

Robert Gaugl

POSTDOC, UNIVERSITY PROJECT ASSISTANT

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WORK EXPERIENCE

2023 Now

University Project Assistant

Institute of Electricity Economics and Energy Innovation/Graz University of Technology

Power system modeling, Working on Projects InfraTrans2040 to support the preparation of the Integrated Austrian Network Infrastructure Plan (NIP) and ÖSpeicher2040 to determine the need for short-, medium- and long-term storage in the Austrian power system by 2040.

2017 2023

University Assistant

Institute of Electricity Economics and Energy Innovation/Graz University of Technology

Further development of the ATLANTIS and LEGO power system models; Techno-economic and GIS-based analyses; Publication activities in national and international conferences and peer-review journals; Participation in project applications and project management; Supervision of bachelor and master theses; Teaching; IT administrator; Participation in the organization of the energy innovation symposia EnInnov 2018, 2020 and 2022

RESEARCH VISITS ABROAD



Universidad de Málaga
September 2023



Massachusetts Institute of Technology
May – June 2023

PROJECTS



ÖSpeicher2040

07.2023 – 10.2023

Determining Austria's power system's short-, medium- and long-term energy storage requirements.



AgroStore

09.2020 – 10.2023

Modeling of storage systems in agriculture to determine the optimal PV and storage size.



InfraTrans2040

10.2021 – 08.2023

Evaluating scenarios for the energy infrastructure to enable a sustainable energy system in Austria.



START2030

10.2020 – 10.2022

Analyses of the economic incidence and social impacts of a transition to 100% RES-E in Austria.

EDUCATION BACKGROUND



2017-2023 PhD – Graz University of Technology

Electrical Engineering

Towards Highly Renewable Power Systems: Algorithms, Optimization Models & Techno-Economic Analyses



2014-2017 MSc – Graz University of Technology

Electrical Engineering

Model of the hourly Photovoltaic Power Generation for France and Germany



2004-209 HTBL Kapfenberg

Electrical Engineering



2010-2014 BSc – Graz University of Technology

Electrical Engineering

EXPERTISE

●●●●● German (C2)

●●●●● MS Office

●●●●○ Python

●●●●○ ArcGIS

●●●●○ English (C1)

●●●●○ GAMS

○○○○○ MATLAB

●●●●○ LaTeX

HOBBIES AND INTERESTS

🏃 Running

🥾 Hiking

🚴 (Mountain-) Biking

🧗 Bouldering

🎨 Graphics/Design

💻 Tech

🏎 Formula 1

🎬 Movies