

Friedrich-Alexander University Erlangen-Nürnberg

Sustainability Transition Policy  
Lange Gasse 20  
90403 Nürnberg  
Germany

E-Mail: johan.lilliestam@fau.de

Date of birth: 01. November 1980  
Nationality: Swedish

Updated as of 12 May 2026

ORCID: 0000-0001-6913-5956

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## WORK EXPERIENCE

### September 2023-

**Friedrich-Alexander University Erlangen-Nürnberg, Germany.**

*Professor of Sustainability Transition Policy*, School of Business, Economics and Society

### April 2019-August 2023

**University of Potsdam, Germany.**

*Professor of Energy Policy*, Faculty of Economics and Social Science, Section Political and Administrative Sciences.

### January 2023-August 2023

**Helmholtz Centre Potsdam, Research Institute for Sustainability (RIFS), Potsdam, Germany.**

*Research group leader, Energy Transitions and Public Policy*, Research area *Energy Systems and Societal Change*.

### April 2019-December 2022

**Institute for Advanced Sustainability Studies (IASS), Potsdam.**

(Institute integrated into the Helmholtz Centre Potsdam in January 2023)

*Research group leader, Energy Transitions and Public Policy*, Research area *Energy Systems and Societal Change*.

### August 2017-March 2019

**Federal Swiss Institute for Technology (ETH) Zürich, Switzerland**

*Assistant Professor of Renewable Energy Policy, Head of the Renewable Energy Policy Group*, Institute for Environmental Decisions, Department for Environmental Systems Science.

### December 2013-July 2017

Federal Swiss Institute for Technology (ETH) Zürich, Switzerland.

*Senior researcher (Oberassistent), Climate Policy Group*, Institute for Environmental Decisions, Department for Environmental Systems Science.

### November 2007-November 2013

Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany.

*Researcher* (Wissenschaftlicher Mitarbeiter), Research Domain IV: *Transdisciplinary Concepts and Methods*.

### November 2009-September 2013

International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria.

*Research assistant, Risk, policy and vulnerability program*.

## AWARDS and SCHOLARSHIPS

- 2022-2025**    **Top 2% most cited researchers**, Stanford List. [Link](#).
- Dec. 2022**    **Media test (Pressstellentest)**, First place, PR Magazine, <https://prmagazin.de/durchwachsenes-klima/>.
- March 2022**    **Top cited paper 2020-2021**, and **Top cited paper 2021-2022**, for the paper Lilliestam et al. (2021): *The effect of carbon pricing on technological change*, in: WIREs Climate Change
- Oct. 2013**    **Desertec best paper award**, for “outstanding academic work in the field of renewable energy in North African and Middle Eastern deserts”, Desertec University Network, Dii, Rabat, Morocco.
- Jan. 2013**    **Award for advanced doctoral students** for “outstanding student research”, €800, Central European University, Budapest, Hungary.
- Dec. 2011**    **Academic achievement award** for first year doctoral students, for “outstanding coursework and performance during the comprehensive exam”, €500, Central European University, Budapest, Hungary.
- Nov. 2011**    **Desertec thesis award, 1<sup>st</sup> prize**, for “outstanding academic work in the field of renewable energy in North African and Middle Eastern deserts”, Desertec Foundation, Desertec University Network, DII, Cairo, Egypt.
- 2010-2013**    **Full tuition waiver scholarship** for studies in the Doctoral program in Environmental sciences and policy at the Central European University (€11.000 first year, €5.500 second and third year), CEU, Budapest, Hungary.
- 2006-2007**    **German academic exchange service (DAAD) full time scholarship** (10x€700) for studies at the Masters programme “Public and private environmental management” at Freie Universität Berlin, Germany.

## EDUCATION

### Nov. 2010-Sept. 2013

**PhD**, Environmental Public Policy, Department for Environmental sciences and policy, Central European University, Budapest, Hungary. Dissertation: *Energy security in a European-North African renewables-based electricity Supergrid*. Supervisor: Prof. Aleh Cherp. Defence date: 11 Sept. 2013.

**Oct. 2005-Oct. 2007**

**Master of Arts**, “Public and private environmental management”, Environmental Policy Research Centre, Freie Universität Berlin, Germany. **Final grade: 1.3**, October 2007. Master thesis: *The creation of the pan-Nordic electricity market*. **Master thesis grade: 1.1**.

**Sept. 2000-June 2005**

**Master of Science**, “Problem solving in science”, Department of Physics, Göteborgs Universitet, Sweden, June 2005. Master thesis: *Expected profitability of wind power projects in Sweden and Germany*. **Master thesis grade: High pass** (out of Pass and High pass). Final grades not given.

**Jan.-Apr. 2003 Rhetoric**, Department of humanities, Göteborgs Universitet, Sweden. 15 ECTS. Grade: High pass.

**Oct. 2001-Sept. 2002**

**Exchange year**, Institute for Physics (Winter semester 2001/02) and Institute for History (Summer semester 2002), Humboldt-Universität zu Berlin, Berlin, Germany.

**1996-1999 Upper secondary school** at Burgårdens Utbildningscentrum, Göteborg, Sweden. Programme of natural sciences. **Final grade 17.3** (out of 20 points possible).

## POSITIONS OF TRUST

**2025-current Lead author in the Intergovernmental Panel on Climate Change (IPCC)**, Assessment Report 7, Working group III, Chapter 9 Energy systems.

**2024-current Member of FAU Kompetenzzentrum Lehre**, FAU Erlangen-Nürnberg.

**2024-current Mentor, ARIADNE female scientist mentoring programme**, (first round 24-26, second phase 26-28), FAU Erlangen-Nürnberg.

**2023-current Vice speaker, Sustainability Research Focus**, School of Business, Economics and Society, Friedrich-Alexander University Erlangen-Nürnberg, Germany.

**2021-current Project proposal evaluator**, Regular evaluations for German Research Foundation (DFG) and German Federal Ministry for Education and Research (BMBF).

Single evaluations for various organisations, e.g. Moroccan Ministry for education and scientific research.

**2021-current Advisory board member**, *LIVEN* and *LIVEN2* (Laboratory of socio-ecological analysis for the energy transition), Autonomous University Barcelona, Spain.

**2011-current Ad-hoc manuscript peer reviewer** for among others *Nature Climate Change*; *Nature Energy*; *Joule*; *One Earth*, *Energy Policy*; *Energy Research & Social Science*; *Environmental innovation & societal transitions*; *Climatic Change*; *Applied Energy*; *Politics and Governance*; *Empirica*.

**2023-2025 Advisory board member**, *Socio-economic pathways project*, Swiss National Centre for Climate Services (NCCS). Coordinator: Swiss Federal Institute for Forest, Snow and Landscape.

**2022-2025 Advisory board member**, *WIMBY* (Wind in my backyard: using holistic modelling tools to advance social awareness and engagement on large wind power installations in the EU), Horizon Europe project. Coordinator: Vrije Universiteit Brussel.

**Dec.21-Dec.22 Ombudsman for good scientific practice**, Institute for Advanced Sustainability Studies, Potsdam, Germany. 01.12.01-22.12.31.

- 03.19-09.20** **Editor**, *PLOS ONE Responding to climate change channel*.  
<https://channels.plos.org/rtcc>.
- 2020** **Member of the Scientific Committee**, SolarPACES, Albuquerque, USA.
- 2020** **Policy Associate**, Energy-SHIFTS, Anglia Ruskin University.
- 2020-2021** **Working Group member (WG1 Renewables)**, Energy-SHIFTS, Erasmus University Rotterdam.
- 2017-current** **Moderator of [www.csp.guru](http://www.csp.guru)**, an open data initiative for concentrating solar power.
- 2019** **Member of the Scientific Committee**, SolarPACES, Daegu, South Korea.
- Sept. 18** **Mentor**, *ETH week: Energy Matters*, Energy Science Centre, ETH Zürich, Switzerland.
- 2017** **Member of the Scientific Committee**, SolarPACES, Santiago de Chile.
- 2015-2017** **Member of the Teaching Commission** Environmental Science, Department for Environmental Systems Science (D-USYS), ETH Zürich.
- 2013-2015** **Advisory board member**, *BETTER project*, European Commission: Intelligent Energy Europe.
- 2007-2011** **The Compensators\***, an NGO which offers households and individuals the possibility to offset their CO<sub>2</sub> emissions by buying and deleting EUAs from the EU Emissions Trading Scheme. Responsible for climate change, climate policy and protection lectures. See [www.thecompensators.org](http://www.thecompensators.org).

## LANGUAGES

- Swedish** Native language.
- German** Fluent (C2).
- English** Fluent (C2).

## PUBLICATIONS

*Citation metrics* (updated 2026-05-12)

**Scopus:** 86 indexed articles, 3793 citations, h-index: 32.

**Google Scholar:** 240 indexed articles, 6313 citations, h-index: 39, i10 index: 73.

### Peer-reviewed articles

- Bersalli, G., Gottheit, D., **Lilliestam, J.**: A simple yet holistic approach for assessing systemic change in sectoral zero-carbon transitions: the case of electricity in Europe, in: *Current Research in Environmental Sustainability* 11, pp. 100342. <https://doi.org/10.1016/j.crsust.2026.100342> (Open Access)
- Scholz, R., **Lilliestam, J.**: Justice in the spotlight - do parliamentary debates shape Germany's energy transition, in: *Energy Research & Social Science* 132, pp. 104526. <https://doi.org/10.1016/j.erss.2025.104526> (Open Access)
- Tröndle, T., Mey, F., **Lilliestam, J.** (2025): Socially preferable and technically feasible: European citizens choose solar power and import independence over lower costs, in: *Energy Research & Social Science* 129, pp. 104364. <https://doi.org/10.1016/j.erss.2025.104364> (Open Access)

- Lilliestam, J.**, Eckardt, J., Bersalli, G. (2025): Sequencing, spending and symbolism: low carbon taxes primarily serve purposes other than emissions reduction, in: *One Earth*, pp. 101390. <https://doi.org/10.1016/j.oneear.2025.101390> (Open Access)
- McKenna, R., **Lilliestam, J.**, Heinrichs, H., Weinand, J., Schmidt, J., Staffell, I., Hahmann, A., Burgherr, P., Burdack, A., Bucha, M., Chen, R., Klingler, M., Lehmann, P., Lowitzsch, J., Novo, R., Price, J., Sacchi, R., Scherhauser, P., Schöll, E., Visconti, P., Velasco-Herrejon, P., Zeyringer, M., Ramirez Camargo, L. (2025): System impacts of wind energy developments: key research challenges and opportunities, in: *Joule* 9, Issue 1, pp. 101799. <https://doi.org/10.1016/j.joule.2024.11.016>. (Open Access)
- Gusheva, E., Pfenninger, S., **Lilliestam, J.** (2024): Past peak prominence: the changing role of integrated assessment modelling in the IPCC, in: *iScience* 27, Issue 11, pp.111213 <https://doi.org/10.1016/j.isci.2024.111213>. (Open Access)
- Mey, F., Mangalagiu, D., **Lilliestam, J.** (2024): Anticipating socio-technical tipping points, in: *Global Environmental Change* 89, pp. 102911. <https://doi.org/10.1016/j.gloenvcha.2024.102911>. (Open Access)
- Thonig, R., **Lilliestam, J.** (2024): Cross-technology legitimacy feedback: the politics of policy-led innovation for complementarity in concentrating solar power, in: *Environmental Innovation and Societal Transitions* 52, pp. 100884. <https://doi.org/10.1016/j.eist.2024.100884>. (Open Access)
- Mey, F., Weik, A., **Lilliestam, J.** (2024): From gray to green? Tipping a coal region incrementally, in: *Global Environmental Change* 87, July 2024, pp. 102862. <https://doi.org/10.1016/j.gloenvcha.2024.102862>. (Open access)
- Brazzola, N., Moretti, C., Sievert, K., Patt, A., **Lilliestam, J.** (2024): Utilizing CO<sub>2</sub> as a strategy to scale up direct air capture may face fewer short-term barriers than directly storing CO<sub>2</sub>, in: *Environmental Research Letters* 19(5), pp. 054037. <https://doi.org/10.1088/1748-9326/ad3b1f>. (Open access)
- Mey, F., **Lilliestam, J.**, Wolf, I., Tröndle, T. (2024): Visions for our future regional electricity system - citizen preferences in four EU countries, in *iScience* 27, Issue 4, pp. 109269 <https://doi.org/10.1016/j.isci.2024.109269>. (Open access)
- Bersalli, G., Heckmann, L., Tröndle, T., **Lilliestam, J.** (2024): Economic crises as critical junctures for decarbonisation? The cases of Spain and Germany, in: *Climate Policy* 24(3), pp. 410-427. <https://doi.org/10.1080/14693062.2024.2301750>. (Open access)
- Süsser, D., Schibline, A., Ceglaz, A., **Lilliestam, J.**, Stavrakas, V., Schweizer, P. (2024): How the COVID-19 pandemic changed stakeholder engagement processes in sustainability research in the long term, in: *F1000* 13(458). <https://doi.org/10.12688/f1000research.145238.1>. (Open access)
- Bersalli, G., Tröndle, T., **Lilliestam, J.** (2023): Most industrialised countries have peaked carbon dioxide emissions during economic crises through strengthened structural change, in: *Communications Earth and Environment* 4, pp. 44. <https://www.nature.com/articles/s43247-023-00687-8.pdf>. (Open access)
- Apergi, M., Zimmermann, E., Weko, S., **Lilliestam, J.** (2023): Is renewable energy technology trade more or less conflictive than other trade?, in: *Energy Policy* 177, pp. 113538.
- Lilliestam, J.**, Du, F., Gilmanova, A., Mehos, M., Wang, Z., Thonig, R. (2023): Scaling up CSP: how long will it take? In: *AIP Conference Proceedings* 2815, pp. 050003. <https://doi.org/10.1063/5.0148709>. (Open access)
- Thonig, R., **Lilliestam, J.** (2023): Concentrating solar technology policy should encourage high temperatures and modularity to enable spillovers, in: *AIP Conference Proceedings* 2815, pp. 050005. <https://doi.org/10.1063/5.0149423>. (Open access)

