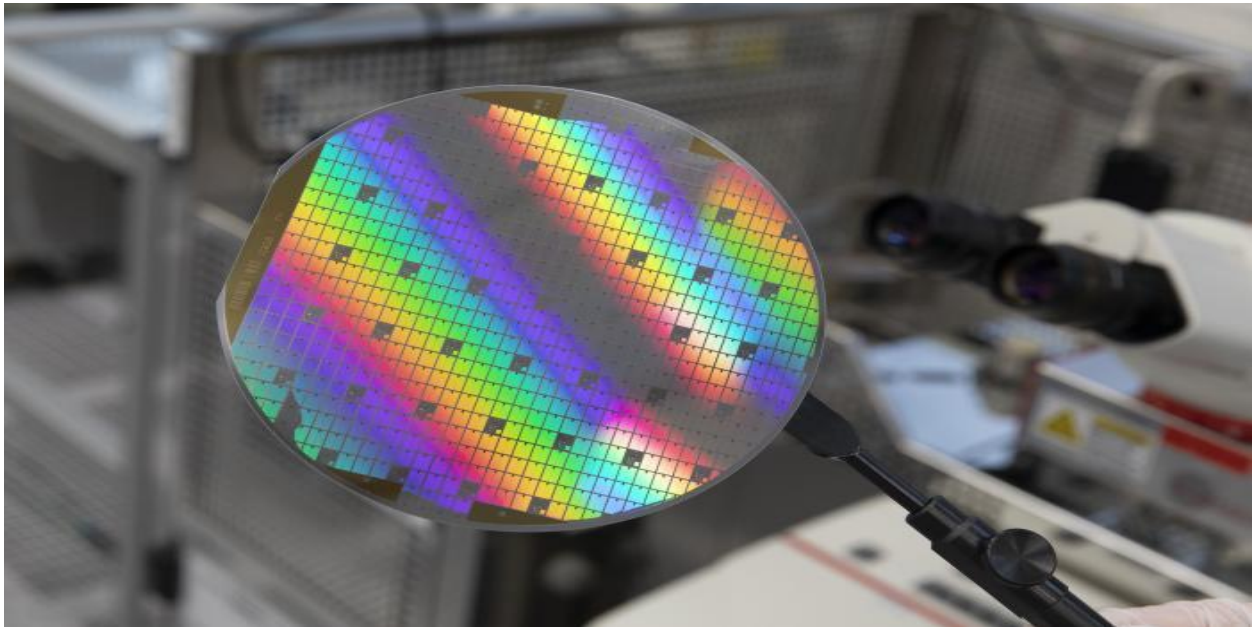


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Transform project: a consortium to create silicon carbide semiconductors - November 12, 2021



The goal of the publicly funded “Transform” (Trusted European SiC Value Chain for a greener Economy) project is to create a resilient European supply chain for silicon carbide semiconductor technology (compared to traditional silicon chips , experts believe that up to 30% energy can be saved, depending on where the components are used), that spaces from wafers and other base materials to finished devices with SiC power semiconductors and power electronics applications . In a Bosch-led consortium, a total of 34 companies, universities and research institutes from seven European countries joined forces to make this happen. The project, which will run until 2024 and funded with public funds, covers five use cases in the automotive, renewable energy and agriculture sectors.

Demand for this technology is set to grow rapidly, in particular for energy-intensive applications such as electric vehicle propulsion systems, charging stations and energy supply infrastructure. A forecast by market research and consulting firm Yole indicates that between now and 2025, the SiC market as a whole will grow an average of 30% annually to over \$ 2.5 billion. The Transform project will therefore also address the development of new SiC technologies, as well as the necessary manufacturing methods and

processes. Furthermore, it will aim to ensure the availability of machinery and equipment for the production of this technology from European suppliers.

Over 89 million euros have been allocated for this project, subsidized by the European Union and national bodies. The project brings together key players in Austria, the Czech Republic, France, Germany, Italy, Spain and Sweden. Partner companies include, among others: Aixtron, Danfoss, EV Group, Premo, Saint-Gobain, Semikron, Soitec, STMicroelectronics and Valeo-Siemens Automotive. The various scientific organizations participating include the Brno University of Technology, the CEA Leti Institute, the Fraunhofer IISB and the University of Seville.

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