

TERESE E. VENUS

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RESEARCH AREAS

Externalities of renewable energies; valuation of ecosystem services; sustainability transitions; climate change

EDUCATION

- Dr. rer. pol. in Economics** 2022
Technical University of Munich, Germany
Dissertation: “Valuing trade-offs between renewable energy and ecosystems”
- M.Sc. in Life Science Economics & Policy (Distinction)** 2017
Technical University of Munich, Germany
Thesis: “The Impact of Smart Metering and Time-of-Use Tariffs on Irish Residential Electricity Demand: An Interrupted Time Series Analysis”
- B.A. in Economics; Minors in German & Environmental Studies** 2014
Boston College, USA
Advanced standing for graduating one year early

ACADEMIC EXPERIENCE

- Head of Bioeconomy Economics Group** 03/2023 - Present
University of Passau, Faculty of Business, Economics and Information Systems
Junior research group leader (BMBF, 2023-2028)
Supervisor with examination rights for 3 PhD students
- Postdoctoral Researcher** 02/2022 - 02/2023
Technical University of Munich, Agricultural Production and Resource Economics
- Doctoral Researcher** 10/2017 - 01/2022
Technical University of Munich, Agricultural Production and Resource Economics
- Research Fellow** 08/2014 - 07/2015
U.S. Department of State, Bureau of Educational and Cultural Affairs
Fellowship in Germany funded by the Congress-Bundestag Exchange for Young Professionals

FUNDING ACQUISITION

- ReValueD: bridging the gap between technical knowledge and socio-economic realities** 2023-2028
German Federal Ministry of Education and Research (BMBF) *Principal Investigator*
· Bioeconomy as societal change programme; Total share of funding: €2.3 Million
- Marius2020! **VCFCSA: Value Chain Financing for Climate Smart Agriculture** 2020-2023
German Federal Ministry of Education and Research (BMBF) *Contributor*
· Total share of funding: Approx. €300,000
- Greening the international coffee value chain** 2021-2022
TUM Global Incentive Fund *Contributor*
· Total funding: Approx. €10,000
- WATERWISE: Co-designing sustainable management solutions for resilient Alpine headwaters** 2024
EU Interreg Alpine Space - Under review (2nd Stage) *Contributor*
· Total share of funding: €262,000 (Decision in June 2024)

TEACHING

- Interdisciplinary Development Seminar: Climate Change (MSc)** *Lecturer*
University of Passau: Winter 2023
- Applied Microeconomics and Impact Analysis (PhD)** *Lecturer*
Technical University of Munich: Winter 2019, Winter 2021, Winter 2022
- Econometric Impact Analysis (MSc)** *Lecturer*
Technical University of Munich: Winter 2017, Winter 2018, Winter 2019, Winter 2021, Winter 2022
- Advanced Workshop on the Q-Methodology (PhD)** *Invited Lecturer*
University of Applied Sciences Nürtingen-Geislingen: 2022
Federal University of Parana, Brazil: 2024 (online)
- Agriculture and Climate Change (Public)** *Guest Lecturer*
European Institute of Innovation and Technology (EIT) Food Innovation Scheme: 2021
- University Certificate of Teaching, Bavaria** *Certificate*
Obtained the Zertifikat Hochschullehre der Bayerischen Universitäten: 2020