- Lilliestam, J.**, Patt, A., Bersalli, G. (2022): The observed effects of carbon pricing on zero-carbon investments, innovation, and emission reductions. A response to van den Bergh and Savin, in: *Environmental and Resource Economics* 83, pp. 733-758. <https://doi.org/10.1007/s10640-022-00708-8>. (Open access)
- Kleanthis, N., Stavrakas, V., Ceglaz, A., Süsser, D., Schibline, A., **Lilliestam, J.**, Flamos, A. (2022): Eliciting knowledge embedded in stakeholders to identify critical issues of the transition to climate neutrality in Greece, the Nordic region and the European Union, in: *Energy Research & Social Science* 93, pp. 102836. <https://doi.org/10.1016/j.erss.2022.102836>. (Open access)
- Süsser, D., Stavrakas, V., Martin, N., Gaschnig, H., Tales-Peiró, L., Flamos, A., Madrid-López, C., **Lilliestam, J.** (2022): Why energy models should integrate social and environmental factors: Assessing user needs, omission impacts, and real-word accuracy in the European Union, in: *Energy Research & Social Science* 92, pp. 102775. <https://doi.org/10.1016/j.erss.2022.102775>. (Open access)
- Chatterjee, S., Stavrakas, V., Orggioni, D., Süsser, D., Staffell, I., Molnar, G., **Lilliestam, J.**, Flamos, A., Ürge-Vorsatz, D. (2022): Existing tools, user needs and required model adjustments for energy demand modelling of a carbon-neutral Europe, in: *Energy Research & Social Science* 90, p. 102662. <https://doi.org/10.1016/j.erss.2022.102662>. (Open access)
- Schäppi, R., Rutz, D., Dähler, F., Muroyama, A., Haueter, P., **Lilliestam, J.**, Patt, A., Furler, P., Steinfeld, A. (2022): Drop-in fuels from sunlight and air, in *Nature* 601, pp. 63-68. <https://www.nature.com/articles/s41586-021-04174-y>.
- Ollier, L., Metz, F., Nuñez-Jimenez, A., Späth, L., **Lilliestam, J.** (2022): Policy change in the European 2030 climate and energy package: do domestic strategy adaptations precede EU policy change? in: *Policy Sciences* 55, pp. 161-184. <https://doi.org/10.1007/s11077-022-09447-5>. (Open access)
- Krupnik, S., Wagner, A., Koretskaya, O., Rudek, T., Wade, R., Misik, M., **Lilliestam, J.**, von Wirth, T. et al. (2022): Beyond technology: A research agenda for social sciences and humanities research on renewable energy, in: *Energy Research & Social Science* 89, p. 102536. <https://doi.org/10.1016/j.erss.2022.102536>.
- Resch, G., Schöniger, F., Kleinschmitt, C., Franke, K., Thonig, R., **Lilliestam, J.** (2022): Deep decarbonization of the European power sector calls for dispatchable CSP, in: AIP Proceedings 2445, p. 050006. <https://doi.org/10.1063/5.0086710>. (Open access)
- Thonig, R., Gilmanova, A., Zhan, J., **Lilliestam, J.** (2022): Chinese CSP for the world?, in: AIP Proceedings 2445, p. 050007. <https://doi.org/10.1063/5.0085752> (Open access)
- Gamarra, A., Lechón, Y., Escribano, G., **Lilliestam, J.**, Lázaro, L., Caldés, N. (2022): Measuring dependence and governance in the value chain of energy investments: Natural gas versus solar power plants in Mexico, in: *Environmental Impact Assessment Review* 93, p. 106708. <https://doi.org/10.1016/j.eiar.2021.106708>.
- McKenna, R., Pfenninger, S., Heinrichs, H., Schmidt, J., Staffell, I., Bauer, C., Gruber, K., Hahmann, A., Jansen, M., Klingler, M., Landwehr, N., Guo Larsén, X., **Lilliestam, J.**, Pickering, B., Robinius, M., Tröndle, T., Turkovska, O., Wehrle, S., Weinand, J., Wohland, J. (2022): High-resolution large-scale onshore wind energy assessments: a review of potential definitions, methodologies and future research needs, in: *Renewable Energy* 182, pp. 659-684. <https://doi.org/10.1016/j.renene.2021.10.027>. (Open access)
- Süsser, D., Gaschnig, H., Ceglaz, A., Stavrakas, V., Flamos, A., **Lilliestam, J.** (2022): Better suited or just more complex? On the fit between user needs and modeller-driven improvements of energy system models, in: *Energy* 239, p. 121909. <https://doi.org/10.1016/j.energy.2021.121909>.

- Süsser, D., Ceglaz, A., Stavrakas, V., **Lilliestam, J.** (2021): COVID-19 vs. stakeholder engagement: the impact of the first wave of the pandemic on stakeholder involvement in European energy research projects, in: *Open Research Europe* 1 (57). <https://doi.org/10.12688/openreseurope.13683.3>. (Open access)
- Lilliestam, J.**, Patt, A., Bersalli, G. (2021): The effect of carbon pricing on the technological change necessary for full energy decarbonisation: a review of empirical ex-post evidence, in: *WIREs Climate Change* 12 (Jan./Feb.), p. e681. <https://www.doi.org/10.1002/wcc.681>. (Open access)
- Gilmanova, A., Wang, Z., Gosens, J., **Lilliestam, J.** (2021): Building an internationally competitive concentrating solar power industry in China: lessons from wind power and photovoltaics, in: *Energy Sources, Part B* 16 (6) pp. 515-541. <https://doi.org/10.1080/15567249.2021.1931563>.
- Süsser, D., Ceglaz, A., Gaschnig, H., Stavrakas, V., Flamos, A., Giannakidis, G., **Lilliestam, J.** (2021): Model-based policymaking or policy-based modelling? How energy models and energy policy interact, in: *Energy Research & Social Science* 75, p. 101984. <https://doi.org/10.1016/j.erss.2021.101984>. (Open access)
- Gosens, J., Gilmanova, A., **Lilliestam, J.** (2021): Windows of opportunity for catching up in formative clean-tech sectors and the rise of China in concentrated solar power, in: *Environmental Innovation and Societal Transformation* 39, pp. 86-106. <https://doi.org/10.1016/j.eist.2021.03.005>.
- Quitow, R., Bersalli, G., Eicke, L., **Lilliestam, J.**, Lira, F., Marian, A., Thapar, S., Süsser, D., Weko, S., Williams, S., Xue, B. (2021): COVID-19 deepens the gulf between leaders and laggards in the global energy transition, in: *Energy Research & Social Science* 74, p. 101981. <https://doi.org/10.1016/j.erss.2021.101981>. (Open access)
- Melliger, M., **Lilliestam, J.** (2021): Effects of coordinating support policy changes on renewable power investor choices in Europe, in *Energy Policy* 148, p. 111993. <https://doi.org/10.1016/j.enpol.2020.111993>. (Open access)
- Lilliestam, J.**, Ollier, L., Labordena, M., Pfenninger, S., Thonig, R. (2021): The near- to mid-term outlook for CSP: mostly cloudy, chance of sun, in *Energy Sources, Part B: Economics, Planning, and Policy* 16 (1), pp. 23-41. <https://doi.org/10.1080/15567249.2020.1773580>. (Open access)
- Thonig, R., del Río, P., Kiefer, C., Lázaro Touza, L., Escribano, G., Lechón, Y., Späth, L., Wolf, I., **Lilliestam, J.** (2021): Does ideology influence the ambition level in climate and renewables policy? Insights from four European countries, in: *Energy Sources, Part B: Economics, Planning, and Policy* 16 (1), pp. 4-22. <http://dx.doi.org/10.1080/15567249.2020.1811806>. (Open access).
- Schöniger, F., Thonig, R., Resch, G., **Lilliestam, J.** (2021): Making the sun shine at night: comparing the cost of dispatchable concentrating solar power and photovoltaic with storage, in: *Energy Sources, Part B: Economics, Planning, and Policy* 16 (1), pp. 55-74. <https://doi.org/10.1080/15567249.2020.1843565>. (Open Access)
- Ollier, L., Melliger, M., **Lilliestam, J.** (2020): Friends or foes? Political synergy or competition between renewable energy and energy efficiency policy, in: *Energies* (13), p. 6339. <https://doi.org/10.3390/en13236339> (Open Access)
- Tröndle, T., **Lilliestam, J.**, Marelli, S., Pfenninger, S. (2020): Trade-offs between geographic scale, cost, and system design for fully renewable electricity in Europe, in: *Joule* 4, pp. 1929-1948. <https://doi.org/10.1016/j.joule.2020.07.018>. (Open access)

- Lilliestam, J.**, Melliger, M., Ollier, L., Schmidt, T., Steffen, B. (2020): Understanding and accounting for the effect of exchange rate fluctuations on global learning rates, in: *Nature Energy* 5, pp. 71-78. <https://doi.org/10.1038/s41560-019-0531-y>. (preprint: [https://publications.iass-potsdam.de/rest/items/item\\_6000159\\_3/component/file\\_6001201/content](https://publications.iass-potsdam.de/rest/items/item_6000159_3/component/file_6001201/content)).
- McKenna, R., Ryberg, S., Staffell, I., Hahmann, A., Schmidt, J., Heinrichs, H., Höltinger, S., **Lilliestam, J.**, Pfenninger, S., Robinius, M., Stolten, D., Tröndle, T., Wehrle, S., Weinand, J. (2020): On the socio-technical potential for onshore wind in Europe: a response to Enevoldsen et al. (2019), in: *Energy Policy* 145, p. 111693. <https://doi.org/10.1016/j.enpol.2020.111693>.
- Tröndle, T., Pfenninger, S., **Lilliestam, J.** (2019): Home-made or imported: on the possibility for renewable electricity autarky on all scales in Europe, in: *Energy Strategy Reviews* 26, p. 100388. <https://doi.org/10.1016/j.esr.2019.100388>. (Open access)
- Lilliestam, J.**, Ollier, L., Pfenninger, S. (2019): The Dragon awakens: is China saving or conquering concentrated solar power?, in: *AIP conference proceedings* 2126 (1), p. 130006. <https://doi.org/10.1063/1.5117648>. (Open access)
- Ellenbeck, S., **Lilliestam, J.** (2019): How modelers construct energy costs: discursive elements in Energy System and Integrated Assessment Models, in: *Energy Research & Social Science* 47, pp. 69-77. <https://doi.org/10.1016/j.erss.2018.08.021>. (Open access)
- Patt, A., van Vliet, O., **Lilliestam, J.**, Pfenninger, S. (2019): Will policies to promote energy efficiency help or hinder achieving a 1.5°C climate target? in: *Energy Efficiency* 12 (2), pp. 551-565. <https://doi.org/10.1007/s12053-018-9715-8>. Preprint: <https://mfr.osf.io/render?url=https%3A%2F%2Fosf.io%2Fz78vh%2Fdownload>.
- Patt, A., **Lilliestam, J.** (2018): The case against carbon prices, in *Joule* 2 (12), pp. 2494-2498. <https://doi.org/10.1016/j.joule.2018.11.018>. (Open access)
- Labordena, M., Neubauer, D., Folini, D., Patt, A., **Lilliestam, J.** (2018): Blue skies over China: the effect of pollution-control on solar power generation and revenues, in: *PLOS ONE* 13 (11), e0207028. <https://doi.org/10.1371/journal.pone.0207028>. (Open access)
- Lilliestam, J.**, Pitz-Paal, R. (2018): Concentrating solar power for less than USD 0.07 per kWh: finally the breakthrough?, in: *Renewable Energy Focus* 26, pp. 17-21. <https://doi.org/10.1016/j.ref.2018.06.002>. (Open access)
- Lilliestam, J.**, Barradi, T., Caldés, N., Gomez, M., Hanger, S., Kern, J., Komendantova, N., Mehos, M., Hong, W.M., Wang, Z., Patt, A. (2018): Policies to keep and expand the option of concentrating solar power for dispatchable renewable electricity, in: *Energy Policy* 116, pp.193-197. <https://doi.org/10.1016/j.enpol.2018.02.014>.
- Lilliestam, J.**, Labordena, M., Patt, A., Pfenninger, S. (2017): Empirically observed learning rates for concentrating solar power and their responses to regime change, in *Nature Energy* 2, p. 17094. <http://dx.doi.org/10.1038/nenergy.2017.94>.
- Aryandoust, A., **Lilliestam, J.** (2017): The potential and usefulness of demand response to provide electricity system services, in *Applied Energy* 204, pp. 749-766. <http://dx.doi.org/10.1016/j.apenergy.2017.07.034>.
- Labordena, M., Bazilian, M., Howells, M., Patt, A., **Lilliestam, J.** (2017): Impact of political and economic barriers for concentrating solar power in Sub-Saharan Africa, in *Energy Policy* 102, pp. 52-72. <https://doi.org/10.1016/j.enpol.2016.12.008>. (Open Access)

