News Release

Baystar Celebrates Groundbreaking for New Borstar® Polyethylene Unit in Pasadena, Texas

Unit will double site capacity and introduce new product to North America

Pasadena, Texas, February 28, 2019 — Bayport Polymers LLC (Baystar™), the 50/50 joint venture owned by Total Petrochemicals & Refining USA, Inc. (TPRI) and Novealis Holdings LLC - itself a joint venture co-owned by Borealis AG ("Borealis") and NOVA Chemicals Inc. ("NOVA Chemicals") - held its official groundbreaking ceremony for the construction of a new 625,000 metric ton-per-year Borstar® polyethylene unit at its production site in Pasadena, Texas, with an anticipated start-up in 2021.

The state-of-the-art Borstar technology, which will be used in North America for the first time, will allow Baystar to produce enhanced polyethylene products for the most demanding applications. Approximately 1,750 jobs will be created during the peak engineering and construction activity.

Baystar is also building a one-million-ton per year steam cracker in Port Arthur, Texas. The new cracker will process ethane, which is abundantly available and competitively priced in the U.S., and will supply feedstock for its existing 400,000-ton-per-year polyethylene units as well as the new Borstar® polyethylene unit in Pasadena.

"This new Borstar unit will more than double the site's capacity and allow Baystar to provide our North American customers with a greater range of high-value-added and resource-efficient products," said **Baystar President Diane Chamberlain**. *"The Port Arthur cracker and the new Borstar unit are tangible evidence of the power of partnership between Total, Borealis and NOVA Chemicals."*

Speaking at the ceremony, the three joint venture partners commented:

"With the ethane cracker project in Port Arthur now well underway, it is exciting to be here today with our partners Borealis and NOVA Chemicals to start the construction of the polyethylene unit here at Baystar," said **Christophe Gerondeau, President and Chief Executive Officer, Total Petrochemicals & Refining USA**. *"These two projects are a perfect example of Total's strategy to expand in petrochemicals where we can leverage cost-advantaged feedstock and capitalize on our integrated platforms such as Port Arthur."*

"Borealis is very pleased to be bringing our third-generation Borstar technology to the North American market for the first time," said **Borealis CEO Alfred Stern**. *"Baystar will profit from this superior technology, but also from our success in developing and sustaining ambitious joint ventures on a global scale. We are also glad to have found partners who share our commitment to safety at all levels of operations."*

"It's exciting to be here today as Bayport Polymers celebrates this next milestone. We look forward to having Borstar technology available in North America, which allows us to better serve

our customers with innovative products that help make everyday life healthier, easier and safer," stated **NOVA Chemicals CEO, Todd Karran**.

Total and NOVA Chemicals are founding members of the Alliance to End Plastic Waste, an alliance of nearly 30 companies from the plastics and consumer goods value chain committed to advance solutions to help end plastic waste in the environment, especially in the ocean. Borealis is a founding member of Project STOP, an initiative that aims to eliminate the leakage of plastics into the environment.

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ABOUT BAYSTAR™

Bayport Polymers LLC (Baystar™) is a joint venture 50% owned by Total Petrochemicals & Refining USA, Inc. (TPRI) and 50% owned by Novealis Holdings (a joint venture between Borealis and NOVA Chemicals). Baystar combines Total's expertise in operating major industrial platforms with the Borealis proprietary Borstar® technology and NOVA Chemicals' deep customer and technical expertise in polyethylene to deliver a broad range of products to help meet the growing global demand for plastic products. The joint venture includes an ethane-based steam cracker with a capacity of 1 million tons per year – a project initially developed by Total and currently under construction in Port Arthur, Texas – and a new 625,000 metric ton-per-year Borstar® polyethylene unit to be built in Pasadena, Texas. www.baystar.com

ABOUT TOTAL

Total is a major energy player, which produces and markets fuels, natural gas and low-carbon electricity. Our 100,000 employees are committed to better energy that is safer, more affordable, cleaner and accessible to as many people as possible. Active in more than 130 countries, our ambition is to become the responsible energy major. www.total.com

ABOUT BOREALIS

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 Bayport Polymers, a joint venture with Total and NOVA Chemicals in Texas, USA. www.borealisgroup.com

Borstar® is a registered trademark of the Borealis Group.

ABOUT NOVA CHEMICALS

NOVA Chemicals develops and manufactures chemicals and plastic resins that make everyday life safer, healthier and easier. Our employees work to ensure health, safety, security and environmental stewardship through our commitment to sustainability and Responsible Care®. NOVA Chemicals, headquartered in Calgary, Alberta, Canada, is wholly-owned, ultimately by Mubadala Investment Company of the Emirate of Abu Dhabi, United Arab Emirates. www.novachem.com

Responsible Care® is a registered trademark of the Chemistry Industry Association of Canada

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