

Schriftenverzeichnis

Veröffentlichungen (peer reviewed)

- Mittler, C., Bucksteeg, M., Staudt, P., (2025). **Review and morphological analysis of renewable power purchasing agreement types**. Renewable and Sustainable Energy Reviews 211, 115293. <https://doi.org/10.1016/j.rser.2024.115293>
- Bucksteeg, M., Voswinkel, S., Blumberg, G. (2024). **Improving flow-based market coupling by integrating redispatch potential—Evidence from a large-scale model**. In: Energy Policy, 188, 114093. <https://doi.org/10.1016/j.enpol.2024.114093>
- Bucksteeg, M., Mikurda, J., Weber, C. (2023). **Integration of power-to-gas into electricity markets during the ramp-up phase—Assessing the role of carbon pricing**. In: Energy Economics, 124, 106805. <https://doi.org/10.1016/j.eneco.2023.106805>
- Ruhnau, O., Bucksteeg, M., Ritter, D., Schmitz, R., Böttger, D., Koch, M., Pöstges, A., Wiedmann, M., Hirth, L. (2022). **Why electricity market models yield different results: Carbon pricing in a model-comparison experiment**. Renewable and Sustainable Energy Reviews 153, 111701. <https://doi.org/10.1016/j.rser.2021.111701>
- Pöstges, A., Bucksteeg, M., Ruhnau, O., Böttger, D., Haller, M., Künle, E., Ritter, D., Schmitz, R., Wiedmann, M. (2022). **Phasing out coal: An impact analysis comparing five large-scale electricity market models**. Applied Energy 319, 119215. <https://doi.org/10.1016/j.apenergy.2022.119215>
- Gardian, H., Beck, J.-P., Koch, M., Kunze, R., Muschner, C., Hülk, L., Bucksteeg, M. (2022). **Data harmonisation for energy system analysis – Example of multi-model experiments**. Renewable and Sustainable Energy Reviews 162, 112472. <https://doi.org/10.1016/j.rser.2022.112472>
- Bucksteeg, M., Wiedmann, M., Pöstges, A., Haller, M., Böttger, D., Ruhnau, O., Schmitz, R. (2022). **The transformation of integrated electricity and heat systems—Assessing mid-term policies using a model comparison approach**. Renewable and Sustainable Energy Reviews 160, 112270. <https://doi.org/10.1016/j.rser.2022.112270>
- Weber, C., Heidari, S., Bucksteeg, M. (2021). **Coping with Uncertainties in the Electricity Sector - Methods for Decisions of Different Scope**. Economics of Energy & Environmental Policy, 10(1). <https://doi.org/10.5547/2160-5890.10.1.cweb>
- Bucksteeg, M., Spiecker, S., & Weber, C. (2019). **Impact of Coordinated Capacity Mechanisms on the European Power Market**. The Energy Journal, 40(2). <https://doi.org/10.5547/01956574.40.2.mbuc>
- Bucksteeg, M. (2019). **Modelling the impact of geographical diversification of wind turbines on the required firm capacity in Germany**. Applied Energy, 235, 1476–1491. <https://doi.org/10.1016/j.apenergy.2018.11.031>

- Bucksteeg, M., Niesen, L., & Weber, C. (2016). **Impacts of Dynamic Probabilistic Reserve Sizing Techniques on Reserve Requirements and System Costs**. IEEE Transactions on Sustainable Energy, 7(4), 1408–1420. <https://doi.org/10.1109/TSTE.2016.2555483>
- Bucksteeg, M., Trepper, K., & Weber, C. (2015). **Impacts of renewables generation and demand patterns on net transfer capacity: Implications for effectiveness of market splitting in Germany**. IET Generation, Transmission & Distribution, 9(12), 1510–1518. <https://doi.org/10.1049/iet-gtd.2014.1063>
- Trepper, K., Bucksteeg, M., Weber, C. (2015). **Market splitting in Germany – New evidence from a three-stage numerical model of Europe**. In: Energy Policy, 87, S. 199-215. <https://doi.org/10.1016/j.enpol.2015.08.016>

Eingereichte Beiträge (under review)

- Breder, M.S., Hofmann, A., Bucksteeg, M., Weber, C. (2024). **Economic analysis of behavioral aspects of electromobility with a focus on consumers: A Review**. Submitted to Energy Strategy Reviews (under review). Submitted Manuscript available at: <https://dx.doi.org/10.2139/ssrn.4930057>
- Meurer, F., Breder, M.S., Bucksteeg, M., Hobbie, H., Möst, D., Scharf, H., Weber, C. (2024). **Can an Obligation Bridge Germany's PV Capacity Gap? Insights from a Regional Case Study**. Submitted to Energy Policy (under review).
- Meurer, F., Bucksteeg, M., Weber, C. (2023). **Incentivizing Flexible Operation of Bioenergy Power Plants – subsidies, markets, or both?** Submitted to Heliyon (first revision). Submitted Manuscript available at: <https://ssrn.com/abstract=4317714>
- Breder, M. S., Meurer, F., Bucksteeg, M., Weber, C. (2022). **Spatial Incentives for Power-to-Hydrogen through Market Splitting**. Available at: <http://dx.doi.org/10.2139/ssrn.4173211>

Weitere Veröffentlichungen

- Bucksteeg, M., Niesen, L., Weber, C. (2015). **Dynamische Reservebemessung - Implikationen für den zukünftigen RegelleLeistungsbedarf und die Systemkosten**. In: Optimierung in der Energiewirtschaft VDI-Berichte Nr. 2266. VDI Verlag GmbH, S. 165-177.
- Bucksteeg, M., Trepper, K., Weber, C. (2013). **Einfluss der erneuerbaren Einspeisung und Lastsituation auf die Net Transfer Capacity**. In: Optimierung in der Energiewirtschaft VDI Berichte Nr. 2212. VDI Verlag GmbH, S. 247-264.
- Weber, C., Bucksteeg, M., Schuffelen, L., Wolter, H., Baumgart, B., Willemsen, D. (2013). **Anforderungen an Kapazitätsmechanismen in Deutschland – was ist zielführend, was nicht?** In: Energiewirtschaftliche Tagesfragen, 63 (1/2), S. 45-49.
- Held, S., Bucksteeg, M. (2010). **Target Costing im Vertriebsbereich von Energieversorgungsunternehmen - Marktorientierte Kalkulation von Dienst- und Serviceleistungen**. In: Energiewirtschaftliche Tagesfragen, 6, S. 40-45.