

## Driving efficient energy use to reduce CO<sub>2</sub> emissions

Reducing environmental impact starts with us. We're looking internally to improve the efficiency of our operations at manufacturing sites to reduce emissions and lower energy and water usages.

Over the years, our sites have implemented many energy-saving projects. While some have involved major construction expenditures, many are on a smaller scale – such as managing

office heating and lighting that help generate a culture of energy conservation at our worksites. Together, they add up to significant environmental benefit.

By constantly looking at new ways of running our operations and processes more efficiently, we are able to save energy and reduce emissions to lower our own operational footprint.

# Measuring our footprint

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Gareth Williams, Environmental Manager, Greatham site



Case Studies: Innovation In Action

### Investment in sustainable technology at Greatham

For almost 50 years, Venator’s Greatham manufacturing site in the United Kingdom has been a leading global supplier of a wide range of titanium dioxide pigment grades. Greatham’s 240 Venator associates and 100 on-site contractors work together to produce world-class pigments used in paints and plastics.

In 2018, the site began a multimillion-dollar construction project to replace original boiler equipment with four fuel-efficient boilers that reduce NOx emissions by 75% and significantly reduce the site’s consumption of natural gas to improve its already world-class performance.

The new boilers will see Greatham’s annual consumption of natural gas decrease by 2.1 million cubic meters based on current pigment production, the equivalent of 4.4kt of CO<sub>2</sub> – which is approximately the equivalent energy needed to power 800 UK homes. In addition, more than 90% of finished materials used in the construction project were sourced in the UK, greatly reducing the carbon footprint of the construction process. The expertise used in the design and construction of the new facility was also more than 90% local.

Plant construction, temporarily delayed due to the global pandemic, got back on track in September 2020, with the plant expected to be online during 2021.

The Greatham upgrade is a sign of Venator’s commitment to investment in sustainable technology that not only improves our energy efficiency but also sets the site up for future operations that continue to reduce our environmental impact.

### Small change, big impact

At our Sudbury site in England, Venator manufactures liquid dispersions for the coatings industry, producing a range of products for various water- and solvent-based applications.

In September 2019, the site began an initiative to reduce its energy use. The team discovered it could use intelligent software to communicate with site services to shut down power when processing equipment stops, thereby eliminating unnecessary energy use and cutting energy costs.

As a result, site electricity consumption has been reduced by 26 megawatts per year, a 2.4% decrease, for annual savings of £4,000, proving that even the smallest adjustments can have a meaningful impact.