



INNOVATION AND SUSTAINABILITY UPDATE

MAJOR HIGHLIGHTS DURING Q2 2024

August 2024

1.0


PROJECTS AND BUSINESS
GROWTH

NEW HYDROTREATER PLANT IN GELEEN SUCCESSFULLY COMMISSIONED & TREATS FIRST BATCH OF PYROLYSIS OIL



Advanced recycling at commercial scale at SABIC's world-first advanced recycling unit in Geleen, the Netherlands is now a significant step closer as our new hydrotreater plant has been successfully commissioned and has treated the first batch of pyrolysis oil, resulting in on-specification cracker feedstock which was then introduced into SABIC's OLE4 cracker. An evaluation will now be conducted to ensure the plant runs smoothly.

The SABIC wholly-owned hydrotreater is one part of an integrated process for advanced recycling. Here pyrolysis oil coming from the advanced recycling of post-consumer mixed plastic waste is upgraded to meet the requirements for use as an alternative feedstock for our crackers to produce SABIC's certified circular polymers from the company's TRUCIRCLE™ portfolio

 [Find out more](#)


ENGIE AND SOLARGE INSTALL LARGEST CIRCULAR SOLAR INSTALLATION AT SABIC IN GENK



ENGIE, Solarge and SABIC joined forces for a groundbreaking 2.4 MW solar installation at SABIC's site in Genk, Belgium. Unique to the solar panels is that they are 100% recyclable, weigh much less than traditional solar panels and are produced by Solarge in the Netherlands with materials from SABIC. The project is a first: never before in the world has an installation of this size been built with these panels.

The installation consists of approximately 4,700 panels, which will be installed on the roofs of the SABIC site in Genk. With a total capacity of 2.4 MWp, they will produce an average of 2000 MWh of green and local electricity per year, equivalent to the annual consumption of 667 households. SABIC will use 97% of the electricity produced in-house, covering approximately 5% of the local energy needs of its Genk site. Thanks to the solar panels, emissions of 800 tonnes of CO₂ per year can be avoided.

The solar panels are made with SABIC® PP (polypropylene) compounds. These materials ensure that the solar panels are 50% lighter and therefore extremely suitable for roof constructions. Moreover, the carbon footprint of these solar panels is a quarter lower, and they can be reused after 25 years: they are fully circular panels.

 [Find out more](#)

2.0

PRODUCT INNOVATION
AND COLLABORATION

SABIC SPOTLIGHTS AT PIAE 2024 MATERIAL SOLUTIONS FOR AUTOMOTIVE INNOVATION AND SAFETY



SABIC is highlighting at the 2024 Plastics in Automotive Engineering (PIAE) congress, which was held in Mannheim, Germany, a selection of specialty material solutions that can enhance automotive innovation and safety. The parts and samples at SABIC's exhibit attest to the company's continuing research, development and investment to promote the benefits of advanced thermoplastics. This strategy encompasses recycled and upcycled content for circularity, molded-in color for volatile emissions reduction, durability for longer useful life, and enhancement of driver assistance systems and electric vehicle battery packs.

 [Find out more](#)

SABIC DISPLAYS BREAKTHROUGH SOLUTIONS FOR ENERGY STORAGE AND DISTRIBUTION AT THE BATTERY SHOW EUROPE 2024




SABIC unveiled its newest thermoplastic solutions for batteries, electric vehicle (EV) technologies and energy storage at the Battery Show Europe which was held in Stuttgart,, Germany. They included a thermoplastic-metal DC-DC converter housing for EVs and a high-voltage battery pack enclosure. In these and many other applications, SABIC materials' design freedom and high performance can help customers cut weight, reduce manufacturing complexity, enhance safety and extend service life.

 [Find out more](#)

SABIC FEATURES SPECIALTY MATERIALS FOR ENERGY SECTOR TRANSFORMATION AT THE SMARTER E EUROPE




SABIC, is showcasing at the smarter E Europe 2024 a broad range of cutting-edge material solutions that can help accelerate the transformation of the energy sector. With innovative demonstrators and design concepts, SABIC's exhibit focuses on energy sourcing, supply and storage applications. Visitors can learn how specialty thermoplastics enable production scale-up and contribute to a sustainable energy future.

 [Find out more](#)

SABIC'S VERSATILE ULTEM™ RESINS, ON DISPLAY AT AIX 2024, SUPPORTING RECYCLING AND SUSTAINABILITY GOALS




SABIC highlighted its broad and diverse portfolio of ULTEM™ materials at the 2024 Aircraft Interiors Expo (AIX). To address the industry's sustainability goals, SABIC is showing how these different ULTEM material formats support mono-material designs that may simplify recycling. Furthermore, SABIC supplies ULTEM resin grades containing certified International Sustainability and Carbon Certification Plus (ISCC+) renewable feedstock.

 [Find out more](#)

**SPECIALIZED
SABIC® PP-UMS
FOAM RESIN CAN
HELP REDUCE
VEHICLE EMISSIONS
AND INCREASE
RECYCLABILITY**



SABIC spotlighted two diverse transportation applications that demonstrate the potential benefits of SABIC® PP-UMS (Polypropylene – Ultra Melt Strength) foam resin at NPE2024. This distinctive material features high melt strength for outstanding foamability and enables the extrusion of PP foams with very low density, excellent impact resistance and compliance with VDA 278 emissions regulations. Examples of these applications, on display at the SABIC booth, illustrate the suitability of this foam resin for broad use in transportation components that can benefit from significant weight reduction and potential cost optimization.

