

Cycle of studies:

Master (Laurea Magistrale)

Degree course:

Ingegneria dell'Energia Elettrica

Title of the thesis:

The role of the electric transmission grid in decarbonization process of the Italian power sector

Type:

Experimental / Modelling

RFX Supervisor: C. Bustreo

Academic supervisor: G. Zollino

Head of the RFX research group: E. Gaio

Leader of the RFX research program: S. Peruzzo

Description of the thesis:

The thesis will focus on the development and study of Italian energy scenarios with the COMESE code, developed to assess the techno-economic implications of different decarbonization strategies. In particular, the research will focus on the effects of the Italian power sector evolution on the transmission grid requirements. The model of the transmission grid in COMESE will be studied and further enhanced in order to identify the trade-off between additional connection capacity and generation capacity, so to minimize the total system costs.

Previous experience (if necessary)

Passing the exam "Tecnica ed economia dell'energia"

Date:

15/03/2022

Status: Assegnato

Name of the student: (Stefano Grazian)