



Digitizing Energy Efficiency in Germany

Market Overview and Moderation



GERMANY
TRADE & INVEST

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Digitizing Energy Efficiency in Germany

Speakers





DEUTSCHE UNTERNEHMENSINITIATIVE ENERGIEEFFIZIENZ

Digitizing energy efficiency in buildings

Henning Ellermann | Head of Energy Efficiency in Buildings





Digitizing energy efficiency in industry

Juergen Ritzek | Business Director

Digitizing Energy Efficiency in Germany

Q&A session after the presentations...



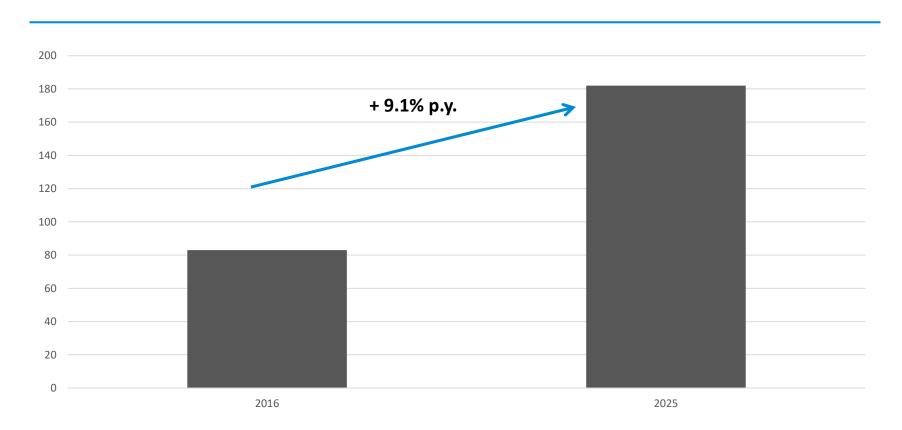
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Energy Efficiency Market in Germany

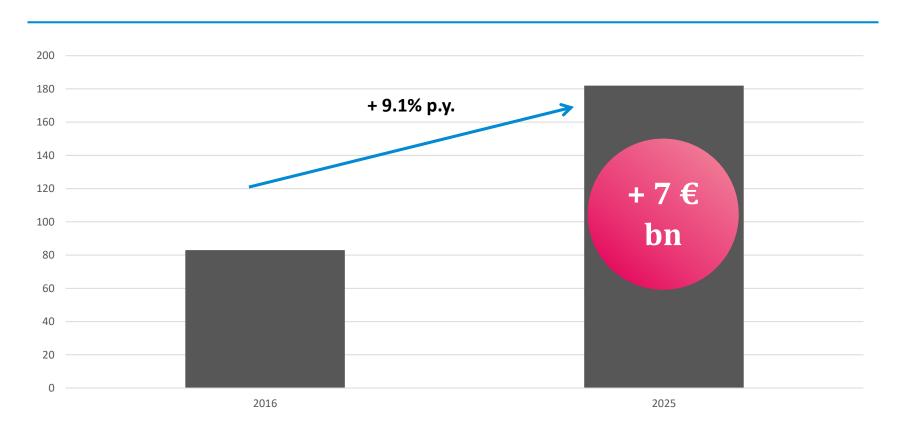
Current market volume and forecast (€ bn)



