

The next-generation silicon-based power solutions in mobility, industry and grid for sustainable decarbonisation in the next decade

PROJECT DETAILS

Funding Programme: H2020 and national funding from Germany, Austria, Spain, Finland, Hungary, Slovakia, Netherlands, Switzerland.
Sub-Programme: ECSEL Joint Undertaking
Funding Scheme: Innovation Action

Project Reference (Grant Agreement Number): 826417
Project Duration: 36 months (from 2019-06-01 to 2022-05-31)

Total Project Budget: € 74.257.768'75
Total EU Grant-Aid: € 16.917.242'46
UniOvi Budget: € 515.883'75

Website: <https://www.infineon.com/cms/en/product/promopages/power2power/>

CORDIS link: <https://cordis.europa.eu/project/id/826417/es>

PROJECT DESCRIPTION

The objectives in Power2Power aim to foster a holistic, digitized pilot line approach by accelerating the transition of ideas to innovations in the Power Electronic Components and Systems domain. In the course of this project, the international leadership of the European industry in this segment will be strengthened by means of a digitized pilot line approach along the supply chain located entirely in Europe; working together with multiple organizations, combining different disciplines and knowledge areas in the heterogeneous power-ECS environment. Only these comprehensive efforts will allow reaching a high-volume production of smart power electronics to change the market towards energy-efficient applications to meet the carbon dioxide reduction goals of the European Union. Consequently, economic growth and Tackling grand societal challenges “Energy” and “Mobility” lead to safeguarding meaningful jobs for European citizens. Silicon-based power solutions will outperform new materials (SiC, GaN) for many more years in terms of cost-to-performance-ratio and reliability. Thus, the Silicon-based power solutions will keep innovating and growing the upcoming years. On a long run the project Power2Power will significantly impact the path to the industrial ambition of value creation by digitizing manufacturing and development in Europe. It fully supports this vision by addressing key topics of both pillars “Key Applications” and “Essential Capabilities”. By positioning Power2Power as innovation action, a clear focus on exploitation of the expected result is a primary goal. Smart energy utilization with highly efficient power semiconductor-based electronics is key in carefully utilizing the scarce resources. Energy generation, energy conversion and smart actors are these application domains where advanced high voltage power semiconductor components primarily impact the path toward winning innovations.

This project has received funding from the ECSEL Joint Undertaking (JU) under grant agreement No 826417. The JU receives support from the European Union's Horizon 2020 research and innovation programme and Germany, Austria, Spain, Finland, Hungary, Slovakia, Netherlands, Switzerland.



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