

E.ON and Lumenaza build the local energy system of the future

Berlin, 7-Feb-18. E.ON together with Lumenaza have created a local energy system in Simris, a small village located in southern Sweden, fully based on renewable energy. The energy for the approximately 140 households mainly comes from a wind turbine and photovoltaic panels, supported by a battery system. Residents of the village are not only consumers of energy, but they also produce their own energy through a combination of photovoltaic and battery systems. Furthermore, heat pumps and other steerable load assets are integrated into the village's energy system.

Residents of Simris can now in real-time check their individual as well as the accumulated energy consumption and compare it to the local energy generation. Moreover, they can participate in the demand response program and receive an immediate visual feedback on how much energy was contributed and their individual financial compensation for the offered flexibility. To realize the visualization of the energy flows for the residents, Lumenaza's utility-in-a-box solution for distributed energy resources is used.

"We are in the middle of tremendous changes in the energy sector. In the future, the generation of energy and its consumption will be renewable, decentral and local. Simris is a perfect example of how to realize the energy transition on the local level and how to reach a high-degree of self-sufficiency. We are happy to help with our software to drive this change," comments Christian Chudoba, founder and CEO of Lumenaza.

Lumenaza started in 2013 to connect and control producers and consumers of renewable energy intelligently. The software platform works nowadays as a utility-in-a-box, enabling every energy market participant to become an innovative and digital utility. The ability to handle and process large amounts of data makes Lumenaza the partner of choice for E.ON. It is the first project outside Germany for the Berlin-based software company.

"Simris is an exciting project for us. We are able to demonstrate a local and sustainable energy transition in Sweden with innovative equipment and intelligent software. The data visualization is a key issue for us as it provides our customers with an unprecedented transparency in their individual energy production and consumption and an opportunity to become more engaged" says Peder Kjellén, project manager for E.ON.