Source: GreenTech made in Germany 2018 / Roland Berger

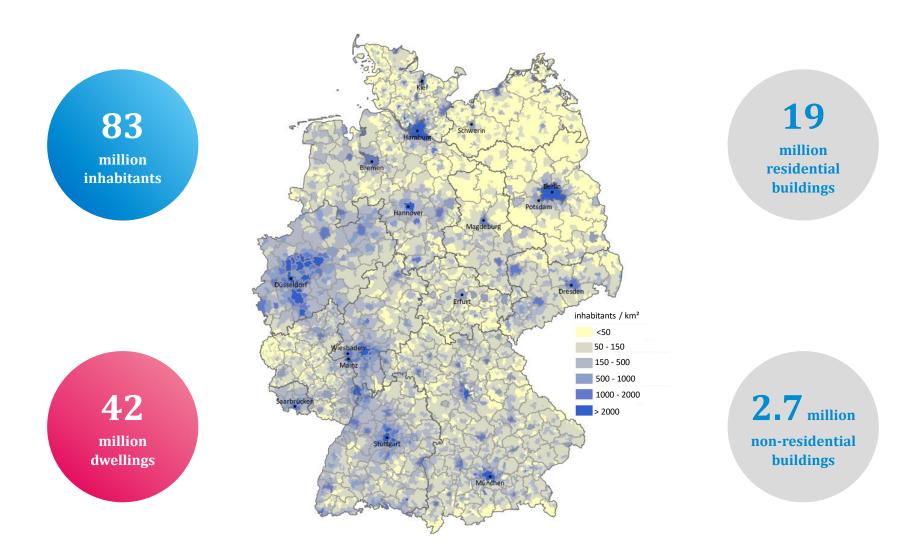
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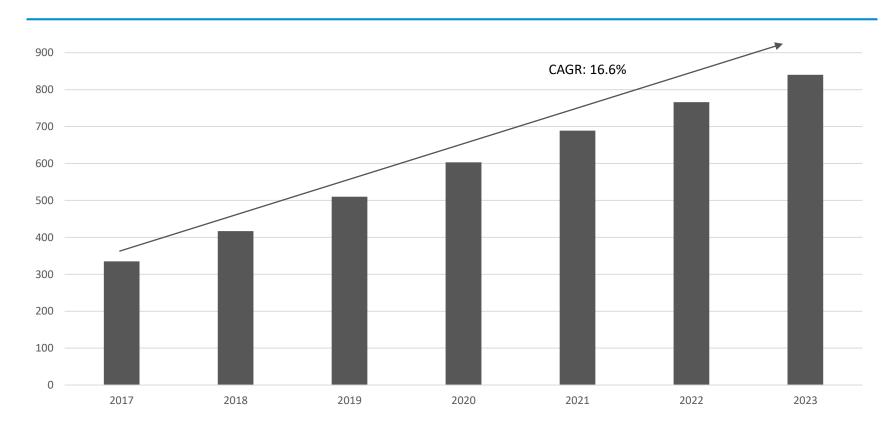
Overview of the German Building Sector



Sources: BiB, Federal Statistical Office, dena

Growth in the BEMS sector

Market size and forecast for the smart home / energy management sector (in € m)



Source: Statista September 2019

Relevant Policies for Energy Efficiency in Buildings

Information

Information campaign

Regulation

- Energy saving act (EnEV)
- Renewable Energies Heat Act (EEWärmeG)
- New: Buildings Energy Act (GEG)

Incentive programs

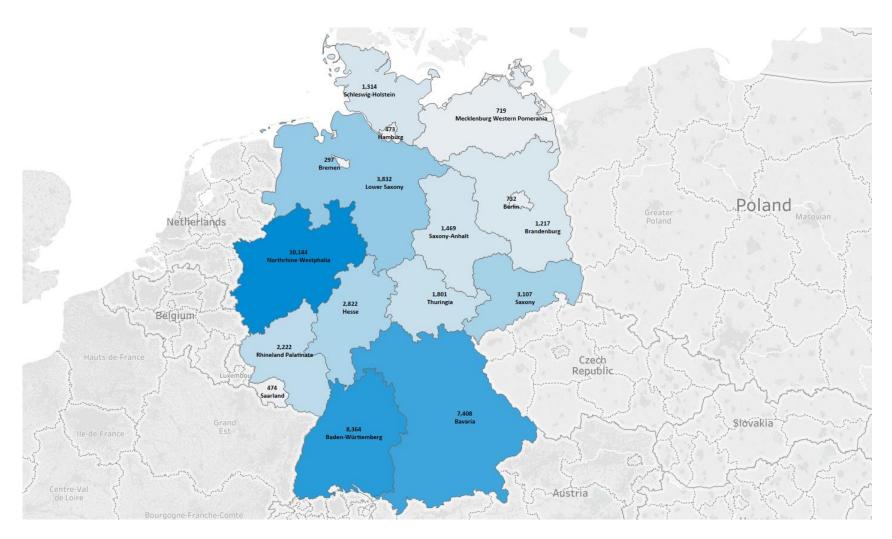
- KfW energy efficient buildings and renovation
- smart home / smart meter
- Energy saving meter

Price & tax instruments

- Tax breaks for energy-efficient renovation
- "replacement bonus"
- CO₂ pricing for the heating sector

Overview of the German industry

Number of production sites in manufacturing industry by Federal State



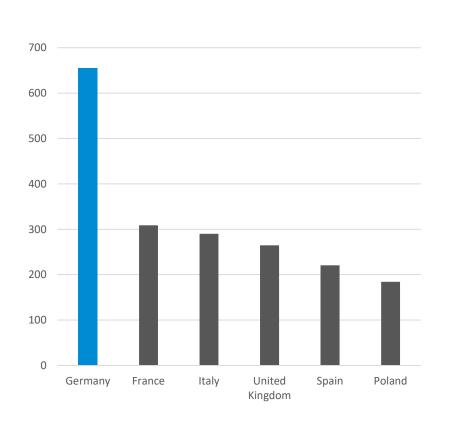
Source: Statistical Office (Destatis) 2018