- Robledo-Abad, C., Althaus, H.J., Berndes, G., Bolwig, S., Corbera, E., Creutzig, F., Garcia-Ulloa, J., Geddes, A., Gregg, J., Haberl, H., Hanger, S., Harper, R.J., Hunsberger, Larsen, R.K., Lauk, C., Leitner, S., **Lilliestam, J.**, Lotze-Campen, H., Muys, B., Nordborg, M., Ölund, M., Orłowsky, B., Popp, A., Portugal-Pereira, J., Reinhard, J., Scheiffle, L., Smith, P. (2017): Bioenergy production and sustainable development: the science base for policymaking remains limited, in: *Global Change Biology Bioenergy* 9 (3), pp. 541-556. <http://dx.doi.org/10.1111/gcbb.12338>. (Open Access)
- Scolobig, A., **Lilliestam, J.** (2016): Comparing approaches for the integration of stakeholder perspectives in environmental decision making, in *Resources* 5 (4), 37. <http://dx.doi.org/10.3390/resources5040037>. (Open Access)
- Lilliestam, J.**, Ellenbeck, S., Karakosta, C., Caldés, N. (2016): Understanding the absence of renewable electricity imports to the European Union, in: *International Journal of Energy Sector Management* 10 (3), pp. 291-311. <http://dx.doi.org/10.1108/IJESM-10-2014-0002>.
- Frieden, D., Tuerk, A., Đukan, M., Ortner, A., **Lilliestam, J.** (2016). Sharing the gains from EU-Western Balkan renewable electricity cooperation, in: *Climate Policy* 16 (5), pp 606-621. <http://dx.doi.org/10.1080/14693062.2016.1155041>.
- Eid, C., Bollinger, A., Koirala, B., Scholten, D., Facchinetti, E., **Lilliestam, J.**, Hakvoort, R. (2016): Market integration of local energy systems: is local energy management compatible with European regulation for retail competition?, in: *Energy* 114, pp. 913-922. <http://dx.doi.org/10.1016/j.energy.2016.08.072>. (Open Access)
- Lilliestam, J.**, Hanger, S. (2016): Shades of green: centralisation, decentralisation and controversy among European renewable electricity visions, in: *Energy Research & Social Science* 17, pp. 20-29. <http://dx.doi.org/10.1016/j.erss.2016.03.011>.
- Schmidt, P., **Lilliestam, J.** (2015): Reducing or fostering acceptance? A critical reflection on the neutrality of cost-benefit analysis in European transmission planning, in: *Energy Research & Social Science* 10, pp. 114-122. <http://dx.doi.org/10.1016/j.erss.2015.07.003>.
- Labordena, M., **Lilliestam, J.** (2015): Cost and transmission requirements for reliable solar electricity from deserts in China and the United States, in: *Energy Procedia* 76, pp. 77-86. <http://dx.doi.org/10.1016/j.egypro.2015.07.850>. (Open Access)
- Lilliestam, J.**, Patt, A. (2015): Barriers, risks and policies for renewables in the Gulf, in *Energies* 8 (8), pp. 8263-8285. <http://dx.doi.org/10.3390/en8088263>. (Open Access)
- Lilliestam, J.**, Pfenninger, S., Gauché, P., Damerau, K., Wagner, F., Patt, A. (2014): On the limits to solar thermal power: a reply to Trainer, in: *Energy Policy* 75, pp. 424-425. <http://dx.doi.org/10.1016/j.enpol.2014.09.020>.
- Pfenninger, S., Gauché, P., **Lilliestam, J.**, Damerau, K., Wagner, F., Patt, A. (2014): The potential for concentrating solar power systems to provide baseload and dispatchable power, in: *Nature Climate Change* 4:8, pp. 689-692. <http://dx.doi.org/10.1038/nclimate2276>.
- Lilliestam, J.** (2014): Vulnerability to terrorist attacks in European electricity decarbonisation scenarios: comparing renewable electricity imports to gas imports, in: *Energy Policy* 66, pp. 234-248. <http://dx.doi.org/10.1016/j.enpol.2013.10.078>.
- Ellenbeck, S., Schmidt, P., Battaglini, A., **Lilliestam, J.** (2013): Der Strommarkt als soziale Institution: Eine erweiterte Perspektive auf die deutsche Diskussion um Kapazitäts-mechanismen, in: *Vierteljahreshefte zur Wirtschaftsforschung* 03.2013, pp. 171-182. (Open Access)
- Patt, A., Pfenninger, S., **Lilliestam, J.** (2013): Vulnerability of solar energy infrastructure and output to climate change, in: *Climatic Change* 121, pp. 93-102. <http://dx.doi.org/10.1007/s10584-013-0887-0>.

- Schmidt, P., **Lilliestam, J.**, Battaglini, A. (2013): Electricity pathways for Tunisia: comparing the viability and impacts of the nuclear and renewable options, in: *Current politics and economics of Africa*, vol. 5:4.
- Lilliestam, J.**, Bielecki, J., Patt, A. (2012): Comparing carbon capture and storage (CCS) with concentrating solar power (CSP): potentials, costs, risks, and barriers, in: *Energy Policy* 47, pp. 447-455. <http://dx.doi.org/10.1016/j.enpol.2012.05.020>.
- Lilliestam, J.**, Ellenbeck, S. (2012): Fostering interdependence to reduce political risks in a European-North African renewable electricity Supergrid, in: *The international journal on sustainable energy conversion and storage / Green* 2:2-3, pp. 105-109. <http://dx.doi.org/10.1515/green-2012-0003>.
- Lilliestam, J.**, Battaglini, A., Finlay, C., Fürstenwerth, D., Patt, A., Schellekens, G., Schmidt, P. (2012): An alternative to a global climate deal may be unfolding before our eyes, in: *Climate and Development* 4:1, pp. 1-4. <http://dx.doi.org/10.1080/17565529.2012.658273>. (Open Access)
- Patt, A., Komendantova, N., Battaglini, A., **Lilliestam, J.** (2011): Regional integration to support full renewable power deployment for Europe by 2050, in: *Environmental Politics* 20 (5), pp.727-742. <http://dx.doi.org/10.1080/09644016.2011.608537>.
- Lilliestam, J.**, Ellenbeck, S. (2011): Energy security and renewable electricity trade – will Desertec make Europe vulnerable to the “energy weapon”?, in: *Energy Policy* 39, pp. 3380-3391. <http://dx.doi.org/10.1016/j.enpol.2011.03.035>.
- Förster, H., **Lilliestam, J.** (2011): Modeling thermoelectric power generation in view of climate change: A reply, in: *Regional environmental change* 11, pp. 211-212. <http://dx.doi.org/10.1007/s10113-010-0117-5>.
- Williges, K., **Lilliestam, J.**, Patt, A. (2010): Making concentrated solar power competitive with coal: the costs of a European feed-in tariff, in: *Energy Policy* 38, pp. 3089-3097. <http://dx.doi.org/10.1016/j.enpol.2010.01.049>
- Förster, H., **Lilliestam, J.** (2010): Modeling thermoelectric power generation in view of climate change, in: *Regional environmental change* 10, pp. 327-338. <http://dx.doi.org/10.1007/s10113-009-0104-x>.
- Battaglini, A, **Lilliestam, J.**, Haas, A., Patt, A. (2009): Development of SuperSmart Grids for a more efficient utilisation of electricity from renewable sources, in: *Journal of cleaner production* 17 (10), pp. 911-918. <http://dx.doi.org/10.1016/j.jclepro.2009.02.006>.

## Open datasets

- Weko, S. Malhotra, P., Chaianong, A., Milioritsas, I., Bold, F., **Lilliestam, J.** (2026): *Climate Policy Atlas*, Version 1, January 2026. FAU Erlangen-Nürnberg, NFDI4Energy. <https://climatepolicyatlas.org>.
- Weko, S., Malhotra, P., Bold, F., Chaianong, A., Günkördü, D., Kurt, A., Milioritsas, I., **Lilliestam, J.** (2025): *Data on policy support for renewable electricity* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://doi.org/10.5281/zenodo.15477180>.
- Weko, S., Malhotra, P., Chaianong, A., Kurt, A., Günkördü, D., Milioritsas, I., Weiss, J., **Lilliestam, J.** (2025): *Data on policy support for electric vehicles* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://zenodo.org/records/15476330>.
- Chaianong, A., Malhotra, P., Milioritsas, I., Weko, S., **Lilliestam, J.** (2025): *Data on climate targets* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://zenodo.org/records/15476049>.
- Chaianong, A., Malhotra, P., Milioritsas, I., Weko, S., **Lilliestam, J.** (2025): *Data on renewable electricity targets* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://zenodo.org/records/15476149>.

- Chaianong, A., Milioritsas, I., Malhotra, P., Günkördü, D., Weiss, J., Weko, S., **Lilliestam, J.** (2025): *Data on landscape and environmental regulations for energy production and infrastructure* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://zenodo.org/records/15474054>.
- Bonilla, J., Thonig, R., Carballo, J., **Lilliestam, J.**, Alarcón-Padilla, D., Zarza, E. (2024): *CSP.data. Visualisation of the CSP.guru dataset*. Plataforma Solar de Almería, CIEMAT, Madrid. <https://cspdata.com/>.
- Thonig, R., **Lilliestam, J.** (2023): *CSP.guru*. Data version: July 2023. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. RIFS Potsdam. <https://zenodo.org/record/8191855>.
- Thonig, R., **Lilliestam, J.** (2023): *CSP.guru*. Data version: January 2023. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. RIFS Potsdam. <https://zenodo.org/record/7798946>.
- Thonig, R., **Lilliestam, J.** (2022): *CSP.guru*. Data version: July 2022. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. IASS Potsdam. <https://zenodo.org/record/7010643>.
- Lilliestam, J.**, Thonig, R., Gilmanova, A., Zang, C. (2021): *CSP.guru*. Data version: July 2021. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. IASS Potsdam. <http://doi.org/10.5281/zenodo.5094290>.
- Lilliestam, J.**, Thonig, R., Gilmanova, A., Zang, C. (2021): *CSP.guru*. Data version: January 2021. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. IASS Potsdam. <http://doi.org/10.5281/zenodo.4613099>.
- Thonig, R., **Lilliestam, J.**, Gilmanova, A., Zang, C. (2020): *CSP.guru*. Data version: November 2020. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. IASS Potsdam. <http://doi.org/10.5281/zenodo.4297966>.
- Thonig, R., **Lilliestam, J.**, Gilmanova, A., Zang, C. (2020): *CSP.guru*. Data version: January 2020. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. IASS Potsdam. <http://doi.org/10.5281/zenodo.3909229>.
- Lilliestam, J.**, Thonig, R. (2019): *CSP.guru*. Data version: January 2019. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. IASS Potsdam. <http://doi.org/10.5281/zenodo.3466625>.
- Hafner, S., **Lilliestam, J.** (2019): *The global renewable power support database*. Open dataset. Policy data on renewable power support schemes in all countries, 1990-2016. IASS Potsdam. <https://www.doi.org/10.5281/zenodo.3371375>.
- Lilliestam, J.**, Labordena, M., Ollier, L., Pfenninger, S. (2018): *CSP.guru*. Data version: May 2018. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. ETH Zürich. <http://doi.org/10.5281/zenodo.1342716>.
- Lilliestam, J.**, Labordena, M., Pfenninger, S. (2017): *CSP.guru*. Data version: August 2016. Open dataset. Project data for all concentrating solar power stations currently operational or under construction. ETH Zürich. <http://doi.org/10.5281/zenodo.1318152>.

## Books, book chapters, reports, non-peer-reviewed articles

- Niese, A., Ferenz, S., Auer, S., Engel, F., Finke, O., Forberg, J., Fuentes Grau, L., German, R., Hagenmeyer, V., Hoffart, F., Huber, J., Hülk, L., Karras, O., Kotthoff, F., Kuhlmann, L., Lehnhoff, S., **Lilliestam, J.**, Monti, A., Niemann, L., Oelen, A., Pan, Z., Richter, M., Rohde, P., Schäfer, M., Schmurr, P., Schwartz J.S., Seiwerth, C., Selzer, M., Speck, C., Stappel, M., Steinert, A., Süß, W., Vogel, B., Weidlich, A., Wein, A., Weinhardt, C., Werth, O. (2026): *NFDI4Energy – National Research Data Infrastructure for Interdisciplinary Energy System Research: Progress Report*, NFDI4Energy, University of Oldenburg, Oldenburg. <https://doi.org/10.5281/zenodo.18744051>
- Weko, S., Bersalli, G., Chaianong, A., Milioritsas, I., **Lilliestam, J.** (2026): *Showcase Climate and energy policy ontology*, Deliverable 6.4.6 NFDI4Energy, Sustainability Transition Policy Group, Friedrich-Alexander-Universität Erlangen-Nürnberg. <https://doi.org/10.5281/zenodo.18386068>
- Chaianong, A., Weko, S., Malhotra, P., Milioritsas, I., **Lilliestam, J.** (2026): *Showcase of extended target data and analysis*, Deliverable 6.4.5 NFDI4Energy, Sustainability Transition Policy Group, Friedrich-Alexander-Universität Erlangen-Nürnberg. <https://doi.org/10.5281/zenodo.18433560>
- Murphy, A., Sharpe, S., Geels, F., **Lilliestam, J.**, Patt, A. (2025): *First build, then break. A policy framework for accelerating zero-carbon transitions*, S-curve Economics, London. [Link](#).
- Lombardi, F., Süßner, D., Wiese, F., **Lilliestam, J.**, Pfenninger, S. (2025): Open models are not enough. Advancing energy system modelling towards practical usefulness, in: Erdbeer, M., Hagenmeyer, V., Stierstorfer, K. (Eds): *Modelling the energy transition: cultures, visions, narratives*, Palgrave Macmillan, London, pp. 173-195. [https://link.springer.com/chapter/10.1007/978-3-031-69031-0\\_9](https://link.springer.com/chapter/10.1007/978-3-031-69031-0_9) (Open Access)
- Sharpe, S., **Lilliestam, J.**, Worthington, B. (2025): *Carbon budgets are not enough – the case for transition milestones*, S-curve economics, London. [Link](#).
- Weko, S., Bersalli, G., Chaianong, A., Milioritsas, I., **Lilliestam, J.** (2025): *Draft Policy Ontology* (Version 1, February 2025). Sustainability Transition Policy Group, Friedrich-Alexander-Universität Erlangen-Nürnberg. <https://www.doi.org/10.5281/zenodo.15583093>.
- Weko, S., Malhotra, P., Bold, F., Chaianong, A., Günkördü, D., Kurt, A., Milioritsas, I., **Lilliestam, J.** (2025): *Data on policy support for renewable electricity and electric vehicles* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://doi.org/10.5281/zenodo.15477244>.
- Chaianong, A., Malhotra, P., Milioritsas, I., Weko, S., **Lilliestam, J.** (2025): *Data on climate and renewable electricity targets* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://doi.org/10.5281/zenodo.15476344>.
- Chaianong, A., Milioritsas, I., Malhotra, P., Günkördü, D., Weiss, J., Weko, S., **Lilliestam, J.** (2025): *Data on landscape and environmental regulations for energy production and infrastructure* (version 1, Feb. 2025). FAU Erlangen-Nürnberg, NFDI4Energy. <https://doi.org/10.5281/zenodo.15477076>.
- Davidson, H., Chaianong, A., Qussous, R., Milioritsas, I., **Lilliestam, J.**, Schäfer, M. (2025): *Integration of regulatory constraints from a policy database into the energy system modelling tool atlite*. Second annual conference NFDI4Energy, Karlsruhe. Doi: <https://doi.org/10.5281/zenodo.15016966>.
- Bersalli, G., Brien, L., Gottheit, D., **Lilliestam, J.** (2024): *Assessing zero-emissions energy transitions: A systemic view*, Bertelsmann Stiftung, Gütersloh. <https://doi.org/10.11586/2024113>.

