

Master's Thesis

Transforming the European industry sector – will there be industrial production in Europe by 2050 and if so, where?

To fulfill the Paris agreement, the energy-intensive industry will need to undergo a significant restructuring process. For some industry branches, this means that existing production lines will be retired and replaced by Greenfield investments in alternative, emission free production routes. At the time of reinvestment, industrial companies will evaluate where to build the new production site. This leads to the question which factors influence this decision and what effect this will have on the energy system, as large load centers might be relocated.

It is the aim of this Master's thesis to identify the most important criteria for relocating industrial sites and subsequently build a 2050 industrial relocation scenario. The thesis project is part of the three-year research project eXtremOS, in which extreme scenarios for the European energy system are identified and their effects quantified.



Your tasks:

- Identify important locational factors for the energy intensive industry in Europe (proposed method: literature research)
- Define a 2050 reallocation scenario (expert interviews and workshop)
- Quantify this scenario by altering the existing industrial-site regionalization algorithm (SQL skills required)

Your benefits:

- Experience the extraordinary FfE working environment, which combines goal-oriented work, passion for energy research and consulting with positivity and collegiality
- Be part of a highly motivated team, which will support you and your career development.

If you are interested, please send your full application (cover letter, CV and transcript of records) to bewerbung@ffe.de.

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