

## Press release

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### Smart Grid Gotland project and Gotland Energy (GEAB) installs photovoltaic plant on the island of Gotland

On the 11th of October the Smart Grid Gotland photovoltaic installation will undergo the final inspection. The complex consists of three one phase installations and one three phase installation and will be used to investigate the power quality in the grid and how the system interacts with the smart meters.

Just east of Visby a 1000 m<sup>2</sup> large ground-based photovoltaic plant is now spreading out. The complex consists of three one phase installations, each of 3.2 kW and one three phase installation of 2 \* 22.5 kW. The one phase installations will symbolize a house top installation while the three phase installation will symbolize the roof of a barn.

The plant is connected to GEAB's electricity grid and the purpose of the installation is to investigate and verify how the system affects the power quality in the rural grid but also how the plant affects the smart meters methods to identify different states in the grid. In addition to this the smart meters possibilities to identify power quality problems caused by the solar plant will be investigated. The installation is temporary and will be used for research purposes. At the end of the project, the installation will be dismantled.

"The installation will give us new opportunities to find solutions to detect and resolve anticipated power quality issues related to micro production" explains Håkan Gustavsson, project manager for the Smart Grid Gotland project. For GEAB's part, the PV installation will provide them with valuable information regarding how micro production can be handled in best possible way. "We want to use the increasing amount of micro production in a more efficient way," says Jenny Larsson, CEO of GEAB. "The results of the installation will give us important input into how we can use micro production to reinforce the grid and thereby increase the power quality here on Gotland."

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Smart Grid Gotland is a development project that will show how it is possible to modernize an existing network to connect more renewable energy while maintaining or improving power quality. The project is a joint venture between Vattenfall, ABB, Gotland Energy AB, the Swedish Grid, Schneider Electric and KTH and is partly financed by the Swedish Energy Agency.

Learn more about the Smart Grid Gotland project on [www.smartgridgotland.se](http://www.smartgridgotland.se)

Contact: Håkan Gustavsson ([hakan.gustavsson@vattenfall.com](mailto:hakan.gustavsson@vattenfall.com)) project manager, Mattias Wedberg ([mattias.wedberg@ventyx.abb.com](mailto:mattias.wedberg@ventyx.abb.com)) project manager, Maria Andersson ([maria.andersson@poyry.com](mailto:maria.andersson@poyry.com)) communication.