

## Peer-reviewed publications

1. Levesque, A., Osorio, S., Herkel, S., Pahle, M., 2023. Rethinking the role of efficiency for the decarbonization of buildings is essential. Joule. <https://doi.org/10.1016/j.joule.2023.05.011>
2. Lonergan, K.E., Egli, F., Osorio, S., Sansavini, G., Pahle, M., Schmidt, T.S., Steffen, B., 2023. Improving the representation of cost of capital in energy system models. Joule. <https://doi.org/10.1016/j.joule.2023.02.004>
3. Pahle, M., Tietjen, O., Osorio, S., Egli, F., Steffen, B., Schmidt, T. S., Edenhofer, O., 2022. Safeguarding the energy transition against political backlash to carbon markets. Nat. Energy 1–7. <https://doi.org/10.1038/s41560-022-00984-0>
4. Osorio, S., Tietjen, O., Pahle, M., Pietzcker, R.C., Edenhofer, O., 2021. *Reviewing the Market Stability Reserve in light of more ambitious EU ETS emission targets*. Energy Policy 158, 112530. <https://doi.org/10.1016/j.enpol.2021.112530>
5. Pietzcker, R.C., Osorio, S., Rodrigues, R., 2021. *Tightening EU ETS targets in line with the European Green Deal: Impacts on the decarbonization of the EU power sector*. Appl. Energy 293, 116914. <https://doi.org/10.1016/j.apenergy.2021.116914>
6. Osorio, S., Pietzcker, R.C., Pahle, M., Edenhofer, O., 2020. *How to deal with the risks of phasing out coal in Germany*. Energy Econ. 87, 104730. <https://doi.org/10.1016/j.eneco.2020.104730>
7. Larsen, E.R., van Ackere, A., Osorio, S. (2018). *Can electricity companies be too big to fail?* Energy Policy 119, 696–703. <https://doi.org/10.1016/j.enpol.2018.05.010>
8. Osorio, S., van Ackere, A., Larsen, E.R. (2017). *Interdependencies in security of electricity supply*. Energy 135, 598–609. [doi:10.1016/j.energy.2017.06.095](https://doi.org/10.1016/j.energy.2017.06.095)
9. Larsen, E.R., Osorio, S., van Ackere, A. (2017). *A framework to evaluate security of supply in the electricity sector*. Renew. Sustain. Energy Rev. 79, 646–655. [doi:10.1016/j.rser.2017.05.085](https://doi.org/10.1016/j.rser.2017.05.085)
10. Osorio, S., van Ackere, A. (2016). *From nuclear phase-out to renewable energies in the Swiss electricity market*. Energy Policy 93, 8–22. [doi:10.1016/j.enpol.2016.02.043](https://doi.org/10.1016/j.enpol.2016.02.043)
11. Osorio Ruiz, Sebastián and Olaya Morales, Yris (2011). *Análisis del comercio de gas entre Colombia y Venezuela / Analysis of natural gas trade between Colombia and Venezuela*. Dyna, 78 (167). pp. 27-35. ISSN 0012-7353

## **Reports and policy briefs**

1. Pietzcker, R., Feuerhahn, J., Haywood, L., Knopf, B., Leukhardt, F., Luderer, G., Osorio, S., Pahle, M., Rodrigues, R., Edenhofer, O. (2021). *Notwendige CO2-Preise zum Erreichen des europäischen Klimaziels 2030.* <https://ariadneprojekt.de/publikation/notwendige-co2-preise-zum-erreichen-des-europaeischen-klimaziels-2030/>
2. Kriegler, E., Gulde, R., Colell, A., von Hirschhausen, C., Minx, J.C., Oei, P.-Y., Yanguas-Parra, P., Bauer, N., Brauers, H., Broska, L.H., Groh, E., Hagen, A., Hainsch, K., Holz, F., Hübner, M., Jakob, M., Khabbazan, M.M., Leimbach, M., Manych, N., Montes de Oca León, M., Ohlendorf, N., Osorio, S., Pahle, M., Reutter, L., Shamon, H., Steckel, J., Strefler, J., Vance, C., Vögele, S., von Wangenheim, G., Walk, P., Wittenberg, I., Zundel, S. (2020). *Ausstieg aus fossilen Energieträgern - wie gelingt eine faire Systemtransformation.* <https://doi.org/10.2312/pik.2020.004>

