

TV-Service – Seeing is believing

BASF in motion

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Virtual Annual Shareholders' Meeting 2020

June 18, 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's "Helping Hands" campaign

Production



With several initiatives of the "Helping Hands" campaign BASF supports the fight against the Corona pandemic. BASF wants to help overcome the current bottleneck for hand sanitizer. To make this possible, certain preconditions have been fulfilled over the past few days to allow medical disinfectants to be produced at the Ludwigshafen site itself. BASF has been granted a special permit by the Ministry of Health of Rhineland-Palatinate. BASF is committed to fighting the pandemic worldwide with a total of approximately €100 million.

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BASF produces some of the raw materials that can be used to manufacture disinfectants at its Ludwigshafen site. Other necessary raw materials are purchased externally by BASF. BASF has reallocated several metric tons, in particular of isopropanol, to the production of hand sanitizers. In addition, BASF has started production of hand sanitizer based on ethanol and bioethanol.

02'28

(02) Carbon Management

Synthesis gas direct conversion - Installation 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.

04'48

(03) BASF Verbund site Ludwigshafen

Aerial shots



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As the headquarters of BASF, it is the cradle of the Verbund concept, where production facilities, energy flows and logistics are networked together intelligently in order to utilize resources as efficiently as possible. With around 250 production facilities, hundreds of laboratories, technical centers, factories and offices in an area of approximately ten square kilometers, the site is the largest integrated chemical complex in the world.

BASF's largest logistics center, with a total area of 120,000 square meters, is located in the northern part of the site Ludwigshafen. It handles one million pallets a year which makes it Europe's largest logistics center for packaged chemicals.

07'26

(04) Digitalization in production

HoloLens - Augmented Reality



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 “Augmented Reality” application supports employees at our plants in their daily tasks. Through the application, they have direct and quick access to necessary information via especially equipped mobile devices, such as tablets or smartphones.

State-of-the-art HoloLens® glasses are used in a plant for intermediate products at the Ludwigshafen site in order to plan and implement plant modifications in a fast and cost-efficient manner.

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09'58

(05) Research on high-performance battery materials

Production of a mini test battery (pouch cell): Assembly



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.

Materials for both lithium-ion and all-solid-state 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.

12'32

(06) 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 active

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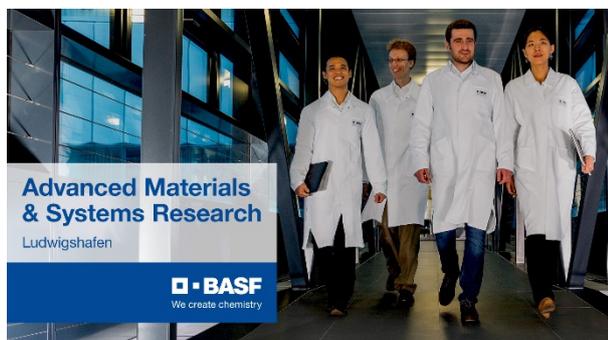
materials (CAM) with an initial capacity enabling the supply of around 400,000 full electric vehicles per year with BASF battery materials.

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 Harjavalta 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.

12'50

(07) Advanced Materials & Systems Research

Creative solutions and efficient research through short paths



In the Advanced Materials & Systems Research division, BASF develops new structural materials, dispersions, functional materials as well as organic and inorganic additives for a wide range of customer industries including automotive, construction, packaging, paints, detergents and cleaning products, pharmaceuticals, cosmetics, water and the wind industry.

A bridge, shortening paths, interconnects the two buildings of the research complex. Furthermore, open communication areas facilitate exchange between the scientific disciplines. This stimulates creative ideas and benefits the efficient development of effective solutions.

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