



ISH Energy 2019 in Frankfurt – Hall 12, booth C40 **Enter a digital networked future with Bosch** Energy solutions for commercial and industrial applications

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Frankfurt – At ISH Energy, the world's leading trade fair for sanitary, building, energy, air conditioning technology and renewable energies, Bosch is continuing to promote digitalisation and networking in the commercial and industrial sectors. Fast, simple, unbureaucratic and agile – customers in project business have high expectations for reaction times, flexibility and planning support. Bosch therefore relies on smart tools and uses intelligent configurators. One brand new example is the automatic preparation of project-specific 3D data and P&I diagrams. Being available in very early stages of projects this makes work simpler for planners and plant engineers. This enables them to perform more precise calculations and avoid later changes.

Bosch is launching their new planning guide for steam boiler systems as an interactive digital version. The fundamental idea: Make planning of complex process heat systems easier and make expert knowledge comprehensively available. With programmed calculation tools, checklists and practical error prevention information, the new interactive document is more than a typical planning handbook. "It doesn't just provide beginners with the information they need – it also serves as an efficient working tool for experienced planners," emphasises Daniel Gosse, Head of Marketing and Academy at Bosch Industrial.

Smart control technology and AI assistants for Industry 4.0 applications

Preventing production downtimes and reducing energy costs to a minimum are key drivers for businesses and industries. The energy management solutions from Bosch Energy and Building Solutions enable overall optimisations including energy generation, distribution and whole production lines. The Energy Platform at the trade fair booth gives you a live view of selected Bosch production sites. Recorded energy and process data is transformed into significant figures in order to increase energy and resource efficiency. What's more, Bosch Rexroth is

presenting control solutions for this type of future-proof automation system for buildings and factories.

With artificial intelligence specifically designed for industrial boilers, the digital efficiency assistant MEC Optimize really stands out from the crowd. Predictive maintenance features monitor and present operating data. Additionally, the smart algorithms interpret the data and inform users in advance about potential downtime risks. With individually determined information and recommended actions, system operators are assisted in maximising their system availability and minimise their energy costs.

Product innovations for steam, heat, power and compressed air

Highly efficient, compact and easy to operate – at the ISH trade fair, Bosch will present the new CSB Universal steam boiler (compact steam boiler), which is available in a power range from 300 to 5,200 kilograms steam per hour. The CSB steam boiler will be presented at the Bosch trade fair booth as a complete boiler system with low-NO_x burner, modules for waste heat recovery and the compact steam control CSC mounted on the boiler. The boiler achieves a high efficiency of more than 95 per cent and enables sustainably low emissions. Its innovative design additionally provides easy accessibility for servicing and maintenance work.

At the ISH 2019 the Bosch booth features the largest boiler of the entire trade fair. The ZFR double-flame tube boiler generates up to 55 tons of steam or up to 38 megawatts hot water. Visitors can actually step inside the boiler or even go upstairs to the VIP lounge on its top floor. Besides the process heat systems, Bosch will also present innovative combined heat and power systems. In this sector, the customer focus is also on digitalisation through control technology or remote access in order to optimise reliability and operating costs. At their ISH booth, Bosch will show a combined heat and power unit from the latest motor generation. It is optimised to provide particularly high overall efficiency and future-proof low emissions. The compressed air and heat system is another highlight. It produces compressed air using a natural gas motor and simultaneously provides waste heat for additional processes and heating applications. This enables CO₂ emissions savings of up to 50 per cent and lowers operating costs.

International industry solutions

Bosch offers reliable energy solutions in more than 140 countries worldwide. Typical applications include the food and beverage industry, production industry, energy suppliers and large buildings or public facilities. Availability, efficiency and seamless integration into the customer's processes are essential. Bosch

demonstrates these qualities at the ISH trade fair at different information points. Additionally, visitors can see real boiler houses and energy centres from a range of industries using a 360° virtual reality headset.

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Bosch Thermotechnology is a leading European manufacturer of energy-efficient heating products and hot water solutions. In fiscal 2017, the company generated sales of about 3.4 billion euros (67 percent outside Germany) and employed approx. 14,400 people. Bosch Thermotechnology has strong international and regional brands and manufactures a diversified product range in Europe, America and Asia.

Additional information is available online at www.bosch-thermotechnik.de

The Bosch Group is a leading global supplier of technology and services. It employs roughly 410,000 associates worldwide (as of December 31, 2018). According to preliminary figures, the company generated sales from operations of 77.9 billion euros in 2018. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 69,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, [www.twitter.com/BoschPresse](https://twitter.com/BoschPresse).