What is claimed is:

1. A DC home power consumption system, characterized by, comprising:

a home power supply (102), configured to supply power for the home power consumption system;

a high-voltage DC bus (104), connected to the home power supply (102) and configured to supply power for a high-power appliance; and

a low-voltage DC bus (106), connected to the home power supply (102) or the high-voltage DC bus (104) and configured to supply power for a low-power appliance;

wherein the home power supply (102) is a DC grid or a non-DC grid; the Non-DC grid comprises at least one of the following: an AC power grid, a new energy resource and an energy storage device;

wherein when the home power supply (102) is the DC grid, the high-voltage DC bus (104) is directly connected to the DC grid, and the low-voltage DC bus (104) is connected to the high-voltage DC bus (104); when the home power supply (102) is the non-DC grid, the high-voltage DC bus (104) is connected to the non-DC grid through an energy router, and the low-voltage DC bus (106) is connected to the energy router or the high-voltage DC bus (104);

wherein the low-voltage DC bus (106) is connected to the energy router or the high-voltage DC bus (104), comprises: it is determined that the low-voltage DC bus (106) is connected to the energy router or the high-voltage DC bus (104) according to an output capability of the low-voltage DC bus (106) and/or an output line of the energy router;

wherein the output capability of the low-voltage DC bus (106) is a transmission capability of the low-voltage DC bus (106) or a transmission distance of the low-voltage DC bus (106); the output line of the energy router comprises a high-voltage DC line or a high-voltage DC line and a low-voltage DC line;

wherein when the output capability of the low-voltage DC bus (106) meets the low-voltage home requirement, and the output line of the energy router comprises the high-voltage DC line and the low-voltage DC line, the low-voltage DC bus (106) is connected to the energy router through the low-voltage DC line; when the output capability of the low-voltage DC bus (106) does not meet the low-voltage home requirement, or the output line of the energy router is the high-voltage DC line, the low-voltage DC bus (106) is connected to the high-voltage DC bus; and the high-voltage DC bus (104) is connected to the high-voltage DC line;

wherein the low-voltage DC bus (106) is divided into different low-voltage bus areas according to a use area, and when the low-voltage DC bus (106) is connected to the high-voltage DC bus (104), each of the low-voltage bus areas is connected to the high-voltage DC bus (104)

through a DC converter.

2. The DC home power consumption system of any one of claims 1, wherein the high-voltage DC bus (104) is located in an upper part of the home space, and the low-voltage DC bus (106) is located in a lower part of the home space.

3. The DC home power consumption system of any one of claims 1, wherein the voltages of the high-voltage DC bus (104) and the low-voltage DC bus (106) are determined according to an area where the home power consumption system is located.

4. A wiring method for home appliances, characterized by, based on the DC home power consumption system according to any one of claims 1 to 3, comprising:

obtaining (502) electricity parameters of each of the home appliances;

connecting (504) the home appliance to a high-voltage DC bus or a low-voltage DC bus according to the electricity parameters of the home appliance.

5. The wiring method of claim 4, wherein the electricity parameters at least comprise: power, a usage frequency and a user requirement.

6. The wiring method of claim 5, wherein a priority of the electricity parameters is: the priority of the power > the priority of the usage frequency > the priority of the user requirement; and

the connecting the home appliance to a high-voltage DC bus or a low-voltage DC bus according to the electricity parameters of the home appliance, comprises:

connecting the home appliance to the high-voltage DC bus or the low-voltage DC bus according to the priority of the electricity parameters of the home appliance.

7. The wiring method of claim 6, wherein the connecting the home appliance to the high-voltage DC bus or the low-voltage DC bus according to the priority of the electricity parameters of the home appliance, comprises:

connecting the home appliance to the high-voltage DC bus or the low-voltage DC bus according to the power of the home appliance, comprising: connecting the home appliance to the high-voltage DC bus when the power of the home appliance is greater than a first preset power; connecting the home appliance to the low-voltage DC bus when the power of the home appliance is less than a second preset power; and connecting the home appliance to the high-voltage DC bus or the low-voltage DC bus according to the usage frequency of the home appliance, when the power of the home appliance is less than or equal to the first preset power and greater than or equal to the second preset power.

8. The wiring method of claim 7, wherein the home appliance is divided into different using areas according to the usage frequency of the home appliance, and the using areas comprise at least one of the following: a bedroom area, a living room area, a study area, a dining area, a

bathroom area, and a kitchen area; wherein the bedroom area, the living room area, the study area, and the dining area are frequent activity areas; the bathroom area and the kitchen area are living functional areas.

9. The wiring method of claim 8, wherein the connecting the home appliance to the high-voltage DC bus or the low-voltage DC bus according to the usage frequency of the home appliance, comprises:

connecting the home appliance to the low-voltage DC bus when the home appliance is in a frequent activity area; and

connecting the home appliance to the high-voltage DC bus or the low-voltage DC bus according to the use requirement of the home appliance, when the home appliance is in a living function area.

10. The wiring method of claim 9, wherein the connecting the home appliance to the high-voltage DC bus or the low-voltage DC bus according to the use requirement of the home appliance, comprises:

connecting the home appliance to the high-voltage DC bus when the use requirement is to be located in an upper part of a home environment; and

connecting the home appliance to the low-voltage DC bus when the use requirement is to be located in a lower part of the home environment.