

### Media Release

Vienna, Austria / Kallo, Belgium | 10 September 2019

# Borealis holds groundbreaking ceremony for its new world-scale plant in Kallo, Belgium

## New facility to secure supply of propylene for our European PP and customers

Borealis held the groundbreaking ceremony on 9 September for its new, world-scale propane dehydrogenation (PDH) plant. Located at the existing Borealis production site in Kallo, Belgium, the new facility will have a targeted production capacity of 750,000 metric tonnes per year of propylene, making it one of the largest and most efficient plants of its kind in the world. With a total of around EUR 1 billion invested in the course of the project, the investment is the largest ever made by Borealis in Europe. It underscores the company's commitment to its operations on the Continent, and to being the supplier of choice to its European customers.

# Enhanced competitiveness and sustainability for Borealis operations

PDH is a vital process step in the production of propylene from propane. As one of the most important building blocks for the entire chemical industry, propylene is the raw material used to produce polypropylene (PP), which in turn is one of the most widely used plastics. PP forms the base of countless industrial applications used in any number of sectors, including automotive, consumer goods, energy, food packaging, healthcare, and many others.

European demand for propylene is growing, yet presently, supply is decreasing due to a confluence of global market developments. The start-up of the new Kallo plant, scheduled for the middle of 2022, means that European customers will soon be able to rely on the secure supply of competitively priced propylene and its derivatives.

Several factors influenced the Borealis decision to invest in the Kallo location. First, the economies of scale offered by the Port of Antwerp in Flanders are significant due to its well-established transportation and logistics infrastructure. Thanks to the adjacency to an existing Borealis production unit on site, Borealis will be able to exploit additional synergistic effects. Crucially, the new PDH plant will employ Honeywell UOP's Oleflex™ technology, a widely used, reliable and sustainable choice for on-purpose propylene production.

Above and beyond the increase in production capacity, the new plant is helping make Borealis operations become more efficient and sustainable. Using the Oleflex technology makes it possible to consume less energy in production, yet produce higher volumes of the same quality. Less propane will be required, but more own hydrogen will be produced, enabling Borealis to supply not only its own

internal needs, but those of third parties as well. Finally, the embedded, multi-fuel cogeneration unit in the new PDH plant will generate a significant part of the steam and electricity required for operations.

# New facility boosts strategic importance of Northwest Europe for the chemical industry

The new PDH plant will create around 100 new full-time positions at Borealis, and two to three times as many at Borealis suppliers and contractors in the area. During the construction phase, an average of around 1,000 workers will be employed on site, with this figure spiking to over 2,000 during crucial building phases. Once the plant is operational, additional labour will be required for regular plant turnarounds taking place every several years. Advantageous knock-on effects are also expected for regional suppliers and other businesses in Flanders, as this significant Borealis investment boosts the overall strategic importance of the Port of Antwerp.

Borealis in fact won the Flanders Investment and Trade's 2019 Foreign Investment of the Year trophy earlier this year in recognition of the socio-economic importance of this investment for the region.

"The Borealis investment in the new Kallo plant is not only the largest investment we have ever made in Europe – it is also the most significant investment in Europe by a petrochemicals industry player in the last 20 years," says Borealis CEO Alfred Stern. "Investing in our European assets is a clear signal of our commitment to enhancing the efficiency and sustainability of our operations, but also to bolstering the region as an essential industrial hub."

### Select facts & figures – Kallo PDH plant construction

- Overall investment sum of approximately EUR 1 billion
- Total targeted plant capacity of 750,000 tonnes of propylene per year
- Construction commencing 2019, start-up planned for mid-2022
- Tecnimont was awarded the engineering, procurement, construction management (EPCM) contract as well as the commissioning services contract for the project
- Around 100 new full-time jobs will be created by plant
- Construction workforce numbers 1,000, with over 2,000 during peak periods

### Construction-related technical specifications

- Over 450 equipment installations, some of which are world-scale in size
- C3 Propylene Splitter tower over 100 m high and 10 m wide, weighing over 1200 tonnes; being shipped as one piece to Kallo
- Largest electrical motor is +/- 50 megawatt (MW)
- Over 5,000 new piles with an average length of 15 m
- Over 50,000 m<sup>3</sup> concrete poured
- Over 70 km of piping laid, with some pipes of up to 2 m in diameter
- Catalyst regeneration tower is highest steel structure on site, with a height of over 80 m; the largest of the seven tower modules delivered for installation weighs 270 tonnes





Photo: (f.l.t.r.) Borealis Executive Board Member Martijn Van Koten with CFO Mark Tonkens, Alderman Annick De Ridder (middle), Borealis CEO Alfred Stern, Executive Board Member Philippe Roodhooft and Ambassador Elisabeth Kornfeind (right). Photo: © Borealis

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Borealis is a leading provider of innovative solutions in the fields of polyolefins, base chemicals and fertilizers. With its head office in Vienna, Austria, the company currently has more than 6,800 employees and operates in over 120 countries. Borealis generated EUR 8.3 billion in sales revenue and a net profit of EUR 906 million in 2018. Mubadala, through its holding company, owns 64% of the company, with the remaining 36% belonging to Austria-based OMV, an integrated, international oil and gas company. Borealis provides services and products to customers globally, in collaboration with Borouge, a joint venture with the Abu Dhabi National Oil Company (ADNOC) and with Baystar<sup>TM</sup>, a joint venture with Total and NOVA Chemicals in Texas, USA. www.borealisgroup.com | www.borealiseverminds.com