Overview of the German industry

Largest industry in Europe invests massively in energy efficiency

Final energy consumption in industry

2017, in TWh





Source: Eurostat, April 2019 Source: Federal Statistical Office, August 2019

Relevant Policies for Energy Efficiency in Industry

Information

- Information campaign
- Energy efficiency networks

Regulation

 EDL-Act: compulsory energy audits for non-SMEs

Incentive programs

- Energy efficiency in business
 - Module 3
- Energy saving meter
- Energy efficiency competition

Price & tax instruments

- Special equalization scheme
- Electricity tax cap

Get in touch!

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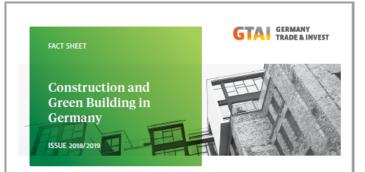
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Germany is Europe's leading construction market and home to the continent's largest building stock. A number of drivers have created impressive growth in the construction and heating, ventilation, and air conditioning (HVAC) sectors that is expected to continue in the coming gram. Solar-thermal installations were down in 2017, with years. Germany offers a fantastic investment landscape and a buoyant sales market for international companies with innovative energy- and resource-efficient solutions.

Growing Construction Market

growth in recent years with investments expected to increase factors such as climate change, increasing urbanication, and further still. Federal Statistical Office figures show the sector's revenues increased by 7.5 percent in 2016. Although the German construction market is highly consolidated, strong growth presents International companies with an opportunity to enter the market with innovative products and services. Residential buildings are responsible for the ilon's share of market activity. The enduring attractiveness of the new-build sector is reflected in the high number of building permits being issued. Estimates suggest that between 350,000 and 400,000 new dwellings need to be built every year to meet demand, with Germany's seven largest cities (Berlin, Munich, Hamburg, Cologne, Frankfurt, Stuttgart, and Dusseldorf) under particular pressure to build. Despite the bright outlook for new construction. DW Berlin (German Institute for Economic Research) expects new growth to shift gradually towards work on existing building stock, where growth of six percent and more than seven percent is expected in 2018 and 2019 respectively.

Robust HVAC Market

2017 was a strong year for Germany's HVAC sector. According to BDH German heating industry association figures, more than 700,000 heating systems were sold in the German market - a plus of three percent on 2016. Gas-fired condensing boilers remained the most commonly installed heating technology, with almost half a million units sold in 2017 (four percent year-

on-year increase). Some 78,000 heat pumps were sold during the same period (17 percent increase). More than 1,500 fuel cell units were installed in German basements in 2017, the majority co-funded under the government's market introduction pro-625,500 square meters installed over the year.

Market Growth Drivers

Demographic change, economic confidence, and attractive government incentives are just some of the local factors The German construction market has experienced substantial driving construction market activity in Germany, Global digitals ation (e.g. BIM and BEMS) are also moving the German building industry. Furthermore, the circular economy and resource efficiency are playing an increasingly important role in Germany's construction sector.

> Investment in Construction 2007 and 2015 in EUR billion (rounded values)



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INFORMATION ENERGY EFFICIENCY





THE LATEST DEVELOPMENTS IN GERMANY'S ENERGY EFFICIENCY MARKET

FRANCO-GERMAN WASTE HEAT RECOVERY PROJECT TECHNICALLY FEASIBLE

A feasibility study commissioned by the Ministry of the Environment, Climate Protection and the Energy Sector of the state of Baden-Württemberg has shown it would be possible to use waste heat from a steel mill in the city of Kehl (Germany) to supply 4500 households in the city of Strasbourg (France).

NEW COMPETITIVE ENERGY EFFICIENCY FUNDING PROGRAM

Germany's Federal Ministry for Economic Affairs and Energy (BMWi) has launched a new competitive energy efficiency funding program for businesses.

RETROFITTING AND SMART HEATING SOLUTIONS RECEIVE ENERGY EFFICIENCY AWARD

The 2019 Perpetuum Energy Efficiency Prize of the German industry association for energy efficiency DENEFF was awarded to the companies ecoworks GmbH (jury prize) and vilisto GmbH (audience prize).

Q&A





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