## **Non peer-reviewed publications**

1. Pahle, M., Tietjen, O., Osorio, S., Knopf, B., Flachsland, C., Korkmaz, P., Fahl, U., 2020. *Die Anschärfung der EU-2030-Klimaziele und Implikationen für Deutschland.* Energiewirtschaftliche Tagesfragen 70, 10–13.
2. Pahle, M., Edenhofer, O., Pietzcker, R., Tietjen, O., Osorio, S., Flachsland, C. (2019). *Die unterschätzten Risiken des Kohleausstiegs.* Energiewirtschaftliche Tagesfragen 69, 1–4.
3. Osorio, S., van Ackere, A., Larsen, E.R., 2017. Too big to fail in the electricity sector. Singapore Issue 2017, 26-28. Published by the International Agency for Energy Economics (IAEE). Available at <http://www.iaee.org/documents/2017EnergyForumSI.pdf>

## **Blogs and articles in media**

1. Günther, Claudia, Michael Pahle, Sebastian Osorio, and Simon Quemin. 2023. Europe Needs to Urgently Prepare for Carbon Market ‘Endgame.’ Www.Euractiv.Com. April 28, 2023. <https://www.euractiv.com/section/emissions-trading-scheme/opinion/europe-needs-to-urgently-prepare-for-carbon-market-endgame/>
2. Osorio, S., Pahle, M., Ruhnau, O., 2022. If Buildings Renovation fails, the EU ETS pricing mechanism must change. Energy Post. URL <https://energypost.eu/if-buildings-renovation-fails-the-eu-ets-pricing-mechanism-must-be-changed/>

## **Presentations in conferences**

1. Osorio, S., Levesque, A., Pahle, M., Ruhnau, O., Gueret, A., Pietzcker, R. (2023). *What buildings decarbonisation means for the EU ETS*. European Climate and Energy Modelling Platform (ECEMP), online.
2. Osorio, S., Levesque, A., Pahle, M., Ruhnau, O., Gueret, A., Pietzcker, R. (2023). *What buildings decarbonisation means for the EU ETS*. The 40<sup>th</sup> International Energy Workshop (IEW), Freiburg (Germany).
3. Osorio, S., Pietzcker, R.C., Rodrigues, R. (2021). *Tightening EU ETS targets in line with the European Green Deal: Impacts on the decarbonization of the EU power sector*. The 39<sup>th</sup> International Energy Workshop (IEW), online.
4. Osorio, S., Tietjen, O., Pahle, M., Pietzcker, R.C. (2020). *Increasing the stringency of the EU ETS to achieve more ambitious climate targets*. The 25<sup>th</sup> EAERE Annual Conference, Berlin (Germany).
5. Osorio, S., Pietzcker, R.C., Pahle, M (2019). *Triggering decarbonisation in the industry: Analysing the sectoral interactions within the EU ETS and the role of the MSR*. The 42<sup>nd</sup> IAEE International Conference, Montreal (Canada).
6. Osorio, S., Pietzcker, R.C., Pahle, M (2018). *Coal Phase-out in Germany: Analysing the Policy Interplay with other EU Members*. The 41<sup>st</sup> IAEE International Conference, Groningen (Netherlands).
7. Osorio, Sebastian; Larsen, Erik and van Ackere, Ann (2017). *Too Big to Fail in the Electricity Sector*. The 40<sup>th</sup> IAEE International Conference, Singapore (Singapore).
8. Osorio, Sebastian; Larsen, Erik and van Ackere, Ann (2016). *Assessing the Interdependencies among Dimensions of Security of Supply in the Electricity Sector*. The 39<sup>th</sup> IAEE International Conference, Bergen (Norway).
9. Osorio, Sebastian; van Ackere, Ann and Larsen, Erik (2015). *Formulating a Framework for Assessing the Security of Supply in Electricity Markets*. The 38<sup>th</sup> IAEE International Conference, Antalya (Turkey).
10. Osorio, Sebastian and van Ackere, Ann (2014). *Encouraging Hydro-Solar Complementarity in the Swiss Electricity Market*. The 14<sup>th</sup> IAEE European Energy Conference, Rome (Italy).
11. Osorio, Sebastian and van Ackere, Ann (2014). *Security of Supply in the Swiss Electricity Market: A System Dynamics Approach*. The 32<sup>nd</sup> International Conference of the System Dynamics Society, Delft (Netherlands).