PEER REVIEWED PUBLICATIONS

- Venus, T.E., Beale, C., Villalba, R. (2024). "Innovation and networks in the bioeconomy: A case study from the German coffee sector". *Circular Economy and Sustainability*. doi:10.1007/s43615-024-00357-7
- Villalba, R., Joshi, G., Daum, T., Venus, T.E. (2024). "Financing Climate-Smart Agriculture: A Case Study from the Indo-Gangetic Plains". *Mitigation and Adaptation Strategies for Global Change*. doi:10.1007/s11027-024-10127-3
- Hayes, D. S., Bruno, M. C., Alp, M., Boavida, I., Batalla, R. J., ..., & Venus, T. E. * (2023). "100 key questions to guide hydropeaking research and policy". *Renewable and Sustainable Energy Reviews*, 187, 113729. doi:10.1016/j.rser.2023.113729
- Canessa, C., Venus, T.E., Wiesmeier, M., Mennig, P., Sauer, J. (2023). "Incentives, rewards or both for payments for ecosystem services: Drawing a link between farmer preferences and biodiversity levels". *Ecological Economics*, 213, 107954. doi:10.1016/j.ecolecon.2023.107954
- Villalba, R., Venus, T.E., Sauer, J. (2023). "The Ecosystem Approach to Agricultural Value Chain Finance: A Framework for Sustainable Rural Credit". *World Development*, 164, 106177. doi:10.1016/j.worlddev.2022.106177
- Vanzo, D., Bejarano, M. D., Boavida, I., Carolli, M., Venus, T.E., & Casas-Mulet, R. (2023). "Innovations in hydropeaking research". *River Research and Applications*, 39(3), 277-282. doi:10.1002/rra.4118
- Straubinger, F. B., Venus, T. E., Benjamin, E. O., & Sauer, J. (2023). "Private management costs of *Popillia japonica*: a study of viticulture in Italy". *Frontiers in Insect Science*, 3, 1176405. doi:10.3389/finsc.2023.1176405
- Venus, T.E., & Sauer, J. (2022). "Certainty pays off: The public's value of environmental monitoring". *Ecological Economics*, 191, 107220. doi:10.1016/j.ecolecon.2021.107220
- Alp M, Batalla RJ, Bejarano MD, ... Venus, T.E., et al (2022). "Introducing HyPeak: An international network on hydropeaking research, practice, and policy". *River Research Applications*. doi: 10.1002/rra.3996
- Venus, T.E., Strauss, F., Venus, T. J., & Sauer, J. (2021). "Understanding stakeholder preferences for future biogas development in Germany". *Land Use Policy*, 109, 105704. doi:10.1016/j.landusepol.2021.105704
- Venus, T.E., Bilgram, S., Sauer, J., & Khatri-Chettri, A. (2021). "Livelihood vulnerability and climate change: a comparative analysis of smallholders in the Indo-Gangetic plains". *Environment, Development and Sustainability*. doi:10.1007/s10668-021-01516-8
- Venus, T.E., Smialek, N., Pander, J., Harby, A., & Geist, J. (2020). "Evaluating Cost Trade-Offs between Hydropower and Fish Passage Mitigation". *Sustainability*, 12(20), 8520. doi:10.3390/su12208520

Venus, T.E., Hinzmann, M., Bakken, T. H., Gerdes, H., Godinho, F. N., Hansen, B., ... Sauer, J. (2020). "The public's perception of run-of-the-river hydropower across Europe". *Energy Policy*, 140, 111422. doi:10.1016/j.enpol.2020.111422

CHAPTERS IN BOOKS

Venus, T.E., Hinzmann, M., & Gerdes, H. (2022). "Public acceptance of hydropower". In: *Novel Developments for Sustainable Hydropower*. Springer International Publishing, Cham, pp 29–40.

Venus, T.E., Smialek, N., Adeva Bustos, A., Pander, J., & Geist, J. (2022). "Costs of mitigation measures". In: *Novel Developments for Sustainable Hydropower*. Springer International Publishing, Cham, pp 13–27.

SCIENTIFIC REPORTS

Neudert, R., Venus, T.E., Sauer, J., Beckman, V. "Review of Production Economics on Restoration of Species-Rich Grasslands". Deliverable for Grassworks Project: What works in grassland restoration in Germany and why?, 2022.

Venus, T.E., Smialek, N., Pander, J., Harper, R., Adeva-Bustos, A., Harby, A., & Hansen, B. (2020). "General Cost Figures for Relevant Solutions, Methods, Tools and Devices". Deliverable 4.3 of the FIThydro project funded under the European Union's Horizon 2020 research and innovation programme GA No: 727830

Harby, A., David, L., Adeva Bustos, A., Hansen, B. T., & Rutkowski, T.E. (2019). "Functional application matrix for identification of potential combinations of improvement measures". Deliverable 4.2 of the FIThydro project funded under the European Union's Horizon 2020 research and innovation programme GA No: 727830. *Venus.

Hinzmann, M., Gerdes, H., Venus, T.E., Bakken, T. H., Dewitte, M., Godinho, F. N., ... Pinheiro, A. (2019). "Public acceptance of alternative hydropower solutions". Deliverable 5.3 of the FIThydro project funded under the European Union's Horizon 2020 research and innovation programme GA No: 727830.

JOURNAL PAPERS UNDER REVIEW

Villalba, R., Venus, T.E., Trappmann, J., Sauer, J. "Smallholder financial inclusion: measuring access and usage of financial services in the Global South". Submitted to *World Development*.

Villalba, R., Venus, T.E., Monteiro, N., De Toro, L., Sauer, J. "The role of financial firms and digital products in smallholder financial inclusion: case studies from Latin America". Submitted to *Journal of Rural Studies*.

