# Romania microgrid design

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The project aims to boost the increase number of microgrid systems implemented at national level, supporting sustainability in the use of green technologies by increasing efficiency in local energy production and use, facilitating direct transactions between production and the consumer. This should reduce the load on the transmission lines, increasing the operational safety and microgrid energy efficiency.

On medium term, SIS will use this expertise as an advantage to be involved in the development of smart microgrid projects and the provision of a smart microgrid controller, including all associated services. On the long temp, we expect to develop asset management solutions, including maintenance, services, to be sold to microgrid owners or operators. This will contribute to the sustainability of the project.

The Smart MicroGrid Controller (Smart uGC) project approach is oriented towards the development and demonstration of a design methodology that allows the control, interconnection and integration of microgrids in the main network.

The Smart uGC project will lay the foundations for the microgrid pilot. This will be built using new technology with his brain based on a smart controller that developed by the SIS SA company, with new and innovative functions and performances.

"Smart Micro Grid Controller <Smart-uGC>" project is funded through "SME’s Growth Romania" program, focus area "Green Industry Innovation, Blue Growth and ICT" under contract no. 2020/505837, concluded with Innovation Norway as operator of the program.

The total eligible expenses of the project are 263225 euros, of which the Romania Innovation EEA grants is 115000 Euros and the value of the co-financing is 148225 euro.

Supported by a grant from Norway through the Norwegian Financial Mechanism 2014-2021, in the frame of the Green Industry Innovation, Blue Growth and ICT Programme Romania. Project ID: 2020/505837

The R& D team of SIS SA starts as coordinator the project “Smart Microgrid Development Technology based on Digital Twin” (SMARTech). Together with the Norwegian partner NORCE (Norwegian Research Centre), it aims to meet the requirements of the energy transition to the Smart Grid, starting from existing infrastructures, followed by the implementation of renewable energy generation equipment, storage solutions, smart consumption strategies, monitoring, remote control and energy efficiency.

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