Energy storage for microgrids palestine

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The increased demand for power worldwide with high quality and sustainability, and the need for clean energy using renewable resources, had put a lot of challenges in modern power systems. Microgrid has the ability to overcome all these challenges with elimination of load shedding. This paper studies a PV station with a local load using real data collected using different monitoring system, and offer a modified design to convert this part of power system into microgrid, the suggested microgrid is tested and operated using MATLAB simulation tool, assuring power sustainability and acceptable THD, electrical and financial results are reported supporting this design.

micrigrid,, load shedding, THD, Power quality

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