

Delivering Energy to Industry
Combined Heat and Power in Practice

Aylesford Newsprint Ltd



'Papermaking is an energy intensive business. Buying our heat and power from cogen's cogeneration scheme improves our efficiency and reduces costs.'

Ramsey Hampton, Chairman, Aylesford Newsprint.

Aylesford Newsprint Ltd

Aylesford Newsprint, a joint venture between SCA and Mondi Europe, operates modern newsprint paper machines capable of producing 100% recycled newsprint business. npower cogen's CHP scheme has been expanded to meet the increased heat and power requirements of Aylesford Newsprint.

CHP at Aylesford

The CHP scheme has been developed in 3 phases to meet the growing energy needs of the paper mill. Phase One began commercial operation in August 1994, Phase Two in Autumn 1995 and Phase Three in February 2001.

The technology

The initial phase of the CHP plant included a Frame 6 gas turbine plus an associated waste heat boiler capable of producing up to 120 tonnes per hour of steam. Phase Two saw the addition of a 20MWe steam turbine and a 90 tonnes per hour fired boiler. The third phase includes an additional Frame 6 gas turbine and the conversion of the fired boiler to heat recovery mode. The plant now has a capacity of 98MWe and 220MWth. The heat and electrical efficiencies achieved qualify the scheme as 'Good Quality CHP' under DEFRA's 'Good Quality CHP Assurance Scheme'.



Contract terms

npower cogen built and owns the CHP scheme, selling electricity under a long-term contract to Aylesford Newsprint along with the steam it produces. npower cogen exports power to, and provides backup electricity supplies from the grid.

How Aylesford Newsprint gains

The scheme's fuel efficiency and the contract terms result in Aylesford Newsprint making significant savings on their annual energy expenditure. They also benefit from having a new utilities plant on their site without capital expenditure. Meanwhile, the environment gains from Aylesford Newsprint's use of CHP technology to meet its energy needs.

To find out how a CHP scheme could benefit your organisation, contact us at:

npower cogen
Cogen Court
Cranmore Boulevard
Solihull
West Midlands B90 4LN

T +44 (0)121 506 8000
F +44 (0)121 506 8001
I www.rwenpower.com