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Half-Year Financial Report 2019

Ludwigshafen, July 25, 2019

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 Port Arthur

Steamcracker

BASF TOTAL Petrochemicals LLC is a joint venture between BASF Corporation and Total Petrochemicals & Refining USA, Inc. The Port Arthur facility operates one of the largest steam crackers in the world, turning naphtha and light hydrocarbons into ethylene, propylene and other chemical raw materials.

Steamcracker

Cracker products are the building blocks of the chemical industry and the starting materials for numerous processing industries. These basic products for the processing industry are used in end

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products that help to meet demand for clothing, food, housing and mobility as well as medication and personal care items.

02’36

(01) BASF Verbund site Ludwigshafen

TDI plant

The toluene diisocyanate (TDI) plant at Ludwigshafen site has an annual capacity of 300,000 metric tons and comprises plant components that produce DNT (dinitrotoluene), TDA (toluylendiamine) and TDI (toluene diisocyanate).

TDI is a core component for polyurethanes. It is often used in the furniture industry (elastic foams for mattresses, cushions or wood coating) and the automotive industry (seat cushions).

05’06

(03) The nitric acid plant at the Ludwigshafen site

Control of the process control technology

The nitric acid Verbund in Ludwigshafen is at the core of the site. Nitric acid is a strong oxidation agent. As such, it is an important raw material for the chemical and pharmaceutical industry. Nitric acid is mainly used for etching and for the production of luminescent substances and pure nitrates.

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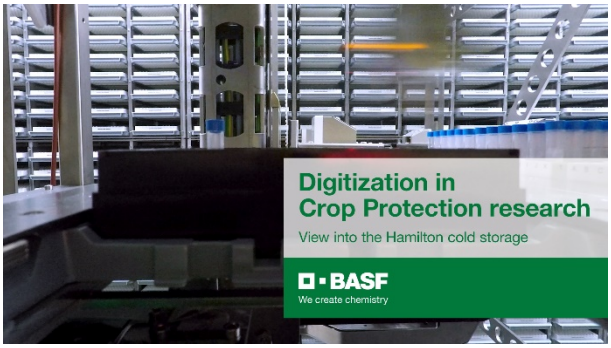
Control of the process control technology

In the course of digitization, tablets have been successfully used here since 2015. This can significantly increase efficiency in key operational processes, such as complex measurement and control test processes and start-up and shut-down processes.

07’36

(04) Digitization in Crop Protection research

Hamilton cold storage / sample preparation



Crop Protection research is time-consuming and expensive. Usually it takes 11 years for a new product to enter the market as well as an average investment of 250 million euros. That is why many routine research steps are carried out by robots.

Robots in search of new active substances

By using robots monotonous work steps can be carried out precisely over a long time. The repetitive accuracy of robots is of great value here, saving time and increasing efficiency. This allows laboratory experts to concentrate on more demanding tasks.

10’08

(05) Shaping the future of electromobility: Research on high-performance battery materials

Production of a mini test battery (pouch cell): Cathode material, assembly & Test

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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.

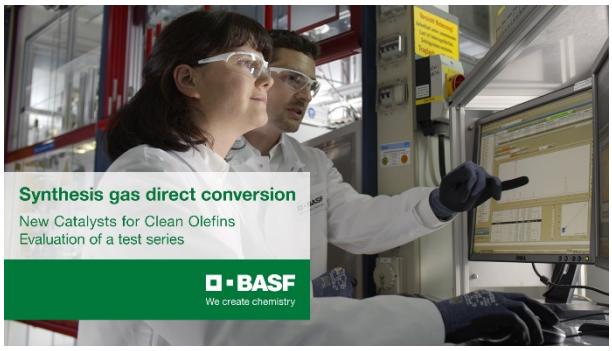
Materials for both lithium-ion and all-solid-state batteries

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.

12'16

(06) 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 CO_2-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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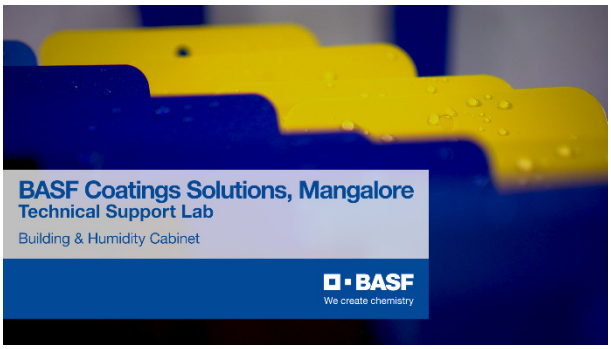
14’46

(07) BASF Coatings Solutions, Mangalore, Indien

Technical Support Lab – Humidity Cabinet



The Mangalore site is BASF’s largest manufacturing site in India and in South Asia. Operational since 1996, it is currently engaged in the production of performance chemicals, dispersions and paper chemicals, automotive coatings, coil coatings and construction chemicals.

The “Technical Support Lab” will add to the core competencies that legacy BASF Coatings (India) Private Limited has already set up at the Mangalore site. This facility at Mangalore supports lab activities including product development, analytical testing, certification and new pigment qualification, catering to the Coatings customers of BASF outside of India.

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