

CASE STUDY

# The first use of Borealis Bornewables™ in the energy industry

Borealis successfully developed the first energy cable using Bornewables™ materials for Tratos, a leader in electrical, electronic and fibre optic cable technology



In partnership with



## The challenge

In 2021, Tratos received an invitation to join a tender, from one of the leading Italian based integrated operators in the global electricity and gas markets. In the tender, a higher technical score is awarded to cable solutions that are built with sustainable materials and/or through a more energy-efficient process. Ultimately, the solution should reduce carbon footprint when implemented.

The leading integrated operator suggested that sustainable polyolefin sheathing compounds of vegetable origin for medium voltage (MV) and low voltage (LV) cables would be a viable solution.

## The solution

Borealis recognised that the outlined criteria could be met with the Bornewables™ solution. Bornewables is Borealis' portfolio of polyolefin products is manufactured with renewable feedstocks. According to the International Sustainability & Carbon Certification Plus (ISCC PLUS) classification, these premium polyolefins offer the same material performance as virgin polyolefins, but with a reduced CO<sub>2</sub> footprint. Borealis produces Borstar® Bn ME6053, based on the Bornewables, a natural, UV stabilised, colourable, medium-density (MD) jacketing compound.

With the help of Borealis, Tratos was the first of the tender invitees to offer a solution based on renewable feedstock. This key distinction set them apart from their competitors and helped them to win a considerable part of the bid.

**“We are very proud that we won this tender. With Borealis, we created a truly innovative and sustainable solution, which we hope will be the norm across all energy cable networks one day. Moreover, we know that with Borealis we are guaranteed great reliability, performance, and excellent customer support.”**

**Ennio Bragagni**  
Vice President  
Tratos





## The results

Tratos is supplying cables to the leading integrated operator who is in turn providing energy across the globe with a reduced CO<sub>2</sub> footprint thanks to the Borealis Bornewables™ solution.

Along with it being the first cable presented with a jacketing made from renewable feedstock, it delivered a bigger CO<sub>2</sub> footprint reduction per ton and with ICCS PLUS accreditation.

With the Bornewables solution, for a 185 mm<sup>2</sup> MV cable, Tratos reduced in 320 kg/km the CO<sub>2</sub> emissions when compared to traditional solution based on fossil feedstock.

**“The development of the first Bornewables cable to be used by an energy company is another example of Borealis and Borouge bringing energy all around, now in an even more sustainable manner. And this is just the first step towards a more sustainable future for cables and the wider energy industry as the successful Borealis solution can now be implemented in the market for many other cable manufacturers.”**

**Bart Verheule**  
Global Commercial Director Energy  
Borealis



**Borealis and Borouge polyolefin solutions are bringing energy all around**

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Borealis is one of the world's leading providers of advanced and circular polyolefin solutions and a European market leader in base chemicals, fertilizers and the mechanical recycling of plastics. We leverage our polymers expertise and decades of experience to offer value adding, innovative and circular material solutions for key industries. In re-inventing for more sustainable living, we build on our commitment to safety, our people and excellence as we accelerate the transformation to a circular economy and expand our geographical footprint.

With head offices in Vienna, Austria, Borealis employs 6,900 employees and operates in over 120 countries. In 2021, Borealis generated total sales and other income of EUR 10,153 million and a net profit of EUR 1,396 million. OMV, the Austria-based international oil and gas company, owns 75% of Borealis, while the remaining 25% is owned by a holding company of the Abu-Dhabi based Mubadala. We supply services and products to customers around the globe through Borealis and two important joint ventures: Borouge (with the Abu Dhabi National Oil Company, or ADNOC, based in UAE); and Baystar™ (with TotalEnergies, based in the US).

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