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electrical energy triggering one of the values of the threshold at the respective moment in time; and wherein the adjusting comprises adjusting for a random length of time.

**80.** An electrical power distribution control method comprising:

providing electrical energy using a grid of an electrical power distribution system;

applying the electrical energy to a plurality of loads coupled with the electrical power distribution system;

providing a power management system comprising a plurality of power management devices coupled with respective ones of the loads;

controlling an electrical characteristic of the electrical energy on the grid of the electrical power distribution system using the power management system;

wherein the power management devices of the power management system exhibit emergent behavior during the controlling;

wherein the power management devices are configured to control the applying according to a plurality of respective rules, and wherein the rules are configured to provide the emergent behavior; and

wherein the rules configure the power management devices to adjust an amount of the electrical energy applied to the respective loads responsive to the electrical characteristic triggering respective threshold values of the power management devices.

**81.** The method of claim **80** further comprising assigning the threshold values to respective ones of the power management devices according to a statistical distribution.

**82.** An electrical power distribution control method comprising:

providing electrical energy using a grid of an electrical power distribution system;

applying the electrical energy to a plurality of loads coupled with the electrical power distribution system;

providing a power management system comprising a plurality of power management devices coupled with respective ones of the loads;

controlling an electrical characteristic of the electrical energy on the grid of the electrical power distribution system using the power management system;

wherein the power management devices of the power management system exhibit emergent behavior during the controlling;

wherein the power management devices are configured to control the applying according to a plurality of respective rules, and wherein the rules are configured to provide the emergent behavior; and

wherein the rules configure the power management devices to adjust an amount of the electrical energy applied to the respective loads responsive to the electrical characteristic comprising frequency triggering respective threshold values of the power management devices.

**83.** A power management device comprising:

an interface configured to receive electrical energy from an electrical power distribution system;

control circuitry configured to control an amount of the electrical energy provided to a load coupled with the power management device, to access a plurality of different values for a threshold at a plurality of moments in time and corresponding to an electrical characteristic of the electrical energy, to monitor the electrical characteristic of the electrical energy with respect to the threshold, and to adjust the amount of the

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electrical energy provided to the load responsive to the electrical characteristic of the electrical energy triggering a respective one of the values of the threshold; and wherein the control circuitry is configured to access the different values comprising randomly generated values.

**84.** A power management device comprising:

an interface configured to receive electrical energy from an electrical power distribution system;

control circuitry configured to control an amount of the electrical energy provided to a load coupled with the power management device, to access a plurality of different values for a threshold at a plurality of moments in time and corresponding to an electrical characteristic of the electrical energy, to monitor the electrical characteristic of the electrical energy with respect to the threshold, and to adjust the amount of the electrical energy provided to the load responsive to the electrical characteristic of the electrical energy triggering a respective one of the values of the threshold; and wherein the control circuitry is configured to adjust the amount of the electrical energy for a random length of time.

**85.** An electrical power distribution control method comprising:

providing electrical energy from an electrical power distribution system;

applying the electrical energy to a plurality of loads coupled with the electrical power distribution system;

providing a power management system comprising a plurality of power management devices coupled with respective ones of the loads;

controlling an electrical characteristic of the electrical energy of the electrical power distribution system using the power management system;

wherein the power management devices of the power management system exhibit emergent behavior during the controlling;

wherein the power management devices are configured to control the applying according to a plurality of respective rules, and wherein the rules are configured to provide the emergent behavior; and

wherein the rules configure the power management devices to adjust an amount of the electrical energy applied to the respective loads responsive to the electrical characteristic comprising frequency triggering respective threshold values of the power management devices.

**86.** An electrical energy demand monitoring method comprising:

providing electrical energy from an electrical power distribution system;

applying the electrical energy to a plurality of loads coupled with the electrical power distribution system;

monitoring an electrical characteristic of the electrical energy;

adjusting an amount of the electrical energy applied to at least one of the loads responsive to the monitoring;

calculating a deficit of the electrical energy of the electrical power distribution system responsive to the monitoring; and

wherein the monitoring comprises monitoring frequency of the electrical energy.

**87.** An electrical energy demand monitoring method comprising:

providing electrical energy from an electrical power distribution system;