

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YD/T 4176-2022

**Dangerous impact and protection technical requirements when
communication facilities and high-voltage power towers are
co-located**

通信设施与高压电力杆塔共址时危险影响及防护技术要求

(English Translation)

Issued on: September 30, 2022

Implemented on: January 1, 2023

Issued by: Ministry of Industry and Information Technology

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What this standard covers

This standard specifies the possible dangerous effects of power lines on communication facilities and personnel and the technical requirements for safety protection when communication facilities such as base stations are co-located with high-voltage power poles and towers. The technical requirements for safety protection proposed in this standard take comprehensive consideration of lightning protection and grounding of communication facilities. This standard is applicable to shared power towers of 110kV, 220kV, 500kV high-voltage transmission systems with direct grounding of the neutral point. 66kV, 330kV voltage level shared power towers can refer to this standard. This standard does not involve the electromagnetic interference and electromagnetic compatibility protection requirements caused by power lines to communication facilities under normal operation or fault conditions.

Document data

Estimated length of the Chinese original: 20,220 words.