

An aerial photograph of a high-voltage power line tower situated in a lush, green mountain valley. The tower is a lattice structure, and several power lines extend from it across the valley. The surrounding landscape is covered in dense forest, and the overall scene is bathed in a cool, blue-toned light.

SUBSTATION ENGINEERING

Project Support & Documentation Management

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Substation Engineering Support

This project demonstrates my ability to support substation engineering projects by organizing technical documentation, coordinating project information, and maintaining structured engineering records.

Tools used:



Microsoft
Excel



Microsoft
Word



Engineering
Documentation



Project Objective

The goal of this project was to support engineering teams involved in substation projects by organizing project documentation and maintaining clear and structured technical information.

Key Objectives:



**Organize engineering
documentation**



**Support project
coordination**



**Maintain structured
technical records**



**Assist with
engineering project
tracking**

Substation Project Overview

Typical substation projects include multiple components and systems such as:



**Power
transformers**



**Circuit
breakers**



**Protection
relays**



**Current and voltage
transformers**



**Control and
protection panels**

**Engineering teams must maintain accurate documentation
and project tracking to ensure efficient project execution.**

Project Support Activities

Key activities performed during the project:



Organizing engineering documentation and project files



Assisting with preparation of technical specifications



Supporting engineers with project data organization



Maintaining project progress tracking tables



Coordinating technical information between teams

Project Tracking Example

TASK

Equipment specification

Technical documentation

STATUS

In progress

Completed

RESPONSIBLE

Supplier

Project support

Benefits:



Clear project overview



Improved coordination



Organized engineering tasks

Documentation Management

Activities included:

Structuring technical reports and specifications

Maintaining organized engineering documentation

Preparing technical tables and project data sheets

Ensuring project documents are easy to access and review

Tools used:



Microsoft Excel



Microsoft Word



Engineering Documentation

Results

Results achieved:



**Well-organized
engineering
documentation**



**Improved project
coordination and
tracking**



**Structured
technical project
information**



**Support for efficient
execution of substation
engineering projects**

Real Project Example

SS Skopje 1 110/35 kV substation project:

Task	Status	Responsible	Notes
Transformer installation	Completed	Contractor	Tested and energized
Protection relay configuration	In progress	Protection Engineer	Settings under review
SCADA integration	Pending	Automation Team	Waiting for signals
Cable routing documentation	Completed	Project Support	Updated drawings

Key contribution:

- Maintained and updated project tracking tables
- Ensured all teams had **accurate and up-to-date information**
- Supported coordination between engineering and contractors

Outcome:

- ✓ **Improved communication** between teams
- Reduced delays** in project execution
- Clear visibility** of project progress

Technical Documentation Example

SS Skopje 1 110/35 kV substation project

Technical Documentation:

Document Type	Description	Status
Single Line Diagram	Substation electrical layout	Approved
Protection Scheme	Relay logic and coordination	In review
Equipment Datasheets	Transformer, CB, CT specs	Completed
Cable Schedules	Control and power cables	Updated

Activities performed:

- Structured and formatted engineering documents
- Organized documentation for easy access by teams
- Ensured consistency across technical files

Outcome:

- ✓ **Clear and professional** documentation
- Faster access** to engineering information
- Improved efficiency** during project execution