- Bersalli, G., Schiller, C., Hellmann, T., Mussler, L., **Lilliestam, J.** (2024): *Meeting climate targets: how far have countries progressed in the transition to carbon-free energy for heating, road transport and electricity?* Policy Brief 1/2024, Bertelsmann Stiftung. <https://doi.org/10.11586/2024114>.
- Bersalli, G., Schiller, C., Hellmann, T., Mussler, L., **Lilliestam, J.** (2024): *Erfüllung der Klimaziele: Wie weit sind führende Länder beim Übergang zu kohlenstofffreier Energie für Heizung, Strassenverkehr und Stromversorgung?* Policy Brief 1/2024, Bertelsmann Stiftung. <https://doi.org/10.11586/2024114>.
- Bonilla, J., Thonig, R., Carballo, J., **Lilliestam, J.**, Alarcón-Padilla, D., Zarza, E. (2024): CSP Data: A Data Discovery Web Application of Commercial CSP Plants, in: *SolarPACES 2024 Conference Proceedings*, <https://doi.org/10.52825/solarpaces.v2i.811>.
- Thonig, R., Gilmanova, A., **Lilliestam, J.** (2024): Concentrating Solar Power, in: REN21 (Ed.): *Renewables 2024: Global Status Report – Energy Supply*. REN21, Paris.
- Tàbara, D., Mangalagiu, D., Frantal, B., Mey, F., Maier, R., **Lilliestam, J.**, Sarrica, M., Mandel, A., Lieu, J., Cottone, P., Veland, S., Martinez-Reyes, A. 2024 Transformative Emergence - Research challenges for enabling social-ecological tipping points toward regional sustainability transformations, in: Tàbara, J.D., Flamos, A., Mangalagiu, D. (Eds.): *Positive tipping points towards sustainability – understanding the conditions and strategies for fast decarbonization in regions*, Springer Nature, Cham, pp. 325-343. [https://doi.org/10.1007/978-3-031-50762-5\\_16](https://doi.org/10.1007/978-3-031-50762-5_16).
- Mangalagiu, D., Lieu, J., Martinez-Reyes, A., Sarrica, M., Biddau, F., **Lilliestam, J.**, Mandel, A., Mey, F., Veland, S. (2024): Exploring transition in coal- and carbon-intensive regions through an interdisciplinary lens, in: Tàbara, J.D., Flamos, A., Mangalagiu, D. (Eds.): *Positive tipping points towards sustainability – understanding the conditions and strategies for fast decarbonization in regions*, Springer Nature, Cham, pp. 127-149. [https://doi.org/10.1007/978-3-031-50762-5\\_7](https://doi.org/10.1007/978-3-031-50762-5_7).
- Chaianong, A., Hoffart, F., Kerker, N., **Lilliestam, J.**, Weko, S. (2024): Datasets and time series for energy policy research and modelling, in: *1<sup>st</sup> National Research Data Infrastructure Conference*, Leibniz-Informationszentrum TIB, Hannover, Germany. <https://zenodo.org/doi/10.5281/zenodo.10656916>.
- Alkemade, F., de Bruin, B., Pasimeni, F., Niamir, L., Wade, R., Mey, F., **Lilliestam, J.** Meier, R. (2023): Energy systems, in: Lenton, T., Armstrong MacKay, D., Loriani, S., Abrams, J., Lade, S., Donges, J., Buxton, J., Milkoreit, M., Powell, T., Smith, S., Zimm, C., Bailey, E., Laybourn, L., Ghadiali, A., Dyke, J. (Eds): *The global tipping points report*, University of Exeter, pp. 298-302.
- Wein, A., Reinkensmeier, J., Weidlich, A., **Lilliestam, J.**, Hagenmeyer, V., Richter, M., Lehnhoff, S. (2023). NFDI4Energy Task Area 4: FAIR Data for Energy System Research, in: Klein, M., Krupka, D., Winter, C., Wohlgemuth, V. (Eds.), *Lecture Notes in Informatics (LNI), Proceedings - Series of the Gesellschaft für Informatik*, Gesellschaft für Informatik, Berlin, pp. 939-946.
- Wein, A., Reinkensmeier, J., Weidlich, A., **Lilliestam, J.**, Hagenmeyer, V., Richter, M., Auer, S., Niese, A., Lehnhoff, S. (2023): NFDI4Energy Task Area 4: FAIR data for energy system research, in: *Informatik 2023 – Designing futures*, Gesellschaft für Informatik, Bonn. [https://doi.org/10.18420/inf2023\\_106](https://doi.org/10.18420/inf2023_106).
- Wein, A., Reinkensmeier, J., Weidlich, A., **Lilliestam, J.**, Hagenmeyer, V., Richter, M., Auer, S., Niese, A., Lehnhoff, S. (2023): FAIR data for energy system research, in: *1st Conference on Research Data Infrastructure (CoRDI)*, Karlsruhe. <https://doi.org/10.52825/cordi.v1i.364>.

- Speck, C., Jaquart, P., Weinhardt, C., **Lilliestam, J.**, Schäfer, M., Weidlich, A., Zilles, J., Kerker, N. (2023): Transparency and involvement of society and policy in a data sharing platform, in: *1st Conference on Research Data Infrastructure (CoRDI)*, Karlsruhe. <https://doi.org/10.52825/cordi.v1i.327>.
- Schäfer, M., Qussous, R., Hülk, L., **Lilliestam, J.**, Weidlich, A. (2023): NFDI4Energy case-study: comparative analysis and visualisation of long-term energy system scenarios, in: *1st Conference on Research Data Infrastructure (CoRDI)*, Karlsruhe. <https://doi.org/10.52825/cordi.v1i.294>.
- Quitow, R., Bersalli, G., **Lilliestam, J.**, Prontera, A. (2023): Green recovery: catalyst for an enhanced role of the EU in climate and energy policy?, in: Rayner, T., M., Szulecki, K., Jordan, A., Oberthür, S. (Eds.): *Handbook of EU climate policy*, Routledge, pp. 351-366. Open access: <https://www.elgaronline.com/edcollbook-oa/book/9781789906981/9781789906981.xml>.
- Mangalagiu, D., Mey, F., **Lilliestam, J.**, et al. (2023): *Full Project Knowledge Integration Report with Results, Procedures and Recommendations*. Deliverable 7.2, TIPPING+ project, Global Climate Forum, Berlin.
- Schöniger, F., Resch, G., Kleinschmitt, C., Franke, K., Thonig, R., **Lilliestam, J.** (2022): The need for dispatchable RES: a closer look at the future role of CSP in Europe, in: Uyur, T., & Javani, N. (eds.): *Renewable energy based solutions*, Springer Nature, New York, pp. 219-239.
- Mey, F., **Lilliestam, J.** (2022): *Contribution to the Tipping Plus project's integration framework from a policy and governance perspective*. Deliverable 3.3, TIPPING+ project, IASS, Potsdam.
- Michas, S., Kleanthis, N., Stavrakas, V., Schibline, A., Ceglarz, A., Flamos, A., Süsser, D., **Lilliestam, J.** (2022), et al., *Model application in the case studies: challenges and lessons learnt*, Deliverable 7.2, SENTINEL project, University of Piraeus, Piraeus.
- Mey, F., **Lilliestam, J.** (2022): *Empirical observations of tipping dynamics in a coal phase-out region in Germany: the cases of Essen and Duisburg*. Deliverable 3.2, TIPPING+ project, Institute for Advanced Sustainability Studies (IASS), Potsdam.
- Mey, F., **Lilliestam, J.** (2022): Tipping points in transitions of socio-economic systems. Book chapter in: Velez Cuaratas, G., Romero-Goyeneche, O. (eds.): *Tipping metrics*. University of Antioquia, Medellín, pp. 125-158.
- Süsser, D., Pickering, B., Chatterjee, S., Oreggioni, G., Stavrakas, V., **Lilliestam, J.** (2021): *Integration of socio-technological transition constraints into energy demand and system models*. Deliverable 2.5, Sustainable Energy Transitions Laboratory (SENTINEL) project, Institute for Advanced Sustainability Studies (IASS), Potsdam. Doi: <https://doi.org/10.48481/iass.2021.030>.
- Süsser, D., al Rakouki, H., **Lilliestam, J.** (2021): *The QTIDIAN modelling toolbox – quantification of social drivers and constraints of the diffusion of energy technologies*. Deliverable 2.3. Sustainable Energy Transitions Laboratory (SENTINEL) project, Institute for Advanced Sustainability Studies (IASS), Potsdam. <https://doi.org/10.48481/iass.2021.015>. Data available at: <http://doi.org/10.5281/zenodo.5834010>.
- Sierro, F., Ejderyan, O., Blumer, Y., **Lilliestam, J.** (2021): Erfolgreiche partizipative Projektentwicklung findet auf unterschiedlichen Ebenen der Zusammenarbeit statt, in: *Wasser, Energie, Luft* 113 (2), pp. 106-109.
- Stavrakas, V., Ceglarz, A., Kleanthis, N., Giannakidis, G., Schibline, A., Süsser, D., **Lilliestam, J.**, Flamos, A. (2021). *Case specification and scheduling*. Deliverable 7.1. Sustainable Energy Transitions Laboratory (SENTINEL) project, University of Piraeus Research Center (UPRC), Piraeus. <https://doi.org/10.5281/zenodo.4699518>.

- Escribano, G., Lázaro, L., Bersalli, G., **Lilliestam, J.** (2021): *MUSTEC Policy Brief: Geopolitics and energy security of CSP deployment for domestic use and intra-European trade in the time of COVID-19*. MUSTEC Policy Brief 4, Real Instituto Elcano, Institute for Advanced Sustainability Studies (IASS), Madrid, Potsdam.
- Madrid-López, C., Süsser, D., Stavrakas, V., **Lilliestam, J.**, Flamos, A., Talens-Peiró, L., Martin, N. (2021): *Model development to match ENVIRO, QTIDIAN and ATOM to user needs*. Deliverable 2.4, Sustainable Energy Transitions Laboratory project (SENTINEL), Autonomous University of Barcelona, Barcelona. doi: <https://zenodo.org/record/4912687>.
- Tröndle, T., Pfenninger, S., **Lilliestam, J.** (2021): *The possibility for renewable electricity autarky in Europe*, in: Kemper, T., Melchiorri, M., Carneiro Freire, S., Ehrlich, D. (Eds.): *Atlas of the human planet 2020 – open geoinformation for research, policy, and action*, EUR20516EN, European Commission DG Joint Research Centre, Luxembourg, pp. 99-100. <https://doi.org/10.2760/16432>.
- Gaschnig, H., Süsser, D., Ceglaz, A., Stavrakas, V., Giannakidis, G., Flamos, A., Sander, A., **Lilliestam, J.** (2020): *User needs for an energy system modeling platform for the European energy transition*. Deliverable 1.2, Sustainable Energy Transitions Laboratory project (SENTINEL), Institute for Advanced Sustainability Studies (IASS), Potsdam. <https://doi.org/10.48481/iass.2020.059>.
- von Wirth, T., Loorbach, D., Wagner, A., Koretskaya, O., Wade, R., Krupnik, S., Rudek, T., Foulds, C., Adem, C., Akerboom, S., Batel, S., Caspar Rabitz, F., Certoma, C., Cherp, A., Chodkowska-Miszczuk, J., Denac, M., Dokupilová, D., Dotterud Leiren, M., Frolova Ignatieva, M., Gabaldón-Estevan, D., Horta, A., Karnøe, P., **Lilliestam, J.**, Markard, J., Mišik, M., Mühlemeier, S., Nemoz, S., Nilsson, M., Osička, J., Papamikrouli, L., Pellizzioni, L., Sareen, S., Sarrica, M., Seyfang, G., Smith Stegen, K., Sovacool, B., Telesiene, A., and Zapletalova, V. (2020): *100 social sciences and humanities priority research questions for renewable energy in Horizon Europe*. Energy-SHIFTS, Cambridge.
- Mey, F., **Lilliestam, J.** (2020): *Policy and governance perspectives on tipping points*, Deliverable 3.1 TIPPING+ project, Institute for Advanced Sustainability Studies (IASS), Potsdam.
- Süsser, D., Ceglaz, A., Gaschnig, H., Stavrakas, V., Giannakidis, G., Flamos, A., Sander, A., **Lilliestam, J.** (2020): *The use of energy modelling for policymaking in the EU*, Deliverable 1.1 SENTINEL project, Institute for Advanced Sustainability Studies (IASS), Potsdam. <https://doi.org/10.48481/iass.2020.058>.
- Süsser, D., Ceglaz, A., Gaschnig, H., Stavrakas, V., Giannakidis, G., Flamos, A., Sander, A., **Lilliestam, J.** (2020): *Models for the European energy transition: your questions, your needs*. Workshop synthesis report, SENTINEL project, Institute for Advanced Sustainability Studies (IASS), Potsdam
- Lázaro, L., Escribano, G., Bersalli, G., **Lilliestam, J.** (2020): *Geopolitics and energy security of CSP deployment for domestic use and intra-European trade*. Deliverable 9.2, MUSTEC project. Elcano Royal Institute and Institute for Advanced Sustainability Studies, Madrid and Potsdam.
- Resch, G., Schöniger, F., Kleinschmitt, C., Franke, K., Sensfuss, F., Thonig, R., **Lilliestam, J.** (2020): *Database: Market uptake of concentrating solar power in Europe: model-based analysis of drivers and policy trade-offs*. Deliverable 8.3, MUSTEC project, Technical University Vienna, Vienna.
- Resch, G., Schöniger, F., Kleinschmitt, C., Franke, K., Sensfuss, F., Thonig, R., **Lilliestam, J.** (2020): *Market uptake of concentrating solar power in Europe: model-based analysis of drivers and policy trade-offs*. Deliverable 8.2, MUSTEC project, Technical University Vienna, Vienna.

