

PRESS RELEASE

Duisburg, 15. October 2024 - In August 2024, the Fraunhofer Institute for Microelectronic Circuits and Systems (IMS) received certification in accordance with the DIN EN ISO 50001:2018 standard for energy management.

With this certification, the IMS is committed to systematically increasing energy efficiency and reducing energy consumption - an important step towards sustainable resource utilisation and climate protection. The ISO 50001:2018 standard defines a structured framework for energy management that enables organisations to continuously monitor and optimise their energy consumption.

Due to its industry-related semiconductor research, the IMS is one of the larger energy consumers within the Fraunhofer-Gesellschaft. This step is therefore of particular importance. By introducing an energy management system (EnMS), the IMS is taking on a pioneering role and making a significant contribution to the implementation of the Fraunhofer climate strategy, which aims to significantly reduce the company's carbon footprint by 2030.

Sustainable measures to reduce CO₂ emissions

As part of the energy management system, the IMS has introduced various measures to increase energy efficiency. These include modernising the clean room with new ventilation technology, which saves 740 MWh of electricity and 360 MWh through heat recovery every year - this corresponds to a reduction of 65 tonnes of CO₂. Another measure is the renewal of the compressed air generation system, which saves 350 MWh of electricity and 290 MWh of district heating per year, reducing CO₂ emissions by 33 tonnes. With these steps, the IMS is making an important contribution to conserving resources and actively supporting the Fraunhofer-Gesellschaft's climate targets.

‘The successful ISO 50001:2018 certification is a milestone on our path to greater sustainability,’ says Prof Dr Anton Grabmaier, Director of Fraunhofer IMS. ‘It confirms our efforts to combine technological innovation and environmentally conscious behaviour by paying particular attention to

the energy consumption of cleanrooms. We are thus taking on a key role in the Fraunhofer-Gesellschaft.'

However, this is just the beginning: the institute plans to introduce further measures to increase energy efficiency and expand the use of renewable energies.

About Fraunhofer IMS

Smart Sensor Systems for a safe, secure, and sustainable future: In numerous state-of-the-art research laboratories, Fraunhofer IMS works with more than 250 talented scientific employees and students on innovative microelectronic solutions. As a trusted research and development partner for industry, the institutes' goal is to develop customized sensor systems for your specific needs in the areas of biomedical sensors, optical systems, open source semiconductors, embedded AI, technology services, and even quantum technology. The teams in the four business units – Health, Industry, Mobility, and Space and Security – are committed to implementing outstanding and versatile microelectronics that can be utilized across all your projects. For example, these solutions feature high integration capability, enormous energy efficiency and reliable functionality even under harsh conditions.

www.ims.fraunhofer.de/en.html

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