is a manufacturing plant which produces offset plates for printing purposes. The facility produces blast off air which consist off green house composition. The blast off air needs to be cleaned before releasing it to the atmosphere.

The Results

A CHP plant produces electricity and at the same time uses the heat of the exhaust to reduce the green house emission level and to pre-heat the hot water system. Cogeneration ensures reliable and highly efficient energy supply, with a cost effective solution in terms of savings on the energy bill.

The Solution

The heat produced by the gas turbine's exhaust is used to preheat the blast off air. The exhaust gas, produced by the gas turbine, flows at the rate of approximately 8 kg every second at the temperature of 560 °C. The remaining energy is supplied to the hot water system. The preheated blast off air is first heated in the double wall of the combustor before being mixed with natural gas and liquid solvents to bring its temperature to 900 °C. The blast off air is then cooled down before entering steam boilers. In the boilers, the condensate is brought to a pressure of 60 bar(g) and a temperature of about 400 °C to steam turbine before being expanded to 25 – 30 bar(g) and fed to the local net.



Energy Savings



Reduction of Emissions



Low Annual Maintenance

Get in Touch With Us

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