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(57) Abstract :

SMART ENERGY MANAGEMENT SYSTEM FOR HOUSEHOLDS AND COMMERCIAL BUILDINGS Accordingly, embodiments herein disclose smart energy management system for optimizing energy usage and reducing carbon footprint in households and commercial buildings. The proposed system comprises a gateway apparatus including: a powerline module configured to transmit information at a plurality of first frequencies; a control module configured to transmit information at a plurality of second frequencies; a wireless module configured to transmit information at a plurality of third frequencies; and a circuit sensor device including a plurality of input sites. Further, the proposed system may include an appliance module coupled to the gateway apparatus. The appliance module is configured to turn-on or turn-off appliances where the appliance module is coupled to the control module using the wireless module and the control module.

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