

# UHV Transmission Tower Testing Site

This site is used for structural testing and validation of UHV transmission line towers. It features lattice towers of varying designs and auxiliary facilities for accurate and reliable testing under simulated conditions.



## Overview

### World-Class UHV Tower Experimental Research Base

This specialized testing facility serves as the premier site for ultra-high voltage (UHV) tower experimental research. It is designed to accommodate complex structural testing, ensuring that tower components and full-scale structures meet rigorous safety and performance standards. The facility provides critical validation services for high-capacity power transmission infrastructure projects.

## Technical Capabilities

### AC Transmission Capacity

**1000 kV**

AC Voltage Capacity

### DC Transmission Capacity

- $\pm 1000\text{kV}$  DC Single Back
- $\pm 800\text{kV}$  DC Double Circuit

## Testing Features

### Environmental Simulation Capabilities

- Wind Load Simulation
- Ice Load Simulation
- Extreme Load Testing

### Available Testing Services

Component Testing, Full-Scale Structural Testing, Environmental Load Simulation, Design Validation