

## **Press information**

# Recognition for efforts to achieve climate neutrality: Kuraray raises energy efficiency by 16 percent

Kuraray has been awarded the AGEEN quality seal for its commitment to the Rhine-Main Energy Efficiency Network. 16 percent improvement in energy efficiency at the KURARAY POVAL™ polyvinyl alcohol production plant.

Frankfurt/Höchst, January 2020. Industry plays a key role in meeting the German government's climate targets. Kuraray, a leading manufacturer of speciality chemicals, is aware of its responsibility and works continuously to optimise energy efficiency and reduce  $CO_2$  emissions at its production sites at Höchst Industrial Park in Frankfurt am Main and in Troisdorf. Kuraray is now sharing its experience in the third Rhine-Main Energy Efficiency Network and has been granted the AGEEN quality seal for its commitment. Intelligent process control, heat integration in solvent recovery and innovations in the transport of materials have brought a substantial improvement in energy efficiency of up to 16 percent at Kuraray's production lines in Frankfurt since 2011.

"As a leading speciality chemicals producer, making sure we respect the environment is very important to Kuraray. Therefore, we constantly strive to optimise energy consumption and emissions at our sites," says Dr. Jörg Schappel, Head of Quality Management at Kuraray in Europe. "In the Rhine-Main Energy Efficiency Network, we can share our experience with other companies in the region and work together to make our activities more sustainable and environment-friendly." The network was initiated by the City of Frankfurt's energy department. Alongside Kuraray, there are six other members - including Lufthansa subsidiary LSGG Sky Chefs, Infraserv Höchst and pharmaceuticals manufacturer Sanofi-Aventis. As a network partner, Kuraray has now been awarded the AGEEN quality seal. This seal of approval is awarded by AGEEN, the German association of energy efficiency networks, to companies that work towards more efficient use of energy resources.

A strong tool and an interdisciplinary team for energy-saving processes Kuraray has already made good progress in energy efficiency. One major milestone was the introduction of an ISO 50001-compliant integrated energy management system in 2013. A key element is an interdisciplinary team of experts from management, production, and the process control, process technology and controlling departments. This team works on solutions to enhance energy efficiency at the production sites. "Our energy management system is an effective tool to help us move continuously towards climate-

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neutrality," says Dr. Jörg Schappel. "Steadily improving our processes is an important area of focus."

## Optimising processes, leveraging potential

One example is distillation, which is used to recover solvents from production processes. Optimum regulation of the distillation process used to separate substances has brought a noticeable reduction in energy consumption. Moreover, intelligent integration of heat enables the facility to convert 70 percent of primary energy sources into secondary energy for use in other process steps. Another project is a pneumatic conveyor system in pipes at the Frankfurt-Höchst site to transport powder and granulates from production plants to the silos used for interim storage and to filling stations. Better networking of the compressors that generate the necessary pressure means that Kuraray can regulate the system in line with need, resulting in a significant reduction in energy consumption.

"Process improvements and technical innovations have improved the energy efficiency of the production of Mowital® polyvinyl butyral in Frankfurt by 14 percent on the past eight years. And in the production of KURARAY POVAL™ polyvinyl alcohol, we have improved energy efficiency by 16 percent," reports Dr. Jörg Schappel. "We want to build on this success and work with our partners in the energy efficiency network and with the City of Frankfurt's energy department to achieve our goal of making Frankfurt climate-neutral by 2050."

Captions/source of photos: AGEEN, energy department of the City of Frankfurt, Kuraray



[Photo 1] Honoured for improving energy efficiency: Kuraray works constantly to reduce energy consumption and  $CO_2$  emissions at its production sites. For its contribution to the Rhine-Main Energy Efficiency Network this speciality chemicals producer has now been granted the AGEEN quality seal by German association of energy efficiency networks (AGEEN). (Photo/logo:  $\bigcirc$  Arbeitsgemeinschaft der Energieeffzizienz-Netzwerke Deutschland)

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[Photo 2] A strong climate-focused network: The Rhine-Main Energy Efficiency Network initiated by the City of Frankfurt is a regional platform for cross-sector cooperation on energy efficiency. Alongside Kuraray, it comprises six other companies - including Lufthansa subsidiary LSG Sky Chefs, Infraserv Höchst and pharmaceuticals manufacturer Sanofi-Aventis. (Photo: © Energiereferat / Holger Menzel)



[Photo 3] Energy-saving transport to the silo: An interdisciplinary team at Kuraray is committed to making facilities and processes at the company's production sites more efficient. One example is improved networking of the high-pressure conveyor system at Höchst Industrial Park that transports powders and granulates from the Mowital® and KURARAY POVAL™ production facilities via pipes between process steps and to the silos used for interim storage. The energy required for this has been reduced significantly by improved networking of the compressors.

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#### **About Kuraray**

Established in 1991, Kuraray Europe GmbH is based in Hattersheim, near Frankfurt am Main, Germany. In 2018 the company generated annual sales of EUR 690 million. It has approximately 700 employees in Germany at its sites in Hattersheim, Frankfurt and Troisdorf. Kuraray is a global speciality chemicals company and one of the largest suppliers of industrial polymers and synthetic microfibres for many sectors of industry. Examples are KURARAY POVAL™, Mowital®, Trosifol® and CLEARFIL™. Kuraray Europe also has around 200 employees at six other European sites. They are also working on the development and application of innovative high-performance materials for a wide range of sectors, including the automotive, paper, glass and packaging industries, as well as for architects and dentists.

Kuraray Europe is a wholly owned subsidiary of the publicly listed Kuraray Co., Ltd., which is based in Tokyo, Japan, and has more than 10,000 employees worldwide and sales of EUR 4,8 billion.

The press release and photos are also available on our website: https://www.kuraray.eu/company/media

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