CLAIMS

What is claimed is:

1. A signal transmission method (100), comprising:

determining (110), by a terminal device, information indicating a channel state information-reference signal, CSI-RS, resource, wherein the information corresponds to a target uplink signal and the CSI-RS resource indicated by the information is configured for the terminal device to obtain a transmitting beam of the target uplink signal;

determining (120), by the terminal device, a power control parameter of the target uplink signal according to the information indicating the CSI-RS resource; wherein the power control parameter comprises information about a downlink signal used to measure a path loss value used to calculate the transmit power;

determining (130), by the terminal device, a transmit power of the target uplink signal according to the power control parameter; and

sending (140), by the terminal device, the target uplink signal to a network device according to the transmit power.

2. The method according to claim 1, wherein the target uplink signal is a physical uplink shared channel, PUSCH, a physical uplink control channel, PUCCH, or a sounding reference signal, SRS.

3. The method according to claim 1 or 2, wherein the CSI-RS resource indicated by the information indicating the CSI-RS resource is used to obtain a precoding matrix or the transmitting beam of the target uplink signal or is used to obtain a precoding matrix or a transmitting beam of a first SRS corresponding to the target uplink signal.

4. The method according to any one of claims 1 to 3, further comprising:

receiving, by the terminal device, first information sent by the network device, wherein the first information carries the information indicating the CSI-RS resource; and

the determining, by a terminal device, information indicating the CSI-RS resource

corresponding to a target uplink signal comprises:

determining, by the terminal device, the information indicating the CSI-RS resource in the first information.

5. The method according to claim 4, wherein if the target uplink signal is a PUSCH, the first information is downlink control information, DCI, used to schedule the PUSCH or downlink signaling information used to configure, trigger or activate a second SRS corresponding to the PUSCH.

6. The method according to claim 4, wherein if the target uplink signal is an SRS, the first information is downlink signaling information used to configure, trigger or activate the SRS.

7. The method according to any one of claims 1 to 6, further comprising:

receiving, by the terminal device, configuration information sent by the network device, wherein the configuration information is used to indicate a correspondence between at least one piece of information indicating the CSI-RS resource and at least one group of power control parameters, the at least one piece of information indicating the CSI-RS resource comprises the CSI-RS resource indication information, and each group of power control parameters of the at least one group of power control parameters comprises a value of at least one power control parameter; and

the determining, by the terminal device, a power control parameter of the target uplink signal according to the information indicating the CSI-RS resource comprises:

determining, by the terminal device, the power control parameter according to the information indicating the CSI-RS resource and the configuration information.

8. The method according to any one of claims 1 to 7, wherein the power control parameter further comprises at least one piece of information of the following information: a path loss value used to calculate the transmit power, an open-loop power control parameter, and a closed-loop power control parameter.

9. The method according to claim 8, wherein the open-loop power control parameter

comprises one of the following parameters including a target power Po, a value of a path loss weighting factor a, an index of a target power Po and an index of a path loss weighting factor a.

10. The method according to claim 8, wherein the closed-loop power control parameter comprises an index of a closed-loop power control process.

11. The method according to any one of claims 1 to 10, wherein before the determining, by a terminal device, information indicating the CSI-RS resource, the method further comprises:

determining, by the terminal device, the transmit power of the target uplink signal by using a power control parameter preconfigured by the network device.

12. A terminal device (300) comprising:

a first determining unit (310) configured to determine information indicating a channel state information-reference signal, CSI-RS, resource, wherein the information corresponds to a target uplink signal and the CSI-RS resource indicated by the information is configured for the terminal device to obtain a transmitting beam of the target uplink signal;

a second determining unit (320) configured to determine a power control parameter of the target uplink signal according to the information indicating the CSI-RS resource; wherein the power control parameter comprises information about a downlink signal used to measure a path loss value used to calculate the transmit power;

a third determining unit (330) configured to determine a transmit power of the target uplink signal according to the power control parameter; and

a sending unit (340) configured to send the target uplink signal to a network device according to the transmit power.

13. The terminal device according to claim 12, wherein the target uplink signal is a physical uplink shared channel, PUSCH, a physical uplink control channel, PUCCH, or a sounding reference signal, SRS.

14. The terminal device according to claim 12 or 13, wherein the CSI-RS resource

indicated by the CSI-RS resource indication information is used to obtain a precoding matrix or a transmitting beam of the target uplink signal or is used to obtain a precoding matrix or a transmitting beam of a first SRS corresponding to the target uplink signal.

15. A computer readable medium comprising program instructions stored thereon for performing the method according to any one of claims 1 to 11.