



# Protection Application Standards Development Guide

## Overview

**Electrical utilities have realized the benefits of standardization and are starting to develop their entity-based application standards.**

Many utility companies are being challenged with restricted budgets and regulatory and shareholder requirements for added efficiencies and value-added operational improvements. To meet these challenges, utilities are starting to adopt the development and implementation of specific company-based standards. These standards represent a culmination of approved corporate direction, uniformity, and cost benefits, which are further discussed in this guide. This report developed principles for implementing utility-specific protection application standards and provides samples to understand this complex process further.

**Protection  
and Control  
Interest Group**

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## How to use this research

This report provides guidance and best practices to help utilities:

- Develop internal standards
- Benchmark data against best practices
- Support the corporate business processes and maximize benefits
- Provide guidance on best practices for the development of application standards
- Incorporate safety measures and reliability requirements
- Improve efficiency for asset management
- Improve the quality of work and reduce costs

## Key questions Addressed

- What are external and internal application standards?
- What information should be included in a utility-specific protection application standard?
- What are the key components required to develop the internal standards development process?
- What are the best utility practices for developing effective internal protection application standards?



**Research Summary**

The report provides a general overview of standard types and discusses the development process required to develop internal application standards effectively. In addition, it offers utility-specific planning, philosophy, and requirements and demonstrates best practices for developing protection application standards.

The findings revealed numerous benefits from implementing protection standards, such as incorporating safety measures, engineering and drafting, cost savings for supply chain functions, a business process to integrate reliability standards, and improving efficiency for management of assets, testing, training, and commissioning.

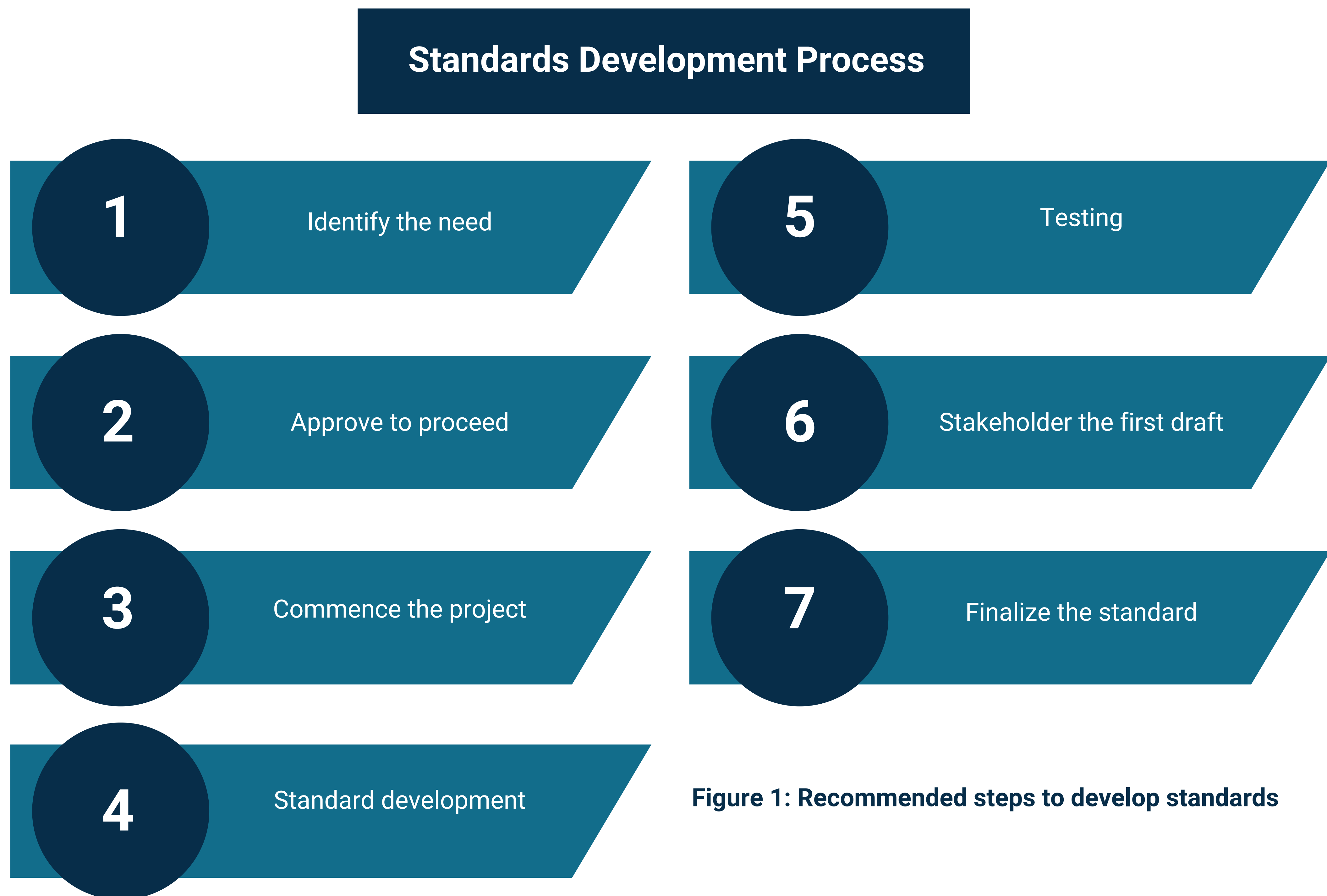


Figure 1: Recommended steps to develop standards

**About CEATI Research**

CEATI facilitates the planning and implementation of collaborative R&D projects among its electric utility members. This approach enables members to solve shared challenges and maximize their return on investment.

**Get the Full CEATI Report**

CEATI Protection and Control group members can access the report [here](#).

If you're interested in joining the Protection and Control group to access the full report as well as additional research, expert guidance, networking events, and more contact us today at <https://ceati.com/membership>