

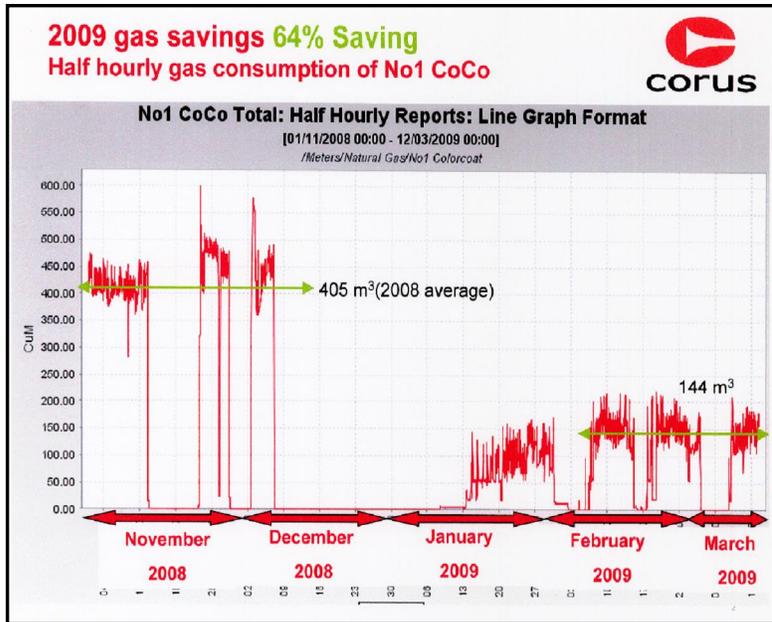


*Spooner Anguil helps reduce Carbon footprint and safeguard UK
manufacturing future*

What the average person may not realise is that there are two types of carbon footprint, a primary and secondary. The primary footprint is a measure of our direct emissions of CO₂ from the burning of fossil fuels including domestic energy consumption and transportation, e.g. car and plane. The secondary footprint is a measure of indirect CO₂ emissions from the whole lifecycle of products we use, those associated with their manufacturing and eventual breakdown. Improving the energy efficiency of industry both safeguards jobs and reduces our secondary carbon footprint.

Tata Steel (formerly Corus) turned to Spooner Industries of Ilkley, West Yorkshire, to help them realise an energy saving project which aimed to reduce the gas consumption by 45%. The colour coat line, based at Tata in Shotton, produces painted steel strip where the paint is applied and dried in an oven system. The finished materials are used in the construction industry, for example the new Spooner facility is finished almost entirely in painted steel, as well as being used for household appliances such as refrigerators, washing machines and dishwashers.

In partnership with American company, Anguil Environmental Systems, Spooner provided Tata with a Regenerative Thermal Oxidiser (RTO) which destroys the harmful solvents evaporated in the process and recovers over 85% of the energy required to destroy the solvents. Since the installation of the Spooner Anguil oxidiser, Tata is on course to save 60% in the gas use, over £1million a year, and reduce CO₂ emissions on the plant by over 1 tonne every hour, nearly 8,000 tonnes per year. In addition to the oxidiser, a secondary heat exchanger recovers energy by pre heating the air going into the ovens.



The graph illustrates the half hourly gas consumption at Tata before the Spooner Anguil oxidiser was commissioned in January. The following months show the drastic reduction in gas consumption, over 60% since installation and Corus are on track to save over **£1million** a year

The investment from Tata was considerable, the existing system was 30 years old, and the ovens had to be brought up to the current standards. A new computerized control system was installed with dedicated safety systems. This system communicates with the central system at Tata and sets up the ovens correctly for each product.



Oxidiser – 3 canister RTO destroys over 99.5% of the solvent, and captures the heat with enough solvent the oxidiser requires no additional gas.

Spooner Industries manufacture bespoke ovens, dryers and pollution control equipment for a variety of markets worldwide. The company has been based in Ilkley since 1951 and currently has over 100 employees. Catering for a range of industries including paper, converting, metals and food, Spooner is continuously developing new technologies and solutions in the in-house testing and R&D facilities

to remain at the forefront of the industry. In addition to the Ilkley headquarters, the company has a network of agents and representatives across the globe, providing a local point of contact for almost every client, wherever their location.