

# IEEE Standard for Test Method for Energy Loss of Overhead Conductor

IEEE Power and Energy Society

Developed by the  
Transmission and Distribution Committee

IEEE Std 2772™-2021

# IEEE Standard for Test Method for Energy Loss of Overhead Conductor

Developed by the

**Transmission and Distribution Committee**  
of the  
**IEEE Power and Energy Society**

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**IEEE SA Standards Board**

**Abstract:** A test method for energy loss of overhead conductors is defined and described in this standard.

**Keywords:** energy loss, IEEE 2772™, overhead conductor, test method

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## Introduction

This introduction is not part of IEEE Std 2772™-2021, IEEE Standard for Test Method for Energy Loss of Overhead Conductors.

This standard provides a test method to verify the energy loss of conductors under single laboratory conditions.

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# IEEE Standard for Test Method for Energy Loss of Overhead Conductor

## 1. Overview

### 1.1 Scope

This standard defines and describes a test method for energy loss of overhead conductors.

### 1.2 Purpose

This standard provides a basis for measuring the energy loss of overhead conductors under simulated actual conditions in laboratory. This standard provides technical support for reducing transmission loss and promotes technical progress of production enterprises.

### 1.3 Word usage

The word *shall* indicates mandatory requirements strictly to be followed in order to conform to the standard and from which no deviation is permitted (*shall* equals *is required to*).

The word *should* indicates that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required (*should* equals *is recommended that*).<sup>1,2</sup>

The word *may* is used to indicate a course of action permissible within the limits of the standard (*may* equals *is permitted to*).<sup>2</sup>

The word *can* is used for statements of possibility and capability, whether material, physical, or causal (*can* equals *is able to*).

## 2. Normative references

The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.

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<sup>1</sup>The use of the word *must* is deprecated and cannot be used when stating mandatory requirements, *must* is used only to describe unavoidable situations.

<sup>2</sup>The use of *will* is deprecated and cannot be used when stating mandatory requirements, *will* is only used in statements of fact.