 [Find out more](#)

**SABIC TESTS SHOW
HIGH POTENTIAL OF
PHASE-CHANGE
THERMOPLASTICS IN
PREVENTING THERMAL
RUNAWAY IN EV
BATTERIES**




SABIC reported test results that underline the high potential of thermoplastic-based thermal runaway barrier solutions to help prevent fire spread in electric vehicle (EV) batteries. The SABIC sub-system level test series showed that a battery module box made from the company’s STAMAX™ 30YH570 long glass fiber polypropylene (PP) resin with intercellular thickness as low as 1mm has a potential to act as an effective thermal barrier solution by preventing thermal runaway propagation in 18650 cylindrical cells. It provides the necessary thermal insulation and flame resistance to reduce the chances of cell-to-cell propagation in a thermal runaway scenario and thus mitigate the risks of a catastrophic safety incident. This material in combination with compressible foams also has shown promising results to contain thermal runaway propagation in prismatic and pouch cells.

 [Find out more](#)

**SABIC INTRODUCES VALOX™ HX325HP
RESIN FOR HIGH-PRECISION DIABETES
MANAGEMENT DEVICES, OFFERING
EXCELLENT
PROCESSABILITY
& CHEMICAL
RESISTANCE**




SABIC announced the availability of VALOX HX325HP resin, a new high-performance, medical-grade, injection molding polybutylene terephthalate (PBT) resin. Developed especially for high-precision parts, such as components of insulin delivery pens, insulin pumps, auto-injectors and continuous glucose monitors, this new resin combines outstanding processability with high chemical resistance and validated biocompatibility.

 [Find out more](#)

**NPE2024: SABIC SHOWCASING
PROGRESS IN PLASTIC INNOVATION
FOR A MORE
SUSTAINABLE
FUTURE**




SABIC highlighted at NPE2024 in May in Orlando, Florida, a wide range of solutions that demonstrate the value of plastics for a more sustainable future. Under the theme “Collaborating to Create the Future,” the company presented innovative solutions that are available today and others that are on their way to broader adoption. This includes examples of the company’s work with manufacturers and others across the value chain on circular plastic solutions available under its TRUCIRCLE™ program and new approaches with plastics under its BLUEHERO™ initiative that can help in the shift to electrification.

 [Find out more](#)

SABIC AND CYBERSHIELD TEAM UP TO ADVANCE USE OF PLATED ULTEM™ RESIN IN AIRCRAFT PARTS




SABIC announced its collaboration with Cybershield, Inc., a U.S. supplier of metalized plastic components, to advance the use of plated ULTEM™ resins in aerospace applications. Through this collaboration, which was featured at NPE2024 and the 2024 Aircraft Interiors Expo (AIX), SABIC's team shared with Cybershield their extensive expertise on injection molding of high-heat ULTEM resins. This training prepared Cybershield for successfully molding ULTEM 2310 resin into backshells for electrical connectors that are well suited for use in audiovisual (AV) control modules for commercial aircraft.

 [Find out more](#)

SABIC LAUNCHES CERTIFIED LOW CARBON CHEMICALS WITH CO2 FOOTPRINT SAVINGS



SABIC announced the launch of its new certified low carbon product portfolio. As part of the company's 2050 carbon neutrality pledge, this innovation will help support customers and other value chain actors to achieve their sustainability goals by providing access to products with lower product carbon footprint.


 [Find out more](#)

3.0

AWARDS AND
RECOGNITIONS

SABIC receives EcoVadis Gold medal for its sustainability performance

SABIC retained its Gold Medal from EcoVadis, a leading global provider of business sustainability ratings. The EcoVadis assessment evaluates 21 sustainability criteria across four core themes of environment, labor, ethics and sustainable procurement. Gold places SABIC among the top 5% of the companies manufacturing basic chemicals, fertilizers and nitrogen compounds, plastics and synthetic rubber rated by EcoVadis over the past year. Many customers consider EcoVadis ratings in the criteria for supplier selection.

 [Find out more](#)



SABIC Fujian Petrochemical Complex recognized as the Top 10 “Investing in China” Outstanding Cases 2024

SABIC’s Fujian Petrochemical Complex (Sino-Saudi Gulei Ethylene Complex Project) was honored as the Top 10 “Investing in China” Outstanding Cases 2024, recognized by China Media Group (CMG), the national broadcasting group under the Publicity Department of the CPC Central Committee and made up of China Central Television (CCTV), China Radio International (CRI) and China National Radio (CNR).



SABIC RECEIVES OCEAN PLASTIC “GOLDEN APPLE” AWARD AT CHINAREPLAS 2024

SABIC is honored with the "Golden Apple Award" in Ocean Plastic category in ChinaReplas 2024 held by the China Plastics Recycling and Reuse Association (CPRRA). This marks SABIC's third time winning this award, indicating our remarkable contributions and strength in innovation in the field of plastic recycling and reuse in China market.