- Caldés, N., Lechón, Y., Rodríguez, I., del Río, P., Kiefer, C., **Lilliestam, J.** (2020): *Obstacles for the CSP cooperation mechanisms: lessons learned from the past*. MUSTEC working paper, MUSTEC project, CIEMAT, Madrid.
- Martin, N., Madrid López, C., Talens Peiró, L., Gaschnig, H., Süsser, D., **Lilliestam, J.** (2020): *Observed trends and modelling paradigms on the social and environmental aspects of the energy transition*. Deliverable 2.1 SENTINEL project, Autonomous University of Barcelona, Barcelona. <https://doi.org/10.5281/zenodo.4917183>.
- Schöniger, F., Resch, G., Kleinschmitt, C., Franke, K., Sensfuss, F., **Lilliestam, J.**, Thonig, R. (2020): *Pivotal decisions and key factors for robust CSP strategies*. Deliverable 7.4 MUSTEC project. TU Wien, Vienna.
- Jing, Z., Wang, Z., **Lilliestam, J.**, Gilmanova, A. (2020): *Strategic positioning of solar thermal power generation (国家太阳能光热产业技术创新战略联盟共性技术开放课题《太阳能热发电的战略定位》)*, China Solar Thermal Alliance, Beijing. (confidential report for the Chinese government).
- Tröndle, T., Süsser, D., **Lilliestam, J.** (2019): *Ohne Windenergie keine Energiewende*, IASS Discussion paper, Institut für transformative Nachhaltigkeitsforschung (IASS), Potsdam. [www.doi.org/10.2312/iass.2019.052](http://www.doi.org/10.2312/iass.2019.052).
- Lilliestam, J.**, Ollier, L., Thonig, R., Lechón, Y., del Río, P., Kiefer, C., Escribano, G., Lázaro Touza, L. (2019): *Updated policy pathways for the energy transition in Europe and selected European countries*. Deliverable 7.3 MUSTEC project, Institute for Advanced Sustainability Studies (IASS), Potsdam.
- Renn, O., Becker, S., Gaschnig, H., Götting, K., **Lilliestam, J.**, Schäuble, D., Setton, D. (2019): *Carbon pricing for a socially just energy transition*, IASS Policy Brief, Institute for Advanced Sustainability Studies (IASS), Potsdam. [www.doi.org/10.2312/iass.2019.058](http://www.doi.org/10.2312/iass.2019.058).
- Renn, O., Becker, S., Gaschnig, H., Götting, K., **Lilliestam, J.**, Schäuble, D., Setton, D. (2019): *CO<sub>2</sub>-Bepreisung für eine sozial gerechte Energiewende*, IASS Policy Brief, Institut für transformative Nachhaltigkeitsforschung (IASS), Potsdam. <https://doi.org/10.2312/iass.2019.028>.
- Caldés, N., Escribano, G., Lázaro-Touza, L., Lechón, Y., Kiefer, C., del Río, P., Thonig, R., **Lilliestam, J.** (2019): *Policy pathways for Spain's energy transition*, Elcano Royal Institute, Madrid.
- Lilliestam, J.**, Thonig, R., Späth, L., Caldés, N., Lechón, Y., del Río, P., Kiefer, C., Escribano, G., Lázaro Touza, L. (2019): *Policy pathways for the energy transition in Europe and selected European countries*. Deliverable 7.2, MUSTEC project, Deliverable 1, SCCER JA IDEA project, ETH Zürich, Zürich.
- Lilliestam, J.** (2018): *Whither CSP? Taking stock of a decade of concentrating solar power expansion – costs, technology performance, and industry outlook*. Deliverable 4.2, MUSTEC project, ETH Zürich, Zürich.
- Lilliestam, J.**, Thonig, R., Boie, I., Caldés, N., Geipel, J., Ragwitz, M., Resch, G., Totschnig, G. (2018): *Mapping the policy variables affecting the potential role of concentrating solar power in the European Union*. Deliverable 7.1, MUSTEC project, ETH Zürich, Zürich.
- Caldés, N., de la Rúa, C., Lechón, Y., Rodríguez, I., Trieb, F., Frieden, D., Tuerk, A., Frühmann, C., Ortner, A., Welisch, M., Resch, G., Totschnig, G., Veum, K., Uslu, A., Kraan, C., Menichetti, E., Elgharras, A., Karakosta, C., Marinakis, V., Papapostolou, A., Beneking, A., Ellenbeck, S., **Lilliestam, J.**, Pasicko, R., Kordic, Z. (2015): *BETTER summary report*, BETTER project, CIEMAT, Madrid.

- Veum, K., Uslu, A., Kraan, C., Caldes, N., de la Rúa, C., Trieb, F., Frieden, D., Tuerk, A., Frühmann, C., Karakosta, C., Menichetti, E., Beneking, A., Ellenbeck, S., **Lilliestam, J.**, Ortner, A., Welisch, M., Resch, G., Totschnig, G. (2015): *BETTER Roadmap*, BETTER project, Energy Centre of the Netherlands (ECN), Petten.
- Trieb, F., Hess, D., Kern, J., Fichter, T., Moser, M., Pfenning, U., Caldez, N., de la Rúa, C., Türk, A., Frieden, D., el Gharras, A., Cottret, N., Beneking, A., Ellenbeck, S., **Lilliestam, J.** (2015): *Bringing Europe and third countries closer together through renewable energies: North Africa case study*, BETTER project, German Aerospace Centre (DLR), Stuttgart.
- Frieden, D., Tuerk, A., Dukan, M., Ortner, A., **Lilliestam, J.** (2015): *Transnational renewable electricity cooperation: What's in it for the host country?* Conference paper for "The 2020 strategy experience: lessons for regional cooperation, EU governance and investment", German Institute for Economic Research (DIW), Berlin, Germany, 17 June 2015.
- Blumer, Y., **Lilliestam, J.**, Moser, C., Seidl, R. (2014): Eine Frage der Perspektive: Energiesicherheit in der Debatte um die Schweizer Energiezukunft, in: *Bulletin Fachzeitschrift von Electrosuisse und VSE*, issue 10 2014, pp. 9-12 ([http://www.bulletin-online.ch/uploads/media/09-12\\_1410\\_blumer.pdf](http://www.bulletin-online.ch/uploads/media/09-12_1410_blumer.pdf)).
- Lilliestam, J.**, Blumer, Y., Geddes, A., Labordena, M., Späth, L., van Vliet, O. (2014): More than costs: on the fit between solar and renewable electricity policy motivations and energy system models, in: Bailey, S. (Ed.): *Solar Power: Technologies, Environmental Impacts and Future Prospects*, Nova Science Publishers, Hauppauge, pp. 23-56.
- Caldés, N., Rodriguez, I., de la Rúa, C., López-Dóriga, I., **Lilliestam, J.** (2013): *Indicators and methodologies to assess key issues for the implementation of the cooperation mechanisms*, Deliverable 2.5 BETTER project.
- Lilliestam, J.** (2013): *Energy security and renewable electricity imports: the case of a Supergrid connecting Europe, North Africa and the Middle East*. Doctoral dissertation, Central European University, Budapest.
- Ellenbeck, S., **Lilliestam, J.**, Battaglini, A., Cottret, N., El Gharras, A., Abaach, H. (2013): *Energy Policy, Targets, Present Discussions and Barriers in RE deployment in Morocco, Algeria, Tunisia, Libya and Egypt*, Deliverable 3.1 BETTER project.
- Schmidt, P., Battaglini, A., **Lilliestam, J.** (2013): *Climate services for the renewable energy sector*, Deliverable 7.4 CLIMRUN project (confidential).
- Lilliestam, J.**, Patt, A. (2013): *Energy security in scenarios for Europe's future electricity supply*, Smart Energy for Europe Platform (SEFEP), Berlin.
- Patt, A., Komendantova, N., Battaglini, A., **Lilliestam, J.** (2012): Regional integration to support full renewable power deployment for Europe by 2050, in: Vanderheiden, S. (Ed.): *The politics of energy: challenges for a sustainable future*, Taylor and Francis, London, pp. 121-136.
- Ellenbeck, S., **Lilliestam, J.**, Battaglini, A. (2012): *Parameters for implementation of the 4th cooperation mechanism for imports of renewable electricity to the EU from third countries*. Deliverable 2.4 BETTER project.
- Schmidt, P., **Lilliestam, J.**, Fürstenwerth, D., Battaglini, A. (2012): Electricity for growth and jobs in Tunisia: exploring the nuclear and renewable electricity options, in: Pusatieri, M., Cannamela, J. (Eds.): *Tunisia: Economic, political and social issues*, Nova Science Publishers, Hauppauge, pp.31-62.
- Lilliestam, J.**, Patt, A. (2012): *Conceptualising energy security in the European context: A policy-perspective bottom-up approach to the cases of the EU, the UK and Sweden*. SEFEP Working Paper 2012-4, Smart Energy for Europe Platform (SEFEP), Berlin.

- Battaglini, A., **Lilliestam, J.** (2011): *Zur Governance des Übertragungsnetzes*, Schriften zur Ökologie, Band 16, Heinrich-Böll-Stiftung, Berlin.
- Schellekens, G., Battaglini, A., Fürstenwerth, D., **Lilliestam, J.**, Patt, A., Schmidt, P. (2011): *Moving towards 100% renewable electricity in Europe and North Africa by 2050*, PriceWaterhouseCoopers, London.
- Battaglini, A. & **Lilliestam, J.** (2010): *On transmission grid governance*, Heinrich Böll Foundation, Berlin.
- Reid, G., **Lilliestam, J.**, Battaglini, A., Mitchell, C., Patt, A., Schellekens, G.: *A Global Renewables Investment Plan*, Conference paper for The Delhi international renewable energy conference (DIREC), New Delhi, India, 26-29 October 2010.
- Schellekens, G., Battaglini, A., **Lilliestam, J.**, McDonnell, J., Patt, A. (2010): *100% renewable electricity - A roadmap to 2050 for Europe and North Africa*, PriceWaterhouseCoopers, London.
- Battaglini, A. & **Lilliestam, J.** (2010): Das SuperSmart Grid - die Möglichkeit für 100 Prozent Erneuerbare Energie, in: Stiftung Brandenburger Tor (Ed.): *Energie gleich Arbeit. Nachdenken über unseren Umgang mit Energie*, Stiftung Brandenburger Tor, Berlin.
- Patt, A., Pfenninger, S., **Lilliestam, J.** (2010): *Vulnerability of solar energy infrastructure and output to extreme events: climate change implications*, Conference paper for "Vulnerability of energy systems to climate change and extreme events", ICTP/IAEA, Trieste, Italy, 22 April 2010.
- Held, A., Strepp, R., Patt, A., Pfenninger, S., **Lilliestam, J.** (2010): *Report including literature review on impact of global warming on supply and demand of energy in EU*. Deliverable D8.1, RESPONSES FP7 project, Fraunhofer Institute for Systems and Innovation Research (ISI), International Institute for Applied Systems Analysis (IIASA), Karlsruhe, Laxenburg.
- Battaglini, A., **Lilliestam, J.**, Knies, G. (2010): SuperSmart Grid – paving the way for a completely renewable electricity system, in: Schellnhuber, H-J. et al. (Ed.): *Global sustainability – A Nobel cause*, Cambridge University Press, Cambridge, pp. 289-305.
- Battaglini, A., **Lilliestam, J.** (2008): A SuperSmart Grid for climate and energy security in Europe and beyond, in: Battaglini, A., Ruiz de Elvira, A., Welp, M. (Eds.): *Global investments for climate and energy security – a cross-sector perspective*, European Climate Forum, Potsdam, pp. 33-35.
- Patt, A., Battaglini, A., Komendantova, N., **Lilliestam, J.** (2008): *Linking North Africa's renewable energy resources to Europe: Policy challenges*, Background paper for *Linking the MENA region's renewable resources to Europe: scientific workshop to advance policy-relevant knowledge*, International Institute for Applied Systems Analysis (IIASA), Laxenburg.
- Battaglini, A., **Lilliestam, J.**, Bals, C., Haas, A. (2008): *The SuperSmart Grid*, Germanwatch, Bonn. Working paper for the Tällberg forum 2008.
- Jochem, E., Jaeger, C., Battaglini, A., Bradke, H., Cremer, C., Eichhammer, W., Förster, H., Haas, A., Henning, E., Idrissova, F., Kasper, B., Köhler, J., Köwener, D., Krause, J., Lass, W., **Lilliestam, J.**, Mannsbart, W., Müller, M., Meissner, F., Pflüger, B., Radgen, P., Ragwitz, M., Rauschen, M., Reitze, F., Riffeser, L., Saure, K., Schade, W., Sensfuss, F., Toro, F., Walz, R., Wietschel, M. (2008): *Investitionen für ein klimafreundliches Deutschland*, Commissioned by the German Federal Ministry for the Environment (BMU), Potsdam-Institut für Klimafolgenforschung, Fraunhofer-Institute für System- und Innovationsforschung, Potsdam, Karlsruhe.
- Lilliestam, J.** (2007): *The creation of the pan-Nordic electricity market*, Master thesis, Freie Universität Berlin, Potsdam-Institut für Klimafolgenforschung, Berlin, Potsdam.

**Lilliestam, J.** (2005): *Vindkraftsutbyggnaden i Sverige och Tyskland 1991-2004. En jämförelse*, Master Thesis, Göteborgs universitet, Göteborg.

## EXTERNALLY FUNDED RESEARCH PROJECTS

I have lead-authored or contributed WPs to **19 successful competitive research project proposals**, all of which were successfully finished or are currently ongoing. In total, these projects have generated **€6.0 million** for my institutions.

### Ongoing third-party funded research projects

**Jan. 25-Dec. 27** **Co-author** of the DFG project „Kritische Elemente für die Energie- und Klimawende - lokale Nachhaltigkeit und globale Entwicklung von Georessourcen“, Deutsches Komitee für Nachhaltigkeitsforschung (DKN). Lead: Almut Schilling-Vacaflor, Anette Regelous (FAU). Group funding, no partner-specific funds.

**Oct. 24-Sept. 27** **Work package leader** of *WieTrans* (“*Wissensintegration in der Energiesystemanalyse zur diskursiv-reflexiven Bewertung von Transformationspfaden unter verschiedenen gesellschaftlichen Perspektiven*”). Funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK). FAU budget €141,879. Total budget €975,129. Project coordinator: Bert Droste-Franke, Institut für qualifizierende Innovationsforschung und -beratung IQIB.

**Mar.23-Feb.28** **Work package leader** of *NDFI4Energy* (German national research data infrastructure for energy). Funded by the German Research Foundation DFG. FAU budget €1,203,686 Total project budget €13,266,742. Project coordinator: Astrid Niesse (University of Oldenburg).

### Finished research projects

**Feb.-Jun. 25** **Co-author** of the World Bank project Coalition for Capacity on Climate Action – Leveraging Climate Capacities for Finance Ministers. Lead: Simon Sharpe, S-Curve Economics. Budget €7,700.

**Mar.23-Feb24** **Principal investigator** of *Measuring progress in the energy transition from a systemic change perspective*. Funded by Bertelsmann Stiftung. Total and RIFS budget: €70,534. (Formal involvement ended in August 2023 with move to FAU)

**Mar.23-Sep.25** **Co-author** of *BePart* (Bewertung von Partizipation in Energieprojekten). Accepted for funding by the German Federal Ministry for Economic Affairs and Climate Action (BMWK). RIFS budget €465,159. Total project budget €701,981. Project coordinator: Franziska Mey (RIFS). (Involvement ended in August 2023 with move to FAU)

**May 20-Oct.23** **Work package leader** of *TIPPING+* (*Enabling positive tipping points towards clean-energy transitions in coal and carbon intensive regions*). Funded by the European Commission (Horizon 2020), contract 884565. RIFS/IASS budget €245,500. Total project budget €2,996,189. Project coordinator: David Tabara, Global Climate Forum.

