

IEEE Guide to Installation of Foundations for Transmission Line Structures

IEEE Power & Energy Society

Sponsored by the
Transmission and Distribution Committee

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Abstract: Various approaches to good construction practices that could improve the installation of transmission line structure foundations are presented. Spread foundations, drilled shaft foundations, pile foundations, and anchors are treated. This guide is intended to be used as a reference source for those involved in the ownership, design, and construction of transmission structures.

Keywords: anchor, foundation, pile, transmission line structure

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Introduction

This introduction is not part of IEEE Std 977-2010, IEEE Guide to Installation of Foundations for Transmission Line Structures.

This guide is one of several documents, covering all aspects of overhead transmission line construction, that are being prepared by the Working Group on Construction of Overhead Lines of the Towers, Poles, and Conductors Subcommittee of the Transmission and Distribution Committee of the IEEE Power & Energy Society. This guide presents, in one document, the considerations necessary for the installation of foundations for transmission line structures. This guide is intended to be used as a reference source for parties involved in the ownership, design, and construction of transmission lines.

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