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(54) Title of the invention : SAC- SMART GRID: RENEWABLE ENERGY SOURCES AUTOMATIC CONNECTED TO SMART GRID.

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(57) Abstract :

ABSTRACT Our Invention RSAC- Smart Grid is a portable clean power generation and aggregation system and the system comprises a plurality of power generation units operable to generate DC electrical power, a power storage device, an inverter unit, and a main controller. The RSAC- Smart Grid is a plurality of power generation units may include a solar power generation unit, a wind power generation unit, a hydro power generation unit, and a fuel-based power generation unit and the main controller is electrically coupled to the plurality of power generation units, the inverter controller, and the power storage device, and monitors DC electrical power generation by the plurality of power generation units, monitors DC electrical power received by the inverter, measures charge of the power storage device, and directs DC electrical power from the power storage device to the inverter. The RSAC- Smart Grid is a nature of the system and its applications allows the effective use of wireless communications systems and the like where they would otherwise not be possible and the power generation units and the power storage device and wherein the inverter converts DC electrical power into AC electrical power; and a main controller. The RSAC- Smart Grid and also controller is electrically coupled to the plurality of power generation units, the inverter controller, and the power storage device, whereby the main controller can monitor DC electrical power generation by the power generation units, can monitor DC electrical power received by the inverter, can measure charge of the power storage device and direct DC electrical power from the power storage device to the inverter, and can send electronic signals to selectively activate one or more of the power generation units.

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