

Philipp Thunshirn

Academic degree: DDI

Date of birth: 24.10.1991, Vienna, Austria

Address: Felixgasse 22, 1130 Vienna, Austria

E-Mail: philipp.thunshirn@outlook.com

Education

● 03/17 – 07/20: University of Natural Resources and Life Sciences, Vienna, Austria

Master's degree Material and Energetic Exploitation of Renewable Raw Materials

- Specialization in energy engineering and energy economics
- Erasmus semester at KU Leuven, Belgium
- Master's thesis at the Institute for Process and Energy Engineering/Institute for Soil Research

● 03/17 – 06/20: University of Natural Resources and Life Sciences, Vienna, Austria

Master's degree Environment and Bioresourcesmanagement

- Specialization „Energy“
- Master's thesis at the Institute for Social Ecology – BOKU Talent Award

● 09/12 – 03/17: University of Natural Resources and Life Sciences, Vienna, Austria

Bachelor's degree Environment and Bioresourcesmanagement

- Bachelor thesis about the Austrian wind power industry

● 10/04 – 06/12: Music and Arts University of the City of Vienna, Vienna, Austria

Concert subject classical guitar

● 2002 – 2010: Federal secondary school GRG 13 Wenzgasse, Vienna, Austria

Professional Experience

● 01/2021 – ongoing: University of Applied Sciences Technikum Wien, Vienna, Austria

Lecturer/Researcher in the Resilient Energy Systems competence field

- Teaching (Course Responsibility): Biomass heat supply, Biomass Combined Heat and Power Systems, Energy and Environmental Engineering,
- Research: Project management and participation in various research projects in the area of sustainability assessment of flexibilities in the energy system ([DIGENSIO](#) and [Car2Flex](#))

- 11/2020 – 12/2020: University of Natural Resources and Life Sciences, Vienna, Austria
University assistant at the Institute for Social Ecology
- 09/2019: Wegener Center for Climate and Global Change, University of Graz, Graz, Austria
Research internship in the field of energy economics and modeling
- 07/2017 – 10/2017: Forum ecological social market economy, Berlin, Germany
Research internship in the field of energy policy

Publications

- P. Thunshirn, I. Mlinaric. "Vulnerable Groups and Social Marginalization Risks in the Digital Energy Transition: A Review". New Developments in Environmental and Energy Technologies - Proceedings of the 2023 5th International Conference on Environmental Sciences and Renewable Energy (2023), in press.
- G. Kalt, P. Thunshirn, F. Krausmann, H. Haberl. „Material requirements of global electricity sector pathways to 2050 and associated greenhouse gas emissions". Journal of Cleaner Production, 358 (2022), p. 132014
- G. Kalt, P. Thunshirn, D. Wiedenhofer, F. Krausmann, W. Haas, H. Haberl. „Material stocks in global electricity infrastructures – an empirical analysis of the power sector's stock-flow-service nexus". Resour. Conserv. Recycl., 173 (2021), p. 105723
- G. Kalt, P. Thunshirn, H. Haberl. „A global inventory of electricity infrastructures from 1980 to 2017: Country-level data on power plants, grids and transformers". Data in Brief, 38 (2021), p. 107351
- P. Thunshirn, W. Wenzel, C. Pfeifer. „Pore characteristics of hydrochars and their role as a vector for soil bacteria: A critical review of engineering options". Critical Reviews In Environmental Science and Technology 52 (2021), p. 1-25