

**Current positions**

Leader of Helmholtz Young Investigator Group on “New Methodologies to Master Complexity in Energy System Optimizations” at KIT (since 2018)

KIT Associate Fellow (since 2018)

Previous positions (two selected)

Postdoc at Frankfurt Institute for Advanced Studies (2015-2017)

Senior researcher at Energynautics GmbH (2012-2015)

Scientific degrees

PhD in Physics, Queen Mary, University of London, UK (2009)

BA and MMath at the University of Cambridge, UK (2005)

Recent research topics

Energy System Design, Grid Integration of Renewable Energy, Open Data and Software for Research Transparency

Awards, honors, memberships

Larmor Prize, St. John’s College Cambridge;
Scholar of St. John’s College Cambridge

Publications (5 most important)

- **T. Brown, D. Schlachtberger, A. Kies, S. Schramm, M. Greiner**, Synergies of sector coupling and transmission reinforcement in a cost-optimised, highly renewable European energy system, *Energy* 160, 720 (2018) [doi:10.1016/j.energy.2018.06.222](https://doi.org/10.1016/j.energy.2018.06.222)
- **T. Brown, J. Hörsch, D. Schlachtberger**, PyPSA: Python for Power System Analysis, *J. Open Res. Softw.* 6, (2018) [doi:10.5334/jors.188](https://doi.org/10.5334/jors.188)
- **T.W. Brown, T. Bischof-Niemz, K. Blok, C. Breyer, H. Lund, B.V. Mathiesen**, Response to ‘Burden of proof: A comprehensive review of the feasibility of 100% renewable-electricity systems’, *Renew. Sustainable Energy Rev.* 92, 834 (2018) [doi:10.1016/j.rser.2018.04.113](https://doi.org/10.1016/j.rser.2018.04.113)
- **D. Schlachtberger, T. Brown, S. Schramm, M. Greiner**, The Benefits of Cooperation in a Highly Renewable European Electricity System, *Energy* 134, 469 (2017) [doi:10.1016/j.energy.2017.06.004](https://doi.org/10.1016/j.energy.2017.06.004)
- **D. Schlachtberger, T. Brown, M. Schäfer, S. Schramm, M. Greiner**, Cost-optimal scenarios of a future highly renewable European electricity system: Exploring the influence, of weather data, cost parameters and policy constraints, *Energy* 163, 100 (2018), [doi:10.1016/j.energy.2018.08.070](https://doi.org/10.1016/j.energy.2018.08.070)