

Development and Commissioning of a High-Current Test Bench

Introduction

High-current applications are becoming increasingly important in the context of the energy transition. To support future research and development activities, the Laboratory for Regenerative Electrical Energy Systems (REE) has been provided with a high-current transformer from REO featuring an output voltage of approximately 10 V and an output current of up to 4,000 A.

Objective of the Thesis

The objective of this project is the development, assembly, and commissioning of a high-current test bench with a current capacity of up to 4,000 A in the REE laboratory. Depending on your interests, the project may include theoretical, experimental, and/or simulation-based work. The [REE laboratory](#) provides access to a wide range of measurement equipment and simulation tools to support your work.

Your Profile

- Currently enrolled in a degree program in Renewable Energy, Industrial Engineering, Mechatronics, Electrical Engineering, or a related field
- Interest in renewable energy technologies and innovative energy concepts
- Analytical thinking and a structured approach to problem solving

What we offer

- Opportunity to contribute to real-world, future-oriented research projects with direct practical relevance
- Collaboration with the Technology Transfer Center for Sustainable Energy
- Opportunity to actively contribute and implement innovative ideas

Contact

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