**Aug.17-Jan.23** **Principal investigator** of *TRIPOD* (*The transition to a renewable electricity system and its interactions with other policy aims*). Funded by the European Research Council, contract 715132. ETHZ/IASS/RIFS budget €1,499,940.

**Jun.19-Nov. 22** **Work package leader** of *SENTINEL* (*The Sustainable Energy Transitions Laboratory*). Funded by the European Commission (Horizon 2020), contract 837089. IASS budget €421,875. Total project budget €4,898,340. Project coordinator: Laura Booth, ETH Zürich.

- Jan.20-Nov.21 Principal investigator** of OpenCSP (*Open data for commercial CSP projects*). Funded by SolarPACES. IASS budget: €57,682 Total budget €98,932 (with Chinese Academy of Science (China), National Renewable Energy Laboratory (USA)).
- Oct.17-Mar.21 Work package leader** of MUSTEC (*Market uptake of solar thermal electricity in Europe through cooperation*). Funded by the European Commission (Horizon 2020), contract 764626. IASS budget: €262,875. Total project budget €2,405,706. Project coordinator: Natalia Caldes, CIEMAT.
- Jan. 17-Dec. 21 Work package leader**, Policy scenarios for hydropower in Switzerland. WP4.3 of SCCER –SoE (*Swiss Competence Centre for Energy Research – Supply of Electricity*). Funded by the Federal Swiss Office of Energy. ETHZ budget CHF 240,000. Total budget CHF 4,000,000. (Involvement ended with move to IASS in April 2019, lead passed on to Anthony Patt)
- Oct. 13-Oct. 16 Co-author** of INSPIRE GRID (*Improved and enhanced stakeholder participation in reinforcement of the electricity grid*). Funded by the European Commission (Framework programme 7), contract 608472. ETHZ Budget €257,011; PIK (for which I wrote the WP proposal): €439,724. Total project budget: € 2.6 million.
- May 12-Apr. 15 Work package leader** of BETTER (*Bringing Europe and third countries closer together through renewable energies*). Carried out at Potsdam Institute for Climate Impact Research (PIK). Funded by the European Commission, Intelligent Energy Europe, contract IEE/11/845/SI2.616378. PIK budget: €159,800. Total project budget: €2,002,389. (Ended with move to ETH in December 2013). Project coordinator: Natalia Caldes, CIEMAT.
- Jan. 11-Mar. 13 First author** of the *Security of electricity supply project*. Carried out at PIK, International Institute for Applied Systems Analysis (IIASA). Funded by Smart energy for Europe platform (SEFEP). PIK budget: €54,700, IIASA budget €39,300.
- Jan.-Dec. 11 Co-author** of the project *100% renewable electricity – Analysis of recent European policies’ consistency with 2050 decarbonization* (follow-up on the Roadmap study). Carried out at PIK & IIASA. Funded by Smart energy for Europe platform (SEFEP). PIK budget: €43,000.
- Aug.-Nov. 10 Co-author** of *A global renewable energy investment plan (GRIP)*. Carried out at PIK. Funded by the German federal ministry for the environment. PIK budget: €50,000.
- Jan.-Dec. 10 Co-author** of *Roadmap for 100% renewable electricity in Europe and North Africa*. Carried out at PIK & IIASA. Funded by the European climate foundation (ECF). PIK & IIASA budget: €198,701.
- Sept. 09-Dec. 10 Co-author** of the *SuperSmart Grid* project. Funded by the European climate foundation (ECF). PIK budget: €50,000.
- Nov. 09 Organiser** of *Linking the MENA region’s renewable resources to Europe: scientific workshop to advance policy-relevant knowledge*. Carried out at PIK. Funded by European Climate Foundation. Total budget: €49,880.
- Sept. 08 Co-organiser** *German-Italian cooperation for the development of renewable energies in the Mediterranean*. Carried out at PIK. Funded by the Italian Embassy in Germany. PIK budget: €50,000.

## TEACHING

- April-Jul. 25** Friedrich Alexander University Erlangen-Nürnberg, *International Politics: Global Sustainability* (12 weeks x 2 hours + exercises, 5 ECTS). Bachelor programmes *Sozialökonomik* and *Wirtschaftswissenschaften* (in German). With Almut Schilling-Vacaflor
- April-Jul. 25** Friedrich Alexander University Erlangen-Nürnberg, *International Politics* (12 weeks x 2 hours + exercises, 5 ECTS). Bachelor programmes *International Business Studies* & *International Economic Studies*. With Almut Schilling-Vacaflor.
- Oct.25-Feb. 26** Friedrich Alexander University Erlangen-Nürnberg, *Energy Policy Instruments* (15 weeks x 3 hours, 5 ECTS).
- Oct-Dec. 25** Friedrich Alexander University Erlangen-Nürnberg, *Zukunftsperspektiven der Wirtschaftsforschung* (8x 2 hours, 2.5 ECTS). Bachelor *Wirtschaftswissenschaften*.
- April-Jul. 25** Friedrich Alexander University Erlangen-Nürnberg, *International Politics: Global Sustainability* (12 weeks x 2 hours + exercises, 5 ECTS). Bachelor programmes *Sozialökonomik* and *Wirtschaftswissenschaften*. With Almut Schilling-Vacaflor
- April-Jul. 25** Friedrich Alexander University Erlangen-Nürnberg, *International Politics* (12 weeks x 2 hours + exercises, 5 ECTS). Bachelor programmes *International Business Studies* & *International Economic Studies*. With Almut Schilling-Vacaflor.
- Oct.24-Feb.25** Friedrich Alexander University Erlangen-Nürnberg, *Climate Policy* (15 weeks x 2 hours, 5 ECTS) (course 54324).
- Oct.24-Feb.25** Friedrich Alexander University Erlangen-Nürnberg, *Energy Policy Instruments* (15 weeks x 3 hours, 5 ECTS) (course 57486).
- Oct.24-Feb.25** Friedrich Alexander University Erlangen-Nürnberg, *Energy Security* (15 weeks x 2 hours, 5 ECTS) (course 85717). With Moniek de Jong.
- 2024.12.04** Friedrich Alexander University Erlangen-Nürnberg, Perspektiven des Nachhaltigkeitsmanagements – ein Debattierseminar: *CO<sub>2</sub>-Bepreisung – sein oder nicht sein* (2 hours).
- 2024.11.18** Friedrich Alexander University Erlangen-Nürnberg, Einführung Nachhaltigkeitsmanagement: *Moderne Klimapolitik* (2 hours).
- 2024.04.24** Paul Scherrer Institute & ETH Zürich, Frontiers in Energy Research seminar. *On the usefulness of carbon pricing* (2 hours).
- Apr.-Jul. 24** Friedrich Alexander University Erlangen-Nürnberg, *International Politics* (14 weeks x 2 hours, 5 ECTS). Bachelor programmes *International Business Studies* & *International Economic Studies*. With Almut Schilling-Vacaflor.
- Apr.-Jul. 24** Friedrich Alexander University Erlangen-Nürnberg, *International Politics II* (14 weeks x 2 hours + 1 hour exercise, 5 ECTS). Bachelor programme *Sozialökonomik*. With Almut Schilling-Vacaflor.
- 2023.11.27** Friedrich Alexander University Erlangen-Nürnberg, Studienrichtung Nachhaltigkeit, introductory class: *Moderne Klimapolitik* (2 hours).
- Oct.23-Feb.24** Friedrich Alexander University Erlangen-Nürnberg, *Climate Policy* (15 weeks x 2 hours, 5 ECTS) ([Link](#), course 54324).
- Oct.23-Feb.24** Friedrich Alexander University Erlangen-Nürnberg, *Energy Policy Instruments* (15 weeks x 3 hours, 5 ECTS) ([Link](#), course 54323).
- 2023.01.17** University of Potsdam, Lecture series Introduction to climate, earth, water, sustainability. *A policy mix for deep decarbonisation*. [Link](#)

- Oct.22-Feb. 23 University of Potsdam. *Climate and energy transition policy*.** 15 weeks x 2 hours, 6 ECTS. [Link](#).
- 2022.11.29 University of Potsdam.** Climate, Earth, Water, Sustainability: Debate Module. *Do we need carbon pricing for decarbonisation?* [Link](#)
- 2022.11.09 University of Potsdam.** Lecture series: Research meets practice. Scientific and civil society approaches to the sustainable development goals in two world regions: *The path to zero CO<sub>2</sub> emissions in the energy sector – how can science help?* [Link](#)
- 2022.02.01 University of Potsdam,** *Lecture series Introduction to climate, earth, water, sustainability.*
- 2021.11.03 Universidad Pontificia Boliviana & University of Potsdam,** Lecture series *Societal Transformation Processes. 100% decarbonisation - policy and instruments.* [Link](#).
- Oct.21-Feb. 22 University of Potsdam. *Climate and energy transition policy*.** 15 weeks x 2 hours, 6 ECTS. <https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&publishContainer=lectureContainer&publishid=89190>.
- April-July 21 University of Potsdam. *Energy policy: instruments for deep decarbonisation*.** 7x4 hours, 6 ECTS. Online seminar. <https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&status=init&vmfile=no&publishid=86758&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>.
- 2021.06.29 University of Potsdam. *Ringvorlesung zur Klimakrise*.** Vorlesung *Politik für ein CO<sub>2</sub>-neutrales Energiesystem*. <https://www.uni-potsdam.de/de/umweltportal/ringvorlesung-zur-klimakrise>.
- Oct.20-Feb. 21 University of Potsdam. *Climate and energy transition policy*.** 13 weeks x 2 hours, 6 ECTS. Online seminar. <https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&status=init&vmfile=no&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung&veranstaltung.veranstaltungid=83501>.
- 2020.06.30 University of Potsdam. *Ringvorlesung zur Klimakrise*.** Vorlesung *Politik für ein CO<sub>2</sub>-neutrales Energiesystem*. <https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&status=init&vmfile=no&publishid=81911&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>.
- April-July 20 University of Potsdam. *Energy policy: instruments for deep decarbonisation*.** 7x4 hours, 6 ECTS. Online seminar. <https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&status=init&vmfile=no&publishid=79755&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung>.
- Oct.19-Feb. 20 University of Potsdam. *Climate and energy transition policy*.** 15 weeks x 2 hours, 6 ECTS. <https://puls.uni-potsdam.de/qisserver/rds?state=verpublish&status=init&vmfile=no&publishid=78509&moduleCall=webInfo&publishConfFile=webInfo&publishSubDir=veranstaltung&language=en>.
- Sep.-Dec. 18 ETH, Zürich. *Environmental sciences Master course: Climate Policy*.** Theoretical foundations and differing perspectives on climate change mitigation policy. 14 weeks x 3 hours, 6 ECTS. <http://www.vvz.ethz.ch/lerneinheitPre.do?semkez=2018W&lerneinheitId=124201&language=en>. With Anthony Patt.
- 2018.06.14 University of Konstanz, Germany, *Master course: Controversial and critical views on global environmental issues*,** Zukunftscolleg. Lecture: Climate policies that might actually work.

- Feb.-June 18** **ETH, Zürich. *Environmental sciences Bachelor course: Praktikum Anthroposphäre.*** Energy scenario building and multi-criteria analysis in stakeholder workshops. 14 weeks x 14 hours, 7 ECTS. <http://www.vvz.ethz.ch/lerneinheitPre.do?semkez=2017S&lerneinheitId=112847&lang=de>. With Oscar van Vliet (course leader), Pius Krütli and Leonhard Späth.
- 2017.11.16** **University of Konstanz, Germany, Master course: *Controversial and critical views on global environmental issues*,** Zukunftskolleg. Lecture: *Climate policies that might actually work.*
- Sep.-Dec. 17** **ETH, Zürich. *Environmental sciences Master course: Climate Policy.*** Theoretical foundations and differing perspectives on climate change mitigation policy. 14 weeks x 3 lectures, 6 ECTS. <http://www.vvz.ethz.ch/Vorlesungsverzeichnis/lerneinheitPre.do?semkez=2017W&ansicht=ALLE&lerneinheitId=118739&lang=en> With Anthony Patt.
- Feb.-June 17** **ETH, Zürich, Course leader. *Environmental sciences Bachelor course: Praktikum Anthroposphäre.*** Energy scenario building and multi-criteria analysis in stakeholder workshops. 14 weeks x 14 hours, 7 ECTS. <http://www.vvz.ethz.ch/lerneinheitPre.do?semkez=2017S&lerneinheitId=112847&lang=de>. With Oscar van Vliet and Pius Krütli.
- 2016.11.15** **ETH, Zürich, Master Course "Introduction to sustainable development in the built environment",** Department for Civil, Environmental, and Geomatic Engineering: lecture on *Climate policy: The Paris agreement, renewables and difficult choices.*
- Feb.-June 16** **ETH, Zürich, Course leader. *Environmental sciences Bachelor course: Praktikum Anthroposphäre.*** Energy scenario building and multi-criteria analysis in stakeholder workshops. 14 weeks x 14 hours, 7 ECTS. <http://www.vvz.ethz.ch/lerneinheitPre.do?semkez=2016S&lerneinheitId=104988&lang=en>. With Oscar van Vliet and Pius Krütli.
- 2015.12.07** **ETH, Zürich, Masters Course "Introduction to sustainable development in the built environment",** Department for Civil, Environmental, and Geomatic Engineering: lecture on *Renewables: centralisation and decentralisation.*
- Feb.-May 15** **ETH, Zürich, Course leader. *Environmental sciences Bachelor course: Praktikum Anthroposphäre.*** Energy scenario building and multi-criteria analysis in stakeholder workshops. 14 weeks x 14 hours, 7 ECTS. <http://www.vvz.ethz.ch/Vorlesungsverzeichnis/lerneinheitPre.do?lerneinheitId=97261&semkez=2015S&lang=de>. With Oscar van Vliet.
- 2014.11.27** **ETH, Zürich, Switzerland. Master of Advanced Studies, Masters course "Development and Cooperation":** lecture on *Global, European and national climate policy.*
- Feb.-May 14** **ETH, Zürich. *Environmental sciences Bachelor course: Praktikum Anthroposphäre.*** Energy scenario building and multi-criteria analysis in stakeholder workshops. 14 weeks x 14 hours, 7 ECTS. <http://www.vvz.ethz.ch/Vorlesungsverzeichnis/lerneinheitPre.do?semkez=2014S&lerneinheitId=90123&ansicht=ALLE&lang=en>. With Pius Krütli (course leader), Oscar van Vliet.
- 2012.12.03 & 12.10** **Berlin School of Economics, Berlin, Germany, Masters course** Political economy of European integration: 4 seminars (*European energy policy* (2 seminars), *Decarbonisation concepts and technologies* (2 seminars)).
- 2011.11.28 & 12.05** **Berlin School of Economics, Berlin, Germany, Masters course** Environment, sustainability, security: 4 seminars (*European energy policy: aims, measures, conflicts* (2 seminars), *Electricity generation technologies, transmission and storage* (1 seminar), *Scenarios for the European electricity system in 2050* (1 seminar)).

