Siemens and Enel collaborate for stable and flexible storage of renewable power

Challenge

• Improve storage capability for renewable energy
• Provide constant voltage within specific limits
• Lack of available suitable storage system on the market at the beginning of the project

Solution

• 1 MVA /500 kWh SIESTORAGE system
• Storage of electricity in a smart grid environment
• Network stabilization with infeed of power generated from decentralized, renewable sources
• Testing of black start suitability for smaller grid sections
• Container solution for decentralized setup for renewable energy producers or in neural network nodes

Results & Benefits

• Solutions from a single source
• Highly reliable system and flexible power storage unit for smart grids
• Equalization of fluctuations in renewable generation
• Suitable for decentralized setup in the event of an outage
• Savings up to 30%
• Ensured high degree of safety for personnel & system operation

"We need better ways to store energy for our pilot projects, and because Siemens was strongly committed to investing its expertise and efforts into the new energy storage system, we chose Siemens from among seven bidders."

Paola Petroni, Head of Network Technologies, Enel