

Press Release

Heating and cooling for the future: E.ON becomes energy partner for Messe Berlin and ensures climate-friendly heating and cooling supply

- E.ON ensures a sustainable supply for the exhibition grounds through new construction and conversion work
- Messe Berlin benefits from considerable energy and cost savings

The energy company E.ON and Messe Berlin are jointly implementing a future-oriented energy-saving project: by 2025, E.ON will convert the cooling and heating supply of the exhibition grounds to climate-friendly technologies. In the future, various heat sources will work in combination and, in addition to significant energy, CO₂ and cost savings, will also ensure greater independence from individual energy sources. The conversion will take place during ongoing operations and is a technologically highly demanding project.

“At Messe Berlin, we take climate protection very seriously. Optimizing our energy consumption has been a central concern for years and has become even more important as a result of the climate targets set by the German government, the state of Berlin and the current energy crisis,” says Dirk Hoffmann, Managing Director of Messe Berlin GmbH. “By switching to a climate-friendly and cost-efficient heating and cooling supply, we are taking an important step towards greater sustainability in our operations.”

“Here in Berlin, we show how the heat transition can work in existing buildings and can be intelligently designed with digital, forward-looking energy concepts. This is indispensable for climate protection, for security of supply and also for the affordability of energy,” says Patrick Lammers, E.ON Board Member for Customer Solutions. “The heat transition is often still not being given the required level of attention today, even though the heating sector accounts for over 50 per cent of energy consumption in Germany. This makes projects like this all the more important.”

CO₂ emissions, energy consumption and costs significantly reduced

The planned new buildings and conversions and the associated coupling of the heating and cooling supply will enable Messe Berlin to benefit from a new form of efficient energy use. Around two thirds of the existing waste heat from trade fair operations can be recycled and used in the future. The digitalization of the entire energy system and continuous monitoring of all buildings and halls on the exhibition grounds can achieve additional efficiency gains.

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On site, E.ON experts are replacing part of the previous natural gas and oil-based heat supply with a new modern pellet boiler system. Some of the existing heat generation plants are being modernized to cover peak loads. This means that in future at least 50 per cent of the heat generation will be CO₂-neutral from renewable energies. In addition, the team is working with Messe Berlin to bring the system hydraulics in the energy centres and in the entire heating and cooling network up to the latest technical standard – especially with the aim of lowering the temperatures in the heating network.

Four new chillers with a total capacity of 46 megawatts will be used for the cooling supply. In addition, waste heat is efficiently used to generate cold in a new absorption plant. All work is being carried out in stages during ongoing operations. After the conversion, an energy supply contracting agreement will be concluded for a period of 15 years, whereby Messe Berlin will benefit from stable prices and planning security.

This will not only result in significant cost savings, but also a considerable reduction in CO₂ emissions amounting to around 5,400 tons per year. In addition, E.ON's new energy concept already takes into account the possible integration of further renewable energies in the future. One of Germany's largest rooftop solar power plants is currently being built on the hall roofs of Messe Berlin. The solar power generated here could also be used in the future to supply cooling and heating. For E.ON, the project is an important step in its growth offensive in Berlin.

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