We Claim:

1. A system (100) for estimating energy consumption and managing load schedule in a building, the system comprising:

a central server (102) configured to monitor energy consumption in the building, wherein the central server is communicably coupled to:

a plurality of sensors (104) coupled each electrical equipment of the building, wherein the plurality of sensors collect energy consumption from each of the electrical equipment, on real time basis; ~~and~~

a graphical user interface (106) configured with virtual/augmented visualisation modules to generate a real time virtual scenario of the building depicting the energy consumption of the building;

a control unit to regulate the energy consumption and managing load schedule;

at least one central controller in communication with at least one facility installed in the building and for centrally controlling the operation of the facility, wherein the central controller collectively considers device data, travel data, ambient environmental data, and user data of the facility to determine an optimum point to optimize a reduction rate of energy consumption, increase rate of efficient driving of the facility, and automatically control the facility to meet the optimum point;

the central controller comprises:

a saving mode setting module for setting a minimum saving criterion of energy consumption for the facility according to a user input or preset criteria; and

an optimum point calculating module calculates an expected point of the energy consumption and an estimated increase rate of efficient driving based on the data and calculating an optimum point thereof;

the central server (102) is interlocked with the central controller and stores device data of the facility, operation data, environmental condition data, and user data, and logic for controlling a control pattern for the facility.

2. The system (100) as claimed in claim 1, wherein the plurality of sensors (104) includes power sensors.
3. The system (100) as claimed in claim 1, wherein the plurality of sensors (104) includes temperature sensors.
4. The system (100) as claimed in claim 1, wherein the plurality of sensors (104) includes pressure sensors.
5. The system (100) as claimed in claim 1, wherein the plurality of sensors (104) includes humidity sensors.
6. The system (100) as claimed in claim 1, wherein the plurality of sensors (104) includes moisture sensors.
7. ~~The system (100) as claimed in claim 1, further comprising a control unit to regulate the energy consumption and managing load schedule.~~

~~8.~~7. A method (200) for estimating energy consumption and managing load schedule in a building, the system comprising:

collecting an energy consumption data from the plurality of sensors coupled each electrical equipment of the building;

analysing requirement of each of electrical equipment, on real time basis;

correlating the requirement of each of the electrical equipment with an optimum energy consumption data;

regulating the load schedule of each of the electrical equipment based on the optimum energy consumption data; and

evaluating the regulated load schedule and balanced energy consumption scenario.

~~9.~~8. The method (200) as claimed in claim 8, further comprising assigning the plurality of sensors to each of the electrical equipment of the building.

~~10.~~9. The method (200) as claimed in claim 8, wherein collecting the energy consumption data includes identifying the nature of equipment and a highest load consumption scenario thereof.

~~11.~~10. The method (200) as claimed in claim 8, further comprising determining temperature of one or more sections of the building.

~~12.~~11. The method (200) as claimed in claim 8, further comprising determining pressure of one or more sections of the building.