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35. The method of claim 34 wherein the deficit is indicative of a relationship of generation and consumption of the electrical energy on the grid of the electrical power distribution system.

36. The method of claim 33 wherein the calculating comprises calculating the deficit of the electrical energy on the grid of the electrical power distribution system.

37. The method of claim 25 wherein the applying comprises applying the electrical energy received from a transmission network of a grid of the electrical power distribution system.

38. The method of claim 37 wherein the monitoring comprises monitoring the electrical characteristic of the electrical energy of the transmission network.

39. The method of claim 38 wherein the deficit is indicative of a relationship of generation and consumption of the electrical energy on the transmission network of the electrical power distribution system.

40. The method of claim 37 wherein the calculating comprises calculating the deficit of the electrical energy on the transmission network of the electrical power distribution system.

41. An electrical energy demand monitoring method comprising:

applying electrical energy from an electrical power distribution system 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 as a result of the monitoring;

calculating a deficit of the electrical energy of the electrical power distribution system using the monitoring;

wherein the calculating comprises:

determining a number of the loads having the application of electrical energy adjusted using the monitoring; and

quantifying an amount of electrical energy consumed by the number of the loads;

associating a plurality of threshold values with respective ones of the loads;

wherein the adjusting comprises adjusting as a result of the electrical characteristic triggering respective ones of the threshold values; and

wherein the determining comprises determining using the threshold values.

42. An electrical power distribution control method comprising:

applying electrical energy from an electrical power distribution system to a load using a power management device;

detecting a power oscillation within the electrical power distribution system; and

adjusting an amount of electrical energy applied to the load using the power management device as a result of the detecting; and

wherein the detecting comprises monitoring system frequency of the electrical energy and the monitoring comprises:

decimating data of the system frequency of the electrical energy;

low pass filtering the data;

Fourier processing the data; and

comparing the processed data to an oscillation threshold.

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43. The method of claim 42 wherein the adjusting comprises reducing the amount of the electrical energy applied to the load.

44. The method of claim 42 wherein the adjusting comprises ceasing the application of the electrical energy.

45. The method of claim 42 wherein the adjusting comprises:

modulating the amount of electrical energy applied to the load using the power management device; and

synchronizing the modulation with the power oscillation.

46. The method of claim 42 wherein the detecting comprises detecting an amplitude of the power oscillation reaching an oscillation threshold, and the adjusting comprises adjusting to reduce the amplitude of the power oscillation.

47. The method of claim 42 further comprising:

further detecting an electrical characteristic of the electrical energy triggering a shed threshold; and

adjusting an amount of electrical energy applied to the load as a result of the further detecting.

48. The method of claim 42 wherein the detecting comprises detecting the power oscillation on a grid of the electrical power distribution system.

49. The method of claim 42 wherein the detecting comprises detecting the power oscillation on a transmission network of a grid of the electrical power distribution system.

50. The method of claim 49 wherein the adjusting comprises adjusting to reduce an amplitude of the power oscillation.

51. The method of claim 42 wherein the detecting comprises detecting using the power management device.

52. The method of claim 42 wherein the detecting comprises detecting using the power management device and only using the electrical energy received by the power management device.

53. The method of claim 42 wherein the adjusting comprises adjusting to provide a reduced non-zero amount of electrical energy to the load compared with the amount of electrical energy applied to the load before the detecting.

54. A power management device comprising:

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

control circuitry configured to control an amount of the electrical energy provided to a load coupled with the power management device, to vary a single threshold to comprise a plurality of different values 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 as a result of the electrical characteristic of the electrical energy triggering one of the values of the single threshold at one of the moments in time when the single threshold comprises the one of the values.

55. The device of claim 54 wherein the control circuitry is configured to access the different values comprising values generated in accordance with a statistical distribution.

56. The device of claim 54 wherein the control circuitry is configured to adjust the amount of the electrical energy for a variable length of time.

57. The device of claim 54 wherein the control circuitry of the power management device is proximately located with respect to the load.

58. The device of claim 54 wherein the control circuitry of the power management device is located within the load.