

FACTS Introduction



Component

École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

- **Ametys Code:** N8AE15A
- **Open to exchange students:** No

Presentation

Objectives

Understand the principles of reactive power control in electric power transmission networks

Description

This course is an introduction to power electronic devices for controlling reactive power in electric power transmission networks. The principles of parallel and series compensation are covered. The method for sizing a compensator based on thyristor-controlled reactors is presented. An example is treated in the form of a case study.

Learn how to size a reactive power compensation device for an electric power transmission line.

Pre-requisites

Methods for modeling and analyzing three-phase electrical networks.