Energy storage for backup power rwanda

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June 14, 2016 – The German commercial storage system manufacturer Tesvolt has been awarded the contract to supply the world’s largest decentralized off-grid storage system, which acts as a mini-grid during power cuts. The company is set to deliver a lithium storage system with a total capacity of 2.68 megawatt-hours (MWh) which will provide water pumps in an agricultural project in Rwanda’s Eastern Province with emergency power. The 3.3 MW solar power plant and the storage system are being engineered and constructed by the international system integrator IdeemaSun energy.

134 lithium storage systems for water pumpsrnTesvolt is set to supply a total of 134 fully assembled lithium storage systems for the 44 water pumps. The storage system will supply the irrigation project with clean and safe emergency power, also boosting yields in local agriculture. This should improve the living conditions of around 2,000 farmers, who currently live in extreme poverty. In total, 402 Sunny Island charge controllers from SMA are to be deployed for the project. In the event of power cuts, the storage system will act as a mini-grid, enabling the PV power plant to continue running.

Every cell in the storage system is monitoredrnThe Tesvolt battery management system monitors each individual cell when the system is in operation so that any damaged cells are identified before they completely fail. If a cell is defective, the installer only needs to exchange that single cell, unlike in conventional storage systems where the entire battery block has to be replaced.

Tesvolt will be introducing its storage systems atIntersolarEurope in Munich from June 22–24, 2016.

Intersolar exhibition booth:Booth 550 in hall B1

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The installation, in the Eastern Province of the landlocked African country, is being engineered and built by another German company, system integrator Ideema Solar, including a 3.3MW solar plant. It will power 44 water pumps at an agricultural project through 134 separate lithium-ion battery-based storage systems.

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