

## Seeing is believing

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### Corporate headquarters in Ludwigshafen – Composite Europe

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.

#### World champion in efficiency

This creates efficient value chains in Ludwigshafen, from basic chemicals to highly refined products such as paints and pesticides. At the same time, the system helps to save on raw materials and energy, minimize emissions, reduce logistics costs and exploit synergies.

#### (01) Aerial shots: Overview of the factory site

09/01/2016; 07:24; A1/A2: direct sound; FullHD



The Ludwigshafen site is the cradle of the Verbund idea. It was here that the idea was conceived and continuously further developed. The Verbund helps BASF to handle resources more efficiently.

The two steamcrackers, the synthesis gas plant and the acrylic acid works are core elements of the Verbund. They are the beginning of innumerable value chains and their products are further processed into thousands of commercial products through further process steps.



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### (01 S1) Overview of the factory site

00:06 – 03:40

Overview of the factory site  
Überblick über das Werksgelände

The power plant North delivers steam and power for the Verbund site Ludwigshafen. All BASF power plants work according to the principle of the power-heat coupling to use the primary energy as efficiently as possible. With over 85 percent their energy efficiency level is very high. Over the past few years, a lot of effort has been put into reaching this high level of efficiency.

### (01 S2) Flight along the factory site

03:40 – 07:24

Flight along the factory site  
Flug entlang des Werksgeländes

In the northern part of the BASF site Ludwigshafen is the tank field located. Totally 68 tanks supplies save and efficient store production goods such as Methanol and Naphtha. The field is able to store 212.000 cubic meters of liquids and approximately 40.000 cubic meters of pressure-liquefied gases. The logistics center are handled over 45.000 transports each year.



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### (02) Aerial shots: Aerial shots: Productions facilities and buildings

09/01/2016; 08:12; A1/A2: direct sound; FullHD

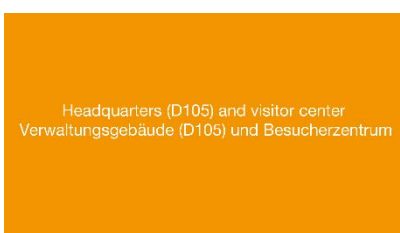


**With around 250 production facilities, hundreds of laboratories, technical centers, factories and offices in an area of approximately ten square kilometers, the site is the largest integrated chemical complex in the world.**

BASF's largest logistics center 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. With a total area of 120,000 square meters the warehouse has a size that is equivalent to twenty football pitches.

### (02 S1) Headquarters (D105) and visitor center

00:06 – 02:10



The new office and conference building D 105 is located in the southern part of BASF's Verbund site Ludwigshafen. The seven floors offer space for 1,300 employees and a modern conference center. Many innovative BASF products were used for the construction of D 105.



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### **(02 S2) Steamcracker**

*02:10 – 04:04*

Steamcracker

The steam cracker II has an area of around 64,000 square meters making it the size of thirteen football fields and the biggest single plant at the site in Ludwigshafen. The cracker is also the core of the Verbund. The steam cracker II has been working since 1981. It separates naphtha basically into ethylene and propylene using 850-centigrade hot vapor. Ethylene and propylene are indispensable building blocks for the production of many products in Ludwigshafen.

### **(02 S3) Logistics center, intermodal transport terminal, port**

*04:04 – 06:48*

Logistics center, intermodal transport terminal, port  
Logistikzentrum, Kombiverkehrsterminal, Hafen

Since the commissioning in 2000 the Intermodal Transport Terminal in Ludwigshafen makes it possible to connect the transportation with trucks and trains in an environmentally friendly and cost-effective way. The advantage: long distances can be covered by rail in an environmentally friendly way. The Intermodal Transport Terminal covers around 260,000 square meters and boasts thirteen tracks for handling goods. It is spanned by eight gantry cranes at a height of around 20 meters. Up to 500,000 load units can be handled here each year.



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### (02 S4) Wastewater treatment plant

06:48 – 08:12

Wastewater treatment plant  
Kläranlage

BASF's wastewater treatment plant at the site in Ludwigshafen is one of the largest in the world. It was put into operation in December 1974 and has been continuously improved and kept to the newest technical standard. In the plant almost 100 million cubic meters of production wastewater from BASF is purified annually. The plant also purifies another 20 million cubic meters of wastewater from the cities of Ludwigshafen and Frankenthal as well as from the municipality Bobenheim-Roxheim. It is capable of purifying a volume of wastewater of around three million people in private households.

### (03) Aerial shots: Factory site at night / Rhine bridges

09/01/2016; 08:12; A1/A2: direct sound; FullHD



Many innovations started life in Ludwigshafen, from the pioneering work in dye production in the nineteenth century to the Haber-Bosch process for the manufacture of ammonia to today's extremely versatile high-performance plastics.



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Seven of BASF's thirteen company divisions have their headquarters at the Ludwigshafen site. The site is also home to numerous units that provide services to the entire BASF Group; for example in personnel, finance, law, technical engineering, site management, investor relations, communications, as well as environment, health and safety.

