

# TV-Service – Seeing is believing

## BASF in motion

[tvservice.basf.com](http://tvservice.basf.com)

## Full-Year 2019 Results

Press conference, February 28, 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) 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.

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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.

**02'34**

## **(02) BASF Innovation Campus - Shanghai**

Performance Polymers Research Lab



**The Performance Polymers Research Lab focuses on materials research for engineering plastics, including formulation and process development, as well as new chemical structure design and synthesis. Lab members prepare for a new research project.**

BASF is one of the world's leading producers of high-quality plastics. Research teams across the globe are systematically developing the properties of plastics to open up diverse applications in automotive, electrical & electronics and packaging industries.

**04'46**

## **(03) BASF Schwarzheide GmbH**

Aerial shots BASF site Schwarzheide



**BASF is announcing a new battery materials production site in Schwarzheide, Germany, as part of its multi-step investment plan to support the European electric vehicle (EV) value chain. Innovative cathode materials by BASF increase the performance of batteries and promote the success of climate friendly mobility.**

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

## 06'58

### (04) Research on high-performance battery materials

Synthesis of a precursor for a cathode material in the laboratory



**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.

## 09'06

### (05) BASF Innovation Campus - Shanghai

Polyurethanes Research Lab



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Polyurethane is a polymer made from reaction of diisocyanates (MDI and/or TDI) and polyols. Polyurethane is used in a wide variety of applications to create all manner of consumer and industrial products.

Two lab managers check the quality of viscoelastic polyurethane foam. The density of a foam product depends on the type and amount of blowing agent, and the flexibility or rigidity on the structure of polyols and isocyanates involved.

**11'26**

## **(06) Digitalization in production**

Control station Intermediates



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.

We are increasing the effectiveness of our plants and the efficiency of our production processes through the use of digital technologies and data. On the "Collaboration Board", a large touchscreen in the center of the room, the employees call up all the important information at the same time.

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