

TV-Service – Seeing is believing

BASF in motion

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Half-Year Financial Report 2020

Conference Call, Jul 29, 2020

We work on finding solutions for future challenges in the areas of urban life, nutrition and energy. We show you our top innovations, the latest products, and provide you with an overview of our worldwide Verbund sites.

Footage material

As the world's leading chemical company, we believe strongly in the emotional appeal of film as a way of making innovations and solutions come alive before the viewer's eyes. Of course, as a journalist you can't be everywhere, but we can help bring you a little closer to our world.

00'04

(01) Digitalization in production

Control station Intermediates



Digital applications including augmented and mixed reality are helping BASF to make maintenance and production processes more efficient. Interactive 3D projections of objects such as system parts and plant components provide location-independent access to key information, facilitating better decision-making and optimizing knowledge transfer.

The modern control station in the intermediate products plant at the Ludwigshafen site is where all information relating to the plant comes together. Using numerous screens, the plant operators control and monitor the highly complex chemical processes. On the

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“Collaboration Board”, a large touchscreen in the center of the room, the employees call up all the important information at the same time..

02'34

(02) Carbon Management

Synthesis gas direct conversion - Preparation of a test catalyst



Climate protection is firmly embedded in BASF's new corporate strategy. A central goal of this strategy is to achieve CO₂-neutral growth until 2030. To accomplish this, BASF is continuously optimizing existing processes, gradually replacing fossil fuels with renewable energy sources and developing radically new low-emission production processes. The company is bundling all of this work in an ambitious Carbon Management program.

New Catalysts for Clean Olefins. Olefins are intermediate substances for the production of cleaning materials, aroma chemicals or superabsorbents. New process technologies and catalysts can reduce the carbon footprint of olefin production by up to 50 percent.

05'04

(03) Energy Management

BASF Schwarzheide GmbH - Aerial shots



The Schwarzheide plant's modular design and infrastructure allows for the rapid scale-up of manufacturing capacities enabling BASF to meet increasing customer demand for the European EV market. This state-of-the art plant will produce cathode

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active materials (CAM) with an initial capacity enabling the supply of around 400,000 full electric vehicles per year with BASF battery materials.

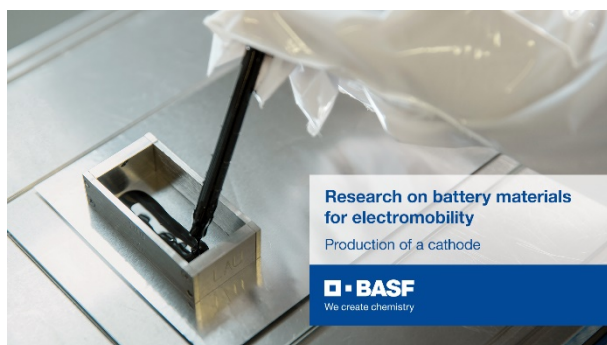
The site in Schwarzheide uses an energy-efficient gas and steam turbine power plant that operates on the principle of combined heat and power generation. Until the battery materials plant is commissioned, the integration of renewable energies is also planned. The Harjavälta plant, which supplies precursors (PCAM), will utilize renewable energy resources, including hydro, wind and biomass-based power. This advantageous energy mix will provide CAM material with a very low CO2 footprint.

07'24

(04) Energy Management

Research on high-performance battery materials

Production of a cathode



Electromobility is an important contribution towards addressing global mobility needs – especially in combination with renewable energy. Lithium-ion batteries are used in the majority of today's electric vehicles. BASF is conducting global research on innovative cathode materials, one of the most important components of these batteries.

Cathode materials essentially determine efficiency, reliability, costs, durability and the size of the battery. Their properties enable speed, acceleration and power – from compact cars to SUVs, from trucks to buses. BASF's research includes the synthesis of cathode materials (including precursors), characterization of material properties and performance testing. At the same time, experts are working on components for next-generation batteries, such as all-solid-state batteries.

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09'54

(05) BASF Verbund site Nanjing
Plant facilities / Impressions



The integrated petrochemical composite at Nanjing is a 50:50 joint venture between BASF and China Petroleum & Chemical Company (Sinopec). It is located close to the Yangtze River in Luhe District of Nanjing Municipality. The Verbund system achieves extremely efficient production and safety by clustering plants and re-using by-products. Within Nanjing Chemical Industry Park (NCIP), BASF-YPC enjoys a favorable environment for further expansion as well as synergies with neighboring enterprises.

The site annually produces three million tons of high-quality chemicals and polymers for the Chinese market, serving rapidly growing demand in multiple industries such as agriculture, construction, electronics, pharmaceutical, automotive or chemical manufacturing.

12'02

(06) BASF Verbund site Ludwigshafen - PolyTHF® plant
Daily inspection tour and sampling



BASF is globally the most important supplier of polytetrahydrofuran (PolyTHF®). This multifaceted intermediate is primarily used to make elastic spandex fibers for a wide variety of textiles, including swimsuits, sportswear, underwear and outerwear.

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PolyTHF® also serves as a chemical building block for thermoplastic polyurethanes (TPU), used to make hoses, films and cable sheathing mainly for the automotive industry. Other applications include thermoplastic polyetheresters, polyetheramides and cast elastomers for the production of (for example) wheels for skateboards and inline skates.

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