

PRESS RELEASE

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Kalyon and Fraunhofer ISE Sign MoU for Research on Integrated Photovoltaics and PV Storage Technologies

In conjunction with the 4th Turkish-German Energy Forum, Kalyon Güneş Teknolojileri Üretim A.Ş. and the Fraunhofer Institute for Solar Energy Systems ISE signed a Memorandum of Understanding (MoU) today at the German Federal Ministry of Economic Affairs and Climate Action BMWK in Berlin, Germany. In the MoU both parties reaffirm their intent to cooperate in the field of agrivoltaics as well as in other integrated photovoltaic technologies and PV storage technologies. Over the next three years, Kalyon plans to invest at least nine million US dollars in research contracts and joint research projects with Fraunhofer ISE.

"The solar industry and particularly photovoltaic (PV) module manufacturing are already well established in Turkey, and we are looking forward to being able to advance innovative PV technologies with Kalyon," says Prof. Dr. Hans-Martin Henning, director of Fraunhofer ISE. "Both the integration of photovoltaics into areas already being used for other purposes, along with an improved linkage between electricity storage and solar power generation, are becoming increasingly important as PV expansion progresses."

The cooperation between Kalyon and Fraunhofer ISE will include joint research projects as well as contract research and information exchanges to promote technology transfer. The two partners will focus on photovoltaic integration. Agrivoltaics, that is the simultaneous use of agricultural land for crop harvesting and electricity production, shall be the first focus of the MoU. The partners also see significant potential in other applications such as the integration of PV in building envelopes, road canopies, noise barriers, parking lots, electric charging stations and vehicle bodies. Here integrated photovoltaics can unleash considerable synergy potential that goes beyond the mere production of electricity.

As a third area of cooperation, the energy company Kalyon and the solar research institute Fraunhofer ISE aim to collaborate on coupling photovoltaics with battery storage systems which are used for plug-and-play applications, off-grid systems and also for increasing the share of solar self-sufficiency in PV systems, for example.

FRAUNHOFER INSTITUTE FOR SOLAR ENERGY SYSTEMS ISE



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Haluk Kalyoncu, chair of board, Kalyon (left) and Prof. Dr. Hans-Martin Henning, director of Fraunhofer ISE (right) sign a Memorandum of Understanding (MoU), stating the intent to collaborate in the fields integrated photovoltaics and PV-storage technologies. © Fraunhofer ISE

The Fraunhofer-Gesellschaft, based in Germany, is the world's leading organization for application-oriented research. With its focus on key technologies of relevance to the future and on the exploitation of results in business and industry, it plays a central role in the innovation process. As a guide and stimulus for innovative developments and scientific excellence, it helps shape our society and our future. Founded in 1949, the organization currently operates 76 institutes and research facilities in Germany. More than 30,000 employees, most of them trained in the natural sciences or engineering, produce the annual research volume of 2.9 billion euros. Of this, 2.5 billion euros is spent on contract research.