

## Making effective use of resources to reduce waste and landfill

Environmental impact is an important component of a sustainable future. With fast-paced regulatory developments and changes occurring globally, it is critical that we keep track of and continue to improve our environmental emissions to land, water and air. Our stakeholders, including customers, regulators and business partners, demand it. And as a global corporate citizen, we believe it is the right thing to do.

Reducing our impact on the environment aligns closely with our values of Integrity, Innovation and ZERO Harm. Using innovation, we are engaged in a variety of long- and short-term projects to minimize our environmental impact. We're transforming co-products into valuable products that can be used in environmental restoration and improvement projects.

We're investing in effluent treatment capability at our manufacturing facilities to reduce the impact on the natural environment around our facilities, and we're developing detailed climate change strategies for our sites to decarbonise to comply with net zero targets being implemented worldwide.

In addition to the practical work going on around the company, we are developing our existing environmental liability management system to be compliant with the Taskforce on Climate-related Financial Disclosures' (TCFD) requirements that will allow investors and customers to understand our advanced strategies and initiatives firsthand.

## Minimizing our environmental

# impact



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Miguel Angel Fonseca, ECO Products Manager, Huelva

Case Studies:  
Innovation in Action

### Using co-products to reclaim land

Venator's manufacturing site in Scarlino, Italy is using a material produced during its manufacturing process for an environmental reclamation project. By taking gypsum produced during the production of TiO<sub>2</sub> and using it at a nearby former quarry, the company has helped recreate a landscaped and forested environment that's now teeming with biodiversity.

To further reduce waste to landfill and to contribute to the circular economy, the Scarlino site annually reuses approximately 200,000 tons of 'marmettola', a co-product from the marble industry, to produce its red gypsum.

The Scarlino site also supplies excess CO<sub>2</sub> to the food industry, which is then predominantly used in carbonated drinks and it produces iron sulphate that is used in numerous chemical and industrial applications.

To further reduce its waste, the team at Scarlino has been collaborating with an external third party to develop a new gypsum drying and granulation plant that will create gypsum for a wider range of applications.

### Zero waste equals increased business for Huelva site

Venator's Huelva, Spain, manufacturing facility is a global supplier of TiO<sub>2</sub> to major polymer producers.

Over the years, the Huelva site has eliminated its landfill waste by improving processes, processing co-products to create new ecoProducts that address environmental megatrends by helping to provide clean water, fertilize crops and feed animals.

In one such project aimed at reducing landfill waste, the Huelva site transformed 55kt of a co-product into a commercial product called Ironcal. The product is used in water treatment, combined heat and power plants, steam boilers, air compressors, vacuum compressors and as reagents.

The site also increased sales of ferric sulfate, with more than 3 million people benefitting from the sale of these co-products to several utilities that use it to convert wastewater into clean drinking water.

As a result of its efforts to create new products, the site has almost halved the waste it sends to landfill, and our ambition is to reduce it to zero.