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New trends are emerging both in energy supply economics and power management technologies. The most popular theme is the Smart Grid. The vision is comprised of three key elements namely, consumer empowerment, grid integrated distributed renewable resources and intelligent network logistics.

This study assesses the technical and economic feasibility of the smart grid as a solution to Uganda's power system's challenges. Under the technical feasibility, the study identifies SG features needed to solve the challenges and further maps available renewable energy resources in Uganda for distributed generation.

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The 2018 edition of the Grid Development Plan provides a 23 year outlook of the Uganda transmission system. The GDevP presents the latest demand forecast, generation expansion plan, Demand - Supply Balance for the current and subsequent years, power system analysis result, the Grid Investment Requirements and Implementation Schedule.

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Smart grid power distribution system Uganda

power generation and distribution from renewable energy resources (RERs) for universal modern energy access. Thus, this study aimed to demonstrate the inclusion of a smart connective concept (smart grid) in power generation and distribution from solar and small hydropower resources in Kanungu district, Uganda.

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