CLAIMS

1. A method for indicating a transmit power, performed by a terminal, comprising:

determining a maximum permissible transmit power of at least one uplink beam of the terminal, wherein the maximum permissible transmit power is a maximum transmit power subject to satisfying a maximum permissible exposure (MPE) limit of the terminal; and

transmitting first indication information for indicating the maximum permissible transmit power of the at least one uplink beam;

wherein transmitting the first indication information for indicating the maximum permissible transmit power of the at least one uplink beam comprises:

transmitting the first indication information for indicating a maximum permissible transmit power of a first uplink beam, wherein the first uplink beam is one of:

an uplink beam with the maximum permissible transmit power less than a maximum transmit power of the terminal, or

an uplink beam with the maximum permissible transmit power not greater than the maximum transmit power of the terminal;

wherein the maximum transmit power of the terminal is one of: a maximum transmit power corresponding to the first uplink beam and configured by a network device, or the maximum transmit power corresponding to the first uplink beam and supported by a capability of the terminal.

2. The method as claimed in claim 1, wherein transmitting the first indication information for indicating the maximum permissible transmit power of the at least one uplink beam comprises at least one of:

transmitting the first indication information through an uplink power headroom report (PHR); or

transmitting the first indication information through an uplink power limit report, wherein the uplink power limit report is configured to indicate a power limit due to the MPE limit.

3. The method as claimed in any one of claims 1 to 2, wherein transmitting the first indication information for indicating the maximum permissible transmit power of the at least one uplink beam comprises:

transmitting the first indication information through a physical uplink shared channel (PUSCH).

4. The method as claimed in any one of claims 1 to 3, wherein the first indication information comprises an identifier of the uplink beam and power-related information of the uplink beam, and the power-related information comprises one or more of: the maximum permissible transmit power, a power interval to which the maximum permissible transmit power belongs, a level corresponding to the maximum permissible transmit power, or a difference between the maximum permissible transmit power and a maximum transmit power of the terminal,

wherein the maximum transmit power of the terminal is one of: a maximum transmit power corresponding to the uplink beam and configured by a network device, the maximum transmit power corresponding to the uplink beam and supported by a capability of the terminal.

5. The method as claimed in claim 4, wherein the identifier of the uplink beam comprises a reference signal identifier, and the reference signal identifier comprises at least one of: a synchronization signal block (SSB) ID, or a channel state information reference signal (CSI-RS) ID.

6. The method as claimed in any one of claims 1 to 5, wherein determining the maximum permissible transmit power of the at least one uplink beam of the terminal comprises:

obtaining second indication information for indicating a maximum MPE value of the terminal; and

determining the maximum permissible transmit power of the at least one uplink beam of the terminal based on the MPE value.

7. The method as claimed in claim 6, wherein obtaining the second indication information for indicating the maximum MPE value of the terminal comprises:

receiving the second indication information transmitted by a network device.

8. A method for determining a transmit power, performed by a network device, comprising:

receiving first indication information for indicating a maximum permissible transmit power of at least one uplink beam of a terminal, wherein the maximum permissible transmit power is a maximum transmit power subject to satisfying a maximum permissible exposure (MPE) limit of the terminal; and

determining the maximum permissible transmit power of the uplink beam based on the first indication information;

wherein receiving the first indication information for indicating the maximum permissible transmit power of the at least one uplink beam of the terminal comprises:

receiving the first indication information for indicating a maximum permissible transmit power of a first uplink beam, wherein the first uplink beam is one of:

an uplink beam with the maximum permissible transmit power less than a maximum transmit power of the terminal, or

an uplink beam with the maximum permissible transmit power not greater than the maximum transmit power of the terminal;

wherein the maximum transmit power of the terminal is one of: a maximum transmit power corresponding to the first uplink beam and configured by a network device, or the maximum transmit power corresponding to the first uplink beam and supported by a capability of the terminal.

9. The method as claimed in claim 8, wherein receiving the first indication information for indicating the maximum permissible transmit power of the at least one uplink beam of the terminal comprises at least one of:

receiving the first indication information transmitted through an uplink power headroom report (PHR); or,

receiving the first indication information transmitted through an uplink power limit report, wherein the uplink power limit report is configured to indicate a power limit due to the MPE limit.

10. The method as claimed in any one of claims 8 to 9, wherein the first indication information is received through a physical uplink shared channel (PUSCH).

11. The method as claimed in any one of claims 8 to 10, wherein the first indication information comprises an identifier of the uplink beam and power-related information of the uplink beam, and the power-related information comprises one or more of: the maximum permissible transmit power, a power interval to which the maximum permissible transmit power belongs, a level corresponding to the maximum permissible transmit power, or a difference between the maximum permissible transmit power and a maximum transmit power of the terminal,

wherein the maximum transmit power of the terminal is one of: a maximum transmit power corresponding to the uplink beam and configured by a network device, or the maximum transmit power corresponding to the uplink beam and supported by a capability of the terminal.

12. The method as claimed in claim 11, wherein the identifier of the uplink beam comprises a reference signal identifier, and the reference signal identifier comprises at least one of: a synchronization signal block (SSB) ID, or a channel state information reference signal (CSI-RS) ID.

13. An apparatus for indicating a transmit power, comprising:

a determining module, configured to determine a maximum permissible transmit power of at least one uplink beam of a terminal, wherein the maximum permissible transmit power is a maximum transmit power subject to satisfying a maximum permissible exposure (MPE) limit of a terminal; and

a transmitting module, configured to transmit first indication information for indicating

the maximum permissible transmit power of the at least one uplink beam;

wherein the transmitting module is further configured to:

transmit the first indication information for indicating a maximum permissible transmit power of a first uplink beam, wherein the first uplink beam is one of:

an uplink beam with the maximum permissible transmit power less than a maximum transmit power of the terminal, or

an uplink beam with the maximum permissible transmit power not greater than the maximum transmit power of the terminal;

wherein the maximum transmit power of the terminal is one of: a maximum transmit power corresponding to the first uplink beam and configured by a network device, or the maximum transmit power corresponding to the first uplink beam and supported by a capability of the terminal.

14. An apparatus for determining a transmit power, comprising:

a receiving module, configured to receive first indication information for indicating a maximum permissible transmit power of at least one uplink beam of a terminal, wherein the maximum permissible transmit power is a maximum transmit power subject to satisfying a maximum permissible exposure (MPE) limit of the terminal; and

a determining module, configured to determine the maximum permissible transmit power of the uplink beam based on the first indication information;

wherein the receiving module is further configured to:

receive the first indication information for indicating a maximum permissible transmit power of a first uplink beam, wherein the first uplink beam is one of:

an uplink beam with the maximum permissible transmit power less than a maximum transmit power of the terminal, or

an uplink beam with the maximum permissible transmit power not greater than the maximum transmit power of the terminal;

wherein the maximum transmit power of the terminal is one of: a maximum transmit power corresponding to the first uplink beam and configured by a network device, or the

maximum transmit power corresponding to the first uplink beam and supported by a capability of the terminal.

15. A terminal, comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein, the processor is configured to load and execute the executable instructions to perform the method for indicating a transmit power as claimed in any one of claims 1 to 7.

16. A network device, comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein, the processor is configured to load and execute the executable instructions to perform the method for determining a transmit power as claimed in any one of claims 8 to 12.

17. A computer-readable storage medium having stored therein instructions that, when executed by a processor, the method for indicating a transmit power as claimed in any one of claims 1 to 7 or the method for determining a transmit power as claimed in any one of claims 8 to 12 is performed.