

TV-Service – Seeing is believing

BASF in motion

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Quarterly Statement 1st Quarter 2020

Conference Call on April 30, 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 Ludwigshafen

Aerial shots



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.

For further information:

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02'42

(02) BASF's "Helping Hands" campaign Delivery



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.

In addition to hospitals, BASF now also supplies the disinfectants to towns, cities and administrative districts in the Metropolitan Region Rhine-Neckar, which in turn provide them to other local institutions, especially nursing homes.

02'50 BASF's chauffeur service: delivery of disinfectants directly to the medical practice

03'41 BG Klinik Ludwigshafen: delivery of disinfectants

04'27 DRF-Base Mannheim: use of hand sanitizers

04'56

(03) BASF's "Helping Hands" campaign Production



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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.

07'40

(04) 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.

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10'14

(05) PolyTHF[®] plant at the Ludwigshafen site

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.

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.

12'50

(06) Advanced Materials & Systems Research

Modern methods of investigation for understanding of new materials



Atomic force microscopy (AFM) provides diverse data of the investigated samples. These data need to be interpreted in a meaningful way, because the true value of the experiment is exploited in their relation to the desired materials and application properties.

The heart of an atomic force microscope for surface investigation is the palm-sized scanner unit. It steers a scanning tip, mounted on its end, with sub-nanometer-precision, providing a spatial resolution that corresponds to the size of individual atoms.

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15'04

(07) Carbon Management

Synthesis gas direct conversion - Evaluation 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.

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