**2010.11.29 & 12.06 Berlin School of Economics**, Berlin, Germany, Masters course Environment, sustainability, security: 4 seminars (*European energy policy* (2 seminars), *Electricity technologies and concepts*, *Europe's electricity future*).

## STUDENT SUPERVISION

### Supervision of PhD students

#### Nov. 25-current

**Advisor** of Puru Malhotra, *Energy transition policies in the global south* (working title), FAU Erlangen-Nürnberg. With Andreas Landmann, University of Marburg (co-supervisor).

#### Mar.25-current

**Co-advisor** of Alexander de Tomás Pascual, *Modelling the complexity of energy transitions* (working title). With Cristina Madrid, Autonomous University of Barcelona (main advisor).

#### Jan. 24-current

**Co-advisor** of Nina Kerker, University of Göttingen. *Gerechtigkeit, Akzeptanz und gesellschaftliche Kohäsion in der Energiewende* (working title). With Berthold Vogel, University of Göttingen (main advisor).

#### Jan. 24-current

**Advisor** of Ioannis Milioritsas, FAU Erlangen-Nürnberg. *Evaluation of policy mix effectiveness in energy and climate policy* (working title). With Marvin Nipper, FAU Erlangen-Nürnberg (co-supervisor)

#### Dec. 23-current

**Advisor** of Franziska Bold, FAU Erlangen-Nürnberg. *The Big Ban Theory: The politics and effectiveness of bans in energy and sustainability policy* (working title).

#### Jun. 22-current

**Co-advisor** of Ema Gusheva, Technical University Delft. *Role of energy system and integrated assessment models in climate policy* (working title). With Stefan Pfenninger, TU Delft (main advisor).

#### Dec. 17-current

**Advisor** of Lana Ollier, Universität Potsdam, Faculty of Economics and Social Sciences: *Policy interactions in the transition to renewables: the effects of policy mixes on the strategic behaviour of energy system actors* (working title). With Florence Metz, Universität Kaiserslautern (advisor).

### Completed PhDs

#### Dec. 21-June 25

**Advisor** of Rabea Scholz, University of Potsdam, Faculty of Economics and Social Sciences. Verteilen, verschieben, vergessen? Die Rolle der Gerechtigkeit in der Energietransformation zwischen Anspruch und Realität. Defence date: 2025.12.18. With Fabian Schuppert, University of Potsdam (advisor). Next position: Head of ministerial office, German Federal Ministry of Agriculture, Food and Regional Identity.

**Sept. 21-Oct. 24**

**Advisor** of Nicoletta Brazzola, ETH Zürich, Institute for Environmental Decisions. *Ready for take-off? Exploring synergies between carbon dioxide removal and the aviation sector.* Defence date: 2024.10.15. With Anthony Patt, ETH Zürich (advisor). Next position: Science Policy Fellow at the Swiss Parliament, Bern, Switzerland.

**Sept. 17-Sept 23**

**Main advisor** of Marc Melliger, Universität Potsdam, Faculty of Economics and Social Sciences: *Effects of exposing renewables to the market.* Defence date: 2023.12.15. With Emile Chappin, TU Delft (co- advisor). Next position: consultant, TEP Energy, Zürich, Switzerland.

**Apr. 19-Sept 23**

**Main advisor** of Saskia Ellenbeck, Universität Potsdam, Germany, Department of Economics and Social Science: *Zwischen Modellierung und Stakeholderbeteiligung: Wissensproduktionsprozesse in der Energiewendeforschung.* Defence date: 2023.11.09. Next position: Stadträtin in Berlin Tempelhof-Schöneberg, Germany (Municipal authority leader for traffic and public space)

**Aug. 17-March 20**

**Main advisor** of Tim Tröndle, ETH Zürich, Institute for Environmental Decisions: *Renewable electricity for all. Untangling conflicts about where to build Europe's future supply infrastructure.* Defence date: 2020.03.30. With Stefan Pfenninger, ETH Zürich (co-advisor) and Anthony Patt, ETH Zürich (co-examiner). Next position: Postdoctoral researcher at ETH Zürich, Switzerland.

**Oct. 14-Dec. 18**

**Advisor** of Mercè Labordena, ETH Zürich, Institute for Environmental Decisions: *Accelerating the energy transition: assessing ambitious scenarios to make solar power a global solution.* Defence date: 2018.12.12. With Anthony Patt, ETH Zürich (co-advisor). Next position: senior analysis at the European Solar Energy Association, Brussels, Belgium.

**Supervision of Master and Bachelor students**

54 Master theses, of which 15 at FAU; 10 BA thesis.

**DIDACTIC COURSES & EDUCATIONAL DEVELOPMENT**

**202.02-ongoing SCALE-UP – Enhancing student success through curriculum adaptation and teaching development – universal and practice-oriented.** 25 credit course/25 hours.

**2024.07.05 KI als Co-Creator – Lehre konzipieren, Lernmedien produzieren,** 2 hour class, Institut für Lern-Innovation, FAU Erlangen-Nürnberg.

**2024.04.10 Aktivieren mit LiveVoting und Abstimmungen,** 1 hour class, Institut für Lern-Innovation, FAU Erlangen-Nürnberg.

**2024.02.08 Critical Thinking goes ChatGPT – Kritisches Denken mit dem Chatbot fördern,** 2 hours class, Fortbildungszentrum Hochschullehre, FAU Erlangen-Nürnberg.

**2024.01.11 Haus- und Abschlussarbeiten korrigieren und bewerten,** 1 full day, Fortbildungszentrum Hochschullehre, FAU Erlangen-Nürnberg.

**2023.12.08 Kompetent mündlich prüfen,** 1 half day, ProfiLehrePlus, Hochschule für Philosophie München.

- 2023.10.25** **Konstruktive Gesprächstechniken**, 1 full day, Forschungsbildungszentrum, FAU Erlangen-Nürnberg.
- 2023.09.28** **Digitale Lehre kompakt: Überblick über StudOn**, 3 hours class, Forschungsbildungszentrum, FAU Erlangen-Nürnberg.
- 2018.11.12** **Using rubrics to grade, assess and improve student learning**, ½ day, *Didactica* programme, Universität Zürich, ETH Zürich.
- 2018.11.08** **Diskussionen sinnvoll einsetzen und anregen**, 1 full day, *Didactica* programme, Universität Zürich, ETH Zürich.
- 2018.09.05** **Leadership for innovation**, 1 full day, ETH Human Resources Personnel and Organizational Development. ETH Zürich.
- 2017.08.24-28** **Teaching at ETH: committed and skilled**, Course 1 of the Educational Development  
**Oct 17-May 18** and Technology continuing education programme in university teaching for ETH  
faculty members. 7 full days *Department of Education Development and Technology*,  
ETH Zürich.
- 2017.10.27** **Supervising students – dealing with roles and relationships**, 6 hours course,  
*Didactica* programme, Universität Zürich, ETH Zürich.
- 2017.10.05** **Improving presentations**, 1 full day, *Didactica* programme, Universität Zürich, ETH  
Zürich.
- 2017.09.21-22** **Begleitung von Studierenden bei Bachelor- und Masterarbeiten** [Advising  
Bachelor and Master theses], 2 days, *Didactica* programme, Universität Zürich.
- 2017.09.08-15** **Leadership in academia**, 2 days, *Department of Education Development and  
Technology*, Association of Academic Staff at D-USYS, ETH Zürich
- 2017.02.14-15** **Rhetoric in higher education**, 2 days, *Didactica* programme, Universität Zürich.

## SCIENTIFIC TALKS (selection, last 5 years)

- 2026.04.30** **World Bank**, Washington D.C.: *First build, then break: a policy framework for acceleration zero-carbon transitions.*
- 2026.04.28** **Jahrestreffen Forschungsnetzwerk Energiesystemanalyse**, Bundesministerium für Wirtschaft und Energie, Berlin: *Wissen für die transdisziplinäre Bewertung von Transformationspfaden.*
- 2026.03.25** **RWTH Aachen**, National Research Data Infrastructure Conference 2026: *Cultural worldviews, policy logics and public policy instruments in the context of the energy transition.*
- 2026.03.24** **RWTH Aachen**, National Research Data Infrastructure Conference 2026: *The integration of political factors in energy system modelling*
- 2025.11.28** **Siemens**, Siemens Research and Innovation Ecosystem Conference 2025: Technology drives sustainability. Keynote: *Technology is necessary for a fundamental sustainability transition.* [Link](#)
- 2025.10.09** **University of Oslo**, Climate governance data workshop: *The Climate Policy Atlas.*
- 2025.10.01** **Hamburger Fondsgespräche**, Hamburg: *Klimapolitik zwischen Ideologie und Industrie.*
- 2025.08.27** **European Consortium for Political Research (ECPR) General Conference**, Aristotle University Thessaloniki: *Modern climate policy.*
- 2025.08.27** **European Consortium for Political Research (ECPR) General Conference**, Aristotle University Thessaloniki: *Climate & renewables targets: drivers of future change or reflections of past achievements?*
- 2025.05.26** **Accelerating climate action: Examining the role of the state in emission scenarios and pathways: Targets as drivers of future progress or reflections of past action?**, Norwegian University Centre, Paris, France.
- 2025.04.03** **Renewables Grid Initiative: Impacts and opportunities of wind power deployment**, Berlin.
- 2025.03.24** **CST4All – Activities of the Concentrated Solar Thermal technology area of the EU SET plan: Concentrating solar power: a solution looking for a problem**, Plataforma solar, Almeria, Spain.
- 2025.02.21** **Sustainability Science Summit: Critical elements for the energy and climate transition - local sustainability and global development of georesources**, Umweltforum, Berlin.
- 2024.11.27** **NUElecture: Moderne Klimapolitik: Klimawende durch technologischen Wandel**, Neues Museum Nürnberg.
- 2024.11.06** **Wind, water, hydrogen: how Danish wind and collaboration can help save the German industry**, Royal Danish Embassy, Berlin.
- 2024.06.12** **What Works Climate Solutions Summit**, Berlin: *Measuring transition progress through systemic indicators.*
- 2024.03.15** **Wir machen das anders**, Bonn, Germany: *ESG ökologisch nachhaltig? Wunsch und Wirklichkeit.*
- 2024.02.20** **National Research Data Infrastructure Conference**, Hannover, Germany: *Open assumptions are necessary in energy system modelling.*
- 2023.07.24** **National Science and Technology Council**, Taipeh, Taiwan, Net-zero with social science conference: *Accelerating renewable energy deployment: balancing speed with citizen rights and administrative capacity.*

- 2023.02.14** **Ernst-Haeckel-Gymnasium, Werder, Day for future: *Moderne Klimapolitik.***
- 2022.12.15** **ETH Zürich, Institute for Environmental Decisions: *The effectiveness of carbon pricing.***
- 2022.10.24** **Universitätsgesellschaft Potsdam: *Licht aus für die Wohlstandsgesellschaft? Zum Umgang mit neuen Knappheiten.***
- 2022.11.10** **Sozialdemokratische Partei Deutschlands, SPD Berlin: *Eine unbequeme Gewissheit – Zeitenwende in der Klimapolitik.***
- 2022.10.28** **Chalmers University of Technology, Göteborg, Sweden: *The usefulness of carbon pricing: expectations and empirical observations.***
- 2022.09.20** **Inter-American Development Bank, Washington D.C., USA (virtual): *The usefulness of carbon pricing: expectations and empirical observations***
- 2022.08.29** **Hallenser Wirtschaftsgespräche, Berlin: *Die aktuelle außen- und energiepolitische Lage in Deutschland.***
- 2022.08.23** **European Consortium for Political Research (ECPR), Innsbruck, Austria: *Can we know? Predicting social tipping points.***
- 2022.05.30** **Dialog zur Klimaökonomie: 10 Jahre Wirtschaftsforschung zum Klimaschutz: Keynote: *CO<sub>2</sub>-Bepreisung und Investitionen für die Energiewende.* Kiel Institut für Wirtschaftsforschung, Potsdam-Institut für Klimafolgenforschung, Berlin.**
- 2022.05.07** **Potsdamer Tag der Wissenschaften: *Energieautarkie für Europa mit Wind & Sonne – kann das gelingen?***
- 2022.03.16** **Malaysian sustainable university network: national conference. Keynote: *Policies for complete decarbonisation of the energy system: lessons from Europe and past transitions.***
- 2022.03.07** **KU Leuven, Carbon pricing policy making through a sectoral lens: *Sequencing, spending and symbolism in national climate policy.***
- 2021.10.04** **LMET conference 2021: The modelling of the energy transition – cultures, visions, narratives: *Where do model results come from? Models as social constructions.***
- 2021.09.29** **KU Leuven, Carbon pricing and net-zero: *The role of carbon pricing in the policy mix for full decarbonisation.***
- 2021.09.28** **SolarPACES, Albuquerque, USA: *Scaling up concentrating solar power: how, how far, how fast?***
- 2021.09.27** **SolarPACES, Albuquerque, USA. Keynote: *The global CSP market: state of play and outlook.***
- 2021.09.06** **Polis180 TeaTimeTalk, Berlin: *CBAM: der CO<sub>2</sub>-Grenzausgleichmechanismus.***
- 2021.09.02** **ECPR, General Conference, Innsbruck, Austria/online: *Social tipping dynamics in a German coal phase-out region* (paper presented by Franziska Mey).**
- 2021.09.02** **ECPR, General Conference Innsbruck, Austria/online: *Why do governments implement low carbon prices? Sequencing and symbolism in climate policy.***
- 2021.08.31** **ECPR, General Conference, Innsbruck, Austria/online: *Is renewable energy technology trade more or less conflictive than other trade?* (paper presented by Maria Apergi).**
- 2021.07.02** **Wissensstadt Berlin, Echt oder Fake: *Der CO<sub>2</sub>-Preis: notwendig oder nicht?***