WORKS IN PROGRESS

Venus, T.E., Ramstötter, S., Schönfelder, L. "The emergence of virtual power plants: prosumer preferences". Target Journal: *Energy Policy*.

Venus, T.E., Ola, O., ... Hayes, D.S., "The power of hydropeaking: trade-offs between flexible hydropower and ecosystem services". Target Journal: *Ecological Economics*.

Venus, T.E., Speelman, E., Zabala A. "The comparative Q-methodology for environmental discourse: guidelines for analysis across time, place and treatments". Target Journal: *Ecological Economics*.

Jäckel, F., Venus, T.E. "Livelihood vulnerability, migration and climate change: a case study from Ghana". Target journal: *Climate and Development*.

Aza, G., Bajos, K., Venus, T.E. "Information, influence and innovation in Costa Rica's bioeconomy transition: a social network analysis". Target journal: *Sustainable Production and Consumption*.

Ptacek, M., Venus, T.E., Sauer, J. "Risk preferences and willingness to pay for grassland restoration". Target journal: *Environmental and Resource Economics*.

Santiago, N., Venus, T.E. "Understanding the bioeconomy transition in global agricultural value chains: evidence from the Philippines". Target journal: *Environment and Development Economics*.

Reis, G., da Silva, B., Hartmann, A., Venus, T.E. Promises and uncertainties in the cultivated meat market: a comparison of Germany and Brazil. Target journal: *Food Policy*.

- Braun, H., Venus, T.E., Rilling, B., Herbes, C. "Is the garden green? The paradox of consumer motivations and substrate preferences". Target Journal: *Ecological Economics*.
- Straubinger, F., Venus, T.E., Benjamin, E., Sauer, J. "The ecological future of pest control? Farmers' preferences under risk of infestation". Target Journal: *Ecological Economics*.
- Aza, G., Venus, T.E. "Network of action situations: an institutional analysis of Costa Rica's pineapple bioeconomy". Target journal: *Ecological Economics*.
- Funk, N., Schwermer, H., Möllmann, C., Venus, T.E. "Fishing for tourists: small-scale fisheries as a cultural good". Target journal: *Marine Policy*.
- Ptacek, M., Venus, T.E., Sauer, J., "Valuing grassland restoration at the landscape level: a spatial econometrics approach". Target journal: *Environmental and Resource Economics*.

SUPERVISION AND MENTORING

PhD: main supervisor and examiner

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|----------------|---|
| 2023 - present | Franziska Jäckel: The development of biomass value webs in Ghana |
| 2023 - present | Gremary Aza: The distribution of benefits from the bioeconomy in Costa Rica |
| 2023 - present | Nymphary Santiago: The impact of the circular bioeconomy in the Philippines |

PhD: daily supervisor

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| 2024 - present | Bipa Jahan (visiting PhD, Uni Bolzano): Socio-economic impacts of hydropeaking |
| 2022 - 2024 | Moritz Ptacek: The economics of grassland restoration in Germany |
| 2022 - 2024 | Franzika Straubinger: An economic analysis of the invasive beetle in Europe |
| 2021 - 2023 | Carolin Canessa: An economic analysis of agri-environmental payments in Europe |
| 2019 - present | Roberto Villalba: Financial inclusion and innovation in the Global South |

Master's Thesis Projects

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| 2024 | Karla Bajos; Franziska Jäckel; Enrique Ramirez; Laura Araoz |
| 2023 | Garima Joshi |
| 2022 | Carolin Beale |
| 2021 | Leonor De Toro; Juan Martin-Ferreras; Juliana Trappmann; Severin Ramstoetter |
| 2020 | Nicolau Monteiro; Fredrick Bosche; Kyungjin Min; Felix Strauss |
| 2019 | Dasom Kim; Mirza Novokomet; Stephanie Bilgram; Lea Salthammer |
| 2018 | Fabio J. Alvarez |

ACADEMIC SERVICE

- Reviewer for *Ecological Economics*; *Energy Policy*; *Renewable and Sustainable Energy Reviews*; *Technological Forecasting & Social Change*; *Environment, Development and Sustainability*; *GeoJournal*; *Fisheries Management and Ecology*; *Journal of Environmental Studies and Sciences*; *Journal of Environmental Planning and Management*
- Guest Editor, 2021-2023: *River Research and Applications*: Special Issue on Hydropeaking
- Core Board Member of HyