Pioneer in climate protection: Lenze project awarded by KlimaExpo.NRW

Gelsenkirchen/Paderborn, February 23rd, 2016. The it's OWL technology concept not only makes a contribution to intelligent machines and systems, but also to resource efficiency and climate protection. This is underlined by the fact that the "Energy-efficient intralogistics" project by Lenze was awarded as best practice example by the KlimaExpo.NRW.

Utilize energy transition, climate protection and adaptations to the effects of climate change as driving forces of a sustainable development for economy and society. This objective is pursued by the state government of North Rhine-Westphalia. In the four thematic fields Rethinking Energy, Saving Resources, Enhancing Communities and Shaping Mobility, a total of 1,000 projects will be presented by 2022, illustrating the technological and economic potential of North Rhine-Westphalia in a particular way and encouraging imitation.

Direct comparison between innovative and conventional technology. Standard commercial engines were installed on the left side and the bottom of the demonstrator; the more efficient project engines were installed on the top and the right side. Picture: Lenze

The Leading-Edge Cluster Project "Intelligent drive and control technology for energy-efficient intralogistics (IASI)" is one of approximately 100 pioneer projects being awarded at the launch of the initiative. Developed in cooperation with the companies Lenze and Weidmüller as well as the Ostwestfalen-Lippe University of Applied Sciences and the Fraunhofer IOSB-INA, the research project has been awarded as best practice example in the "Saving Resources" category. The aim of the project is to develop an intelligent modular system for efficient drive solutions, making it possible to provide the most environmentally-friendly and economical solution for every warehouse drive process. The developed drive

solutions can be easily implemented, saving up to 30% of energy and with little or no increase in investment. For a market penetration of 10%, there would be CO2 savings of around 870,000 tonnes-only for Germany.

"A lot of electrical energy can be saved where a lot is consumed. Therefore, we have taken on conveyor drives, which are used in the tens of thousands at logistics centres and warehouses. Our efficiency drives can simply replace the existing ones, save 15 to 40% of energy and are not much more expensive. This allows an enormous energy savings potential to be achieved." Prof. Dr.-Ing. Holger Borcherding (Lenze SE).

Climate protection in OWL

The project is representative for numerous exemplary contributions by OWL to the topic of climate protection and resource efficiency. To make these contributions more transparent and present them as part of the KlimaExpo.NRW are the tasks of the OstWestfalenLippe GmbH. A selection will be presented in the "Climate protection in OWL" brochure.

The OWL GmbH is a regional partner of the state initiative, working together with Energy Impulse OWL, the Detmold district government, the regional authorities and the chambers on the regional strategy for participating in the Expo.

Setting good examples for climate protection (from left): Klaus Meyer (Managing Director Energie Impuls OWL), Wolfgang Jung (Managing Director KlimaExpo.NRW) and Herbert Weber (Managing Director OWL GmbH). Source: OWL GmbH

Further information
Lenze Innovation project (IASI)
KlimaExpo.NRW Pioneer projects

Source: The technology network; Intelligente Technische Systeme OstwestfalenLippe. Germany – it's OWL.