



Heatcatcher Ltd completes  
CETY's Clean Cycle 'waste heat to  
power' system  
for Steetley Dolomite  
Brighton based company delivers  
on £1.3million generator contract

- ▶ New system results in 25% improvement in electrical efficiency
- ▶ Annual Energy saving measures of 3,000 MWh - equivalent to the energy required by 150 homes
- ▶ CO2 output reduced by 1,600 tonnes per year

'Waste heat to power' specialists Heatcatcher Ltd have announced that their first Heatcatcher System, at the Thrislington lime plant near Durham, is now fully operational.

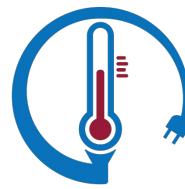
The system, which cost £1.3million to design, build and deliver, is on course to deliver a return on the investment within five years. Early data indicates that it can be expected to generate net power of around 3,000MWh annually, equivalent to 7,500 hours of carbon-free electricity. In total, CO2 output will be reduced by 1,600 tonnes per year.



Steetley Dolomite are keen to make further investments across its two plants after securing a £4m funding package from HSBC's Nottinghamshire Commercial team.

“The project offers an attractive return on investment, when you consider the £1.3m investment against purchasing 3,000 MWh per year of Electricity from the grid over the next 10 to 15 years.”- **John Carill, Managing Director of Steetley Dolomite**

Lime and cement manufacture is currently one of the most energy intensive and greenhouse gas emit-



**HEAT**  
RECOVERY SOLUTIONS

ting industrial processes in existence. The industry contributes roughly 5% of global man-made CO<sub>2</sub> emissions, nearly three times the amount generated by air travel worldwide.

“ We believe that this technology will be a step change reduction in the energy intensive production costs of European Lime and Cement manufacturers, through the design, integration, funding and operation of Waste Heat to Power Plants.- **Darren Bryant, CEO of Heatcatcher Ltd**

The Heatcatcher System works by using the waste heat to vaporise a refrigerant, which in turn drives a rotary generator. The variable frequency and voltage output of the generator are converted to match the grid, and this electrical output is fed back into



the plant's power supply. Every stage of the process has been calibrated to minimise energy losses within the system. In total, each plant fitted with the system recovers 4MWh of thermal power, and converts it to 0.5 MW of cheap, low-carbon electrical power.

“ It's a real point of pride for everybody at the plant that we've become the first site to innovate in this way which has been great for morale. The system was installed with very little disruption of our day-to-day output, and is surprisingly autonomous. It has already begun to pay dividends, in terms of significantly reducing our energy costs and has drastically reduced our greenhouse gas emissions. We can see this technology becoming commonplace throughout the industry in the future, but we'll always be able to say that we were the first plant to have a Heatcatcher.”- **Michael Harman, Plant Manager at Thrislington lime**

If you'd like to know more about the potential for Waste Heat to Power at your site, visit the Heatcatcher website for a free consultation and to arrange a desktop study:

[www.heatcatcher.com](http://www.heatcatcher.com)

The success of the Steetley Project was due to the support of its, Technical Partners: [GE Heat Recovery Solutions](#), [Guerts International](#), [H.Gutner UK Ltd](#), [Golconda Ltd](#) & [Main Systems Ltd](#)  
Installation Partners: [SJ Marlow Pipework Services Ltd](#), [Lacegold Electrical & Mechanical Services Ltd.](#), [Integrated Fabrications Limited.](#)