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Borealis and Borouge showcase sustainable Wire & Cable innovations at the WIRE 2022

- **Borlink™ HVDC technology plays a key role in energy transition projects worldwide including the German Corridors project**
- **Launch of first Borcycle™ M jacketing compound containing up to 50% post-consumer recycle**
- **Entire Borealis Wire & Cable portfolio to be ADCA-free by end of 2022**

Borealis and Borouge announce their presence at the 2022 WIRE trade show taking place from 20 to 24 June in Düsseldorf, Germany. A wide range of innovative technologies and material solutions for Wire & Cable will be highlighted. These success stories are testimony to how Borealis and Borouge's polyolefin innovations and customer centricity are helping drive the global transition to an energy future that is more sustainable.

Borealis Borlink™: the essential link in energy transition projects

As leading global innovators, Borealis and Borouge continue to provide customer-driven solutions in the wire and cable industry. The proprietary **Borlink™** high voltage direct current (HVDC) technology has enabled the use of extruded cable technology to reach higher voltage and transmission levels than ever before. This increases the capacity, efficiency, and supply security of power networks. Beyond passing pre-qualification up to 640 kilovolts (kV), Borlink delivers superior electrical performance, and provides long-running lengths and a minimum number of joints. What is more, the cross-linked polyethylene (XLPE) material offers the additional sustainability benefit of being recyclable.

The Borlink HVDC technology has established an impressive track record. It has been selected for use in numerous projects, including a large-scale offshore wind farm in Jiangsu province of China, and several offshore projects have been energised in the North Sea recently.

More than 8,000 cable kilometres based on Borlink HVDC XLPE technology have been laid with more than 8,000 kilometres in the pipeline.

The largest ongoing Borlink HVDC endeavour at present is the **German Corridors project**. This series of underground electricity transmission lines will carry power from renewable sources, such as offshore wind farms, over hundreds of kilometres with only minimal losses. Insulated XLPE underground cables made with a fully compounded HVDC cable material based on Borlink technology, at a voltage level of 525 kV, will be used in the majority of this large-scale project, specifically in the “SuedLink” and “SuedOstLink” portions.

The SuedLink has two power cable systems, each with 2 gigawatts (GW), and a cable length of over 2,500 km. The northern stretch of the SuedOstLink corridor has one 2 GW circuit and approximately 500 km of cable. Once completed, the German Corridors will have the capacity to transport 8 GW of green energy from the north to the south of Germany. This is comparable to the amount of power produced by 7-8 nuclear power reactors or as an example roughly twice the power need for Denmark.

Borouge’s High Voltage cable insulation grade secures Pre-Qualification Test Certifications

Another notable milestone, the Borouge-manufactured Borlink™ LS4201S has successfully passed Pre-Qualification Tests from leading test establishments, KEMA Labs and China Electric Power Research Institute (CEPRI). Passing the rigorous standards of KEMA Labs and CEPRI at 220 kV validates Borouge as a reliable supplier for high voltage cables. Intended for power cable applications in high stress HV applications with rated voltage up to 230 kV, Borlink LS4201S will meet the increasing demand for advanced high-quality energy solutions in the global market.

First-ever Borcycle™ M jacketing compound contains up to 50% post-consumer recyclate

Borealis has made great progress towards its goal of ensuring that by 2025, 100% of its consumer products are either recyclable, reusable, or made using materials from renewable sources. With the ongoing development of its first jacketing product, Borcycle™ M ME7153SY, made using material containing up to 50% post-consumer recyclate (PCR), its efforts to promote circularity now extend even deeper into its Wire & Cable business. This more sustainable jacketing innovation has been made possible by the proprietary **Borcycle M technology** which transforms plastic waste streams into value-added, high-performance solutions. As an ever-advancing and transformational technology for mechanical recycling, Borcycle M gives polyolefin-based, post-consumer waste a new life.

Preparations are currently underway for the first potential Borcycle M jacketing compound product launch in December 2022: Borcycle M ME7153SY is a natural medium-density polyethylene (MDPE), fully formulated jacketing compound. Intended for use in medium and low voltage cables, Borcycle M ME7153SY is easy to colour and offers good processability and smooth surface finishes. Its characteristics include good environmental stress cracking resistance (ESCR), UV resistance, and low water permeability.

Borealis pledges to become ADCA-free by 2022

The chemical compound azodicarbonamide (ADCA) is mainly used as a blowing agent in the production of polyethylene (PE) compounds used in data cables. It is classified as a Substance of Very High Concern (SVHC) by the European Chemicals Agency. Borealis has taken the decision to fully phase out all ADCA-based Wire & Cable products by the end of 2022.

A new ADCA-free high density polyethylene (HDPE) grade for coax cables, Borealis HE1116, will be introduced in 2022. Yet Borealis is already offering three ADCA-free grades to ensure that their customers have innovative and high-performing alternatives: the chemically foamed ADCA-free Borealis HE1355 and Borealis ME1254 grades for data cable production; and the physically foamed ADCA-free Borealis HE4883 for data cables. Borealis is among the first in the Energy industry to commit to phasing out all ADCA-based Wire & Cable products, and intends to do so by the end of 2022.

“A core aspect of our **EverMinds™** approach to accelerating action in the circular economy sphere is our commitment to developing more sustainable solutions that not only outperform conventional materials, but also make it possible to operate in a responsible way,” explains Bart Verheule, Borealis Global Commercial Director, Energy. “Our proprietary technologies like Borlink, Borstar®, and Borcycle are building blocks for innovation. We can even envision future Energy grades based on the **Bornewables™**, our portfolio of premium circular polyolefin products produced with renewable feedstock that is derived 100% from waste and residue streams - with this we’re re-inventing essentials for sustainable living. We are building on our track record of bringing energy all around by offering our customers a well-rounded portfolio of pioneering and high-performance solutions on a truly global scale.”



Photo: The first-ever Borcycle™ M jacketing compound Borcycle™ M ME7153SY, used in medium voltage cables similar to the one shown in the photo, contains 50% post-consumer recycle.

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Please visit Borealis and Borouge at WIRE Düsseldorf 2022, Hall 10, Stand D72, from 20 to 24 June.

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About Borealis

Borealis is one of the world's leading providers of advanced and sustainable polyolefin solutions and a European front-runner in polyolefins recycling. In Europe, we are a market leader in base chemicals and fertilizers. We leverage our polymer expertise and decades of experience to offer value adding, innovative and circular material solutions for key industries such as consumer products, energy, healthcare, infrastructure and mobility.

In re-inventing essentials for sustainable living, we build on our commitment to safety, our people, innovation and technology, and performance excellence. We are accelerating the transformation to a circular economy of polyolefins and expanding our geographical footprint to better serve our customers around the globe.

With head offices in Vienna, Austria, we employ 6,900 employees and operate in over 120 countries. In 2021, we generated total sales of EUR 12.342 EUR billion and a net profit of EUR 1,396 million. OMV, the Austria-based international oil and gas company, owns 75% of our shares, 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).

www.borealisgroup.com | www.borealiseverminds.com

About Borouge

Borouge, listed on the Abu Dhabi Securities Exchange (ADX symbol "BOROUGE" / ISIN "AEE01072B225"), is a leading petrochemical company that provides innovative and differentiated polyolefin solutions for the energy, infrastructure, mobility, advanced packaging, healthcare and agriculture industries. ADNOC owns a majority 54% stake and Borealis holds a 36% stake in Borouge.

To find out more, visit: www.borouge.com

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