## MEDIA and OUTREACH (selection, last 5 years)

- Oct. 25** Europa wählt Importunabhängigkeit und Solarenergie, several outlets (e.g. [Link](#).)
- Oct. 25** Europe embraces solar energy to achieve import independence, Sciencemag, 2025.10.22. [Link](#).
- Aug. 25** Wie gut eignen sich CO<sub>2</sub>-Steuern, um wirklich Emissionen zu senken? Der Standard, 2025.08.13. [Link](#).
- Aug. 25** Most low carbon taxes are not designed to lower carbon emissions, Eurekalert, 2025.08.13. [Link](#).
- Aug. 25** Why most carbon taxes fail to reduce emissions: a closer look, Sciencemag, 2025.08.13. [Link](#).
- Mar. 25** Vernunft statt Ideologie, Neue Energie, 2025.03.10. [Link](#)
- Jan. 25** Desinformation zur Windkraft, *Die Profis*, RadioEins RBB, 2025.01.25.
- Jan. 25** Nicht ohne Nebenwirkung, Frankfurter Allgemeine Zeitung, 2025.01.20. [Link](#)
- Jan. 25** Hindernisse für Windkraft: das grösste Problem ist die Ablehnung vor Ort, Tagesspiegel, 2025.01.17. [Link](#)
- Jan. 25** Welche Mythen über Windräder falsch sind, Der Standard, 2025.01.13. [Link](#)
- Jan. 25** Da werden einfach Mythen verbreitet, Süddeutsche Zeitung, 2025.01.16. [Link](#)
- Dec. 24** Transformative change for a sustainable future, European Research Council, 2024.12.04. [Link](#)
- October 24** Denmark and Norway making strides towards net zero, Germany and UK lagging behind, Clean Energy Wire, 2024.10.02, [Link](#).
- October 24** Where leading countries stand in the transition to renewable heating, road transport and electricity, USA News Group, 2024.10.02, [Link](#).
- October 24** Ökostrom-Anteil wächst weiter, ARD Tagesschau und Deutschlandfunk, 2024.10.01, [Link](#).
- October 24** Emissionsdaten allein reichen nicht als Klimaschutzindikator, Tagesspiegel Background, 2024.10.01, [Link](#).
- October 24** Deutschland ist zu langsam, TAZ, 2024.10.01, [Link](#).
- October 24** Deutschland hinkt bei Energie-, Verkehrs- und Wärmewende offenbar hinterher, Der Spiegel, 2024.10.01, [Link](#).
- October 24** Analyse: Wo die Vorreiterstaaten bei der Wärme-, Verkehrs- und Stromwende stehen, Ecomento, [Link](#).
- June 24** Climate science may not require us to stop burning fossil fuels, but everything else does, ETH Energy Blog. [Link](#).
- May 24** Mit Wasserstoff günstiger zur Klimaneutralität? Science Media Center. [Link](#).
- Okt. 23** Europe's energy transition – rolling out renewables and infrastructure, Webinar *Green Deal, Big Deal*, Ecologic Institute. [Link](#).
- Jul. 23** Weiter so, nur schneller!, Sans Souci Magazin, [Link](#).
- Apr. 23** Schwedens Atomkurs: Atomkraft, ja bitte? *NDR Info – Morgenmagazin*. [Link](#).

- Mar. 23** **Endgültiges Aus für die Atomkraft – eine gute Entscheidung?** *NDR Info* – Redezeit. [Link](#).
- Mar. 23** **Berliner entscheiden über Klimaziele**, *RBB Brandenburg Aktuell*, 2023.03.26.
- Mar. 23** **Der Berliner Volksentscheid und seine möglichen Folgen für Brandenburg**, *RBB24*, 2023.03.25.
- Mar. 23** **Brauchen wir wirklich so viele Verbote?**, *Frankfurter Allgemeine Sonntagszeitung*, p.20. [Online version](#).
- Jan. 23** **Die Stunde der konzentrierten Solarthermie**, *Verantwortung – Das Magazin für Nachhaltigkeit, CSR und innovatives Wachstum*, FAZ Institut, p.59-61.
- Dec. 22** **So rechtfertigen die Oberengadiner Bergbahnen ihr Versprechen**, *Tagesanzeiger* 28 Dezember 2022, p.36.
- Oct. 22** **What would climate scientists do with \$100m?**, Sifted, Financial Times (<https://sifted.eu/articles/climate-scientists-climate-tech-investment/>; 2022.10.20).
- Oct. 22** **With winter fast approaching, Europe scrambles to prepare for energy shortages**, Yahoo! News (<https://news.yahoo.com/with-winter-fast-approaching-europe-scrambles-to-prepare-for-energy-shortages-215750160.html?guccounter=1>) (2022.10.11)
- Oct. 22** **RBB Aktuell** (evening news Berlin-Brandenburg), [Link](#) (from min. 3, in German; 2022.10.05)
- Oct. 22** **Nord Stream pipeline leak in Baltic Sea could cement Europe’s shift to renewables – eventually**, CBC news, <https://www.cbc.ca/news/science/nord-stream-russia-europe-gas-energy-1.6600944>. (2022.10.01)
- July 22** **Russia restarts NordStream 1 pipeline, but Germany’s energy woes are far from over**, Yahoo News, <https://news.yahoo.com/russia-restarts-nord-stream-1-pipeline-but-germanys-energy-woes-are-far-from-over-232232368.html?guccounter=1> (2022.07.22)
- July 22** **Sollten Atomkraftwerke länger am Netz bleiben? “Durch einen Streckbetrieb der AKW ein paar Prozent Gas einzusparen, könnte sinnvoll sein”** *Tagespiegel* <https://plus.tagesspiegel.de/wissen/sollten-atomkraftwerke-langer-am-netz-bleiben-durch-einen-streckbetrieb-der-akw-ein-paar-prozent-gas-einzusparen-konnte-sinnvoll-sein-545985.html> (2022.07.20)
- July 22** **Wartung von NordStream 1 endet**, Antenne Brandenburg, [https://rbbmediapmdp-a.akamaihd.net/content/d7/a7/d7a7fca0-b878-41be-b31a-19b80e6a8a87/9993ef7d-bd51-4e6b-9073-f1c175a5c620\\_153e86f3-dacc-405e-bb49-974c20f86e1e.mp3](https://rbbmediapmdp-a.akamaihd.net/content/d7/a7/d7a7fca0-b878-41be-b31a-19b80e6a8a87/9993ef7d-bd51-4e6b-9073-f1c175a5c620_153e86f3-dacc-405e-bb49-974c20f86e1e.mp3). (2022.07.19)
- June 22** **Europe’s turn back to coal a ‘temporary’ measure in response to Russian gas cuts**, CBC News, <https://www.cbc.ca/news/science/germany-coal-renewable-energy-climate-russia-1.6500354> (2022.06.25)
- June 22** **Paper shows how CSP can solve the EU gas crisis**. SolarPACES. <https://www.solarpaces.org/paper-shows-how-dispatchable-csp-can-solve-eu-gas-crisis/> (2022.06.10)
- May 22** **Warum die Regierung nicht zum Energiesparen aufruft**. Reporter. <https://www.reporter.lu/luxemburg-warum-die-regierung-nicht-zum-energiesparen-aufruft/> (2022.05.04).
- April 22** **‘Take that, Putin!’ Europe looks to wean itself quickly from Russian energy**. Yahoo news. <https://news.yahoo.com/take-that-putin-europe-looks-to-wean-itself-quickly-from-russian-energy-090053460.html> (2022.04.07)

- March 22** **Streit um Rubel und Gas. Experte für Energiepolitik: „Putin hat verloren – zumindest fürs Erste“.** Südwestpresse, Märkische Oderzeitung & Lausitzer Rundschau. <https://www.swp.de/politik/experte-fuer-energiepolitik-zum-streit-mit-russland-ueber-rubel-und-gas-putin-hat-verloren--zumindest-fuers-erste-63605985.html> (2022.04.31)
- March 22** **Tank-Rabatt und Heizung aus?** Fokus Online. [https://www.focus.de/finanzen/chance-fuer-energie-wende-tank-rabatt-und-heizung-aus-nur-habeck-kann-uns-aus-putins-wuergegriff-befreien\\_id\\_67974403.html](https://www.focus.de/finanzen/chance-fuer-energie-wende-tank-rabatt-und-heizung-aus-nur-habeck-kann-uns-aus-putins-wuergegriff-befreien_id_67974403.html) (2022.03.15).
- Feb. 22** **Tyskland gasar på – för mer el** Interview in Vetenskapsradion Klotet, Sveriges Radio P1 [Germany speeds up – for more electricity, Swedish national radio P1]. <https://sverigesradio.se/avsnitt/tyskland-gasar-pa-for-mer-el>. (2022.02.09)
- Jan. 22** **Enorm potential i nygammal solteknologi** [Enormous potential in ‘new yet old’ solar technology]. Interview in Dagens Industri <https://www.di.se/hallbart-naringsliv/enorm-potential-i-nygammal-solteknologi/> (2022.01.22)
- Dec. 21** **Forscher aus Potsdam und Zürich entwickeln „Solar-Kerosin“ für Flugzeuge.** Interview in Welt TV, <https://www.welt.de/vermischtes/video235542084/Solar-Kerosin-Forscher-aus-Potsdam-und-Zuerich-entwickeln-aus-Luft-und-Licht-Treibstoff-fuer-Flugzeuge.html> (2021.12.08).
- Nov. 21** **Solares Kerosin: Treibstoff der Zukunft.** Interview in Rundfunk Berlin-Brandenburg, RBB Info. <https://www.inforadio.de/programm/schema/sendungen/wissenswertes/202111/22/638271.html> (2021.11.22).
- Nov. 21** **Making jet fuel of sunlight and air,** Interview in Optica, <https://www.optica-opn.org/home/newsroom/2021/november/making-aircraft-fuel-from-sunlight-and-water/> (2021.11.11)
- Nov. 21** **Jet fuel from thin air,** Interview in BBC Science in Action, BBC world, <https://www.bbc.co.uk/sounds/play/w3ct114k>. (2021.11.04)
- Nov. 21** **Kerosin aus Luft und Sonnenlicht (English cc available),** IASS video channel, (<https://www.youtube.com/watch?v=JQwGrG0fGIY>) (2021.11.03)
- Aug. 21** **Das EEG als zentrales Instrument der deutschen Klimapolitik,** IASS Blog (<https://www.iass-potsdam.de/de/blog/2021/08/das-eeg-als-zentrales-instrument-der-deutschen-klimapolitik>; in English: <https://www.iass-potsdam.de/en/blog/2021/08/eeg-core-instrument-german-climate-policy>).
- May 21** **Ask a scientist,** Potsdamer Tag der Wissenschaften (<https://ptdw.de/ask-a-scientist/>) (2021.05.08).
- January 21** **Der CO<sub>2</sub>-Preis kann kein Leitinstrument sein.** Interview in Klimareporter, (2021.01.22) <https://www.klimareporter.de/gesellschaft/der-co-preis-kann-kein-leitinstrument-sein>

## ORGANISATION OF SCIENTIFIC MEETINGS

- Jan. 2026** **Organiser** *Climate Policy Atlas: Open data for climate and energy policy research.* NFDI4Energy, FAU Erlangen-Nürnberg (2026.01.20).
- June 2024** **Organiser** *Progress in the Energy Transition - What could Germany learn from pioneering countries?* Bertelsmann Stiftung, Berlin (2024.06.06).
- Sept. 2023** **Organiser** *Transition metrics: measuring transition progress from a systemic progress.* Methods framework workshop. Bertelsmann Stiftung, Berlin. (2023.09.22).

- Aug. 2022** **Panel chair** *Carbon pricing and the transition to climate neutrality*. ECPR conference, Innsbruck, Austria. (2022.08.23).
- Oct. 2021** **Section organiser** LMET Conference 2021: Modelling of the energy transition – culture, visions, narratives. Section: *Realities of modelling*. TRIPOD project. IASS, TU Delft.
- Sept. 2021** **Panel chair** *Politics of sustainable energy transitions: drivers and constraints*. ECPR conference, Innsbruck (online), Austria.
- April 2021** **Organiser** *Support or markets for mature renewables?* 2021.04.30. TRIPOD project. IASS (online workshop).
- April 2021** **Organiser** *Social Tipping Points in Coal- and Carbon-Intensive Regions – Perspectives from Multiple Disciplines*. 2021.04.19. TIPPING+ project. IASS, Sapienza Università di Roma, Nordland Research Institute (online workshop).
- March 2021** **Conference co-organiser** *MUSTEC final conference* (online workshop). 22.03.2021.
- Feb. 2021** **Workshop organiser** *Exploring social storylines and tipping points of the European energy transition*. Workshop at the Energy & Society Network of the European Sociological Association conference “5<sup>th</sup> Energy and Society Conference”, 10-12 February 2021, University Trento (online). Workshop date: 12.02.2021. SENTINEL and TIPPING+ projects.
- Jan.&Feb. 21** **Workshop organiser** *The role of carbon pricing in the mix of policies for complete decarbonisation*. TRIPOD project, IASS (online workshop, due to Covid19 contact restrictions) 2021.01.29 & 2021.02.25.
- Aug. 2020** **Section organiser** *The politics and policies of global energy transitions*. 7 panels at the General Conference of the European Consortium for Political Research (ECPR), Innsbruck, Austria. (online conference due to Covid19)
- Sept. 2019** **Section organiser** *Political economy of the global energy transition: a multi-scalar perspective*. 11 panels at the General Conference of the European Consortium for Political Research (ECPR), Wroclaw, Poland.
- Sept. 2019** **Panel chair** *Europeanisation of the clean energy transition: driver of or barrier to a carbon-free electricity system?* Political economy of the global energy transition: a multi-scalar perspective, ECPR conference, Wroclaw, Poland.
- Oct. 2016** **Workshop organiser** Policy needs and options for concentrating solar power development, Abu Dhabi, United Arab Emirates. Funded by European Research Council. Budget 30,000 €. 17 participants.
- May 2013** **Workshop organiser** *Social Challenges of Trans-Mediterranean Renewable Electricity Cooperation* workshop, IIASA, Laxenburg, Austria. 30 participants. Funded by European Research Council. Budget 30,000 €. 25 participants.
- June 2010** **Workshop organiser** Renewable energy in North Africa: a policy roadmap for 2050. Co-organised between IIASA and WWF Europe. Hammamet, Tunisia. Funded by European Climate Foundation. Budget 30,000 €. 20 participants.
- Nov. 2009** **Conference organiser** *Linking the MENA region’s renewable resources to Europe: scientific workshop to advance policy-relevant knowledge*, IIASA, Laxenburg. Funded by: European Climate Foundation, 49,880 €. 30 participants.
- Sept. 2008** **Conference organiser** *German-Italian cooperation for development of renewable energy in the Mediterranean*, PIK, Berlin. Funded by: Italian Embassy in Germany, 50,000 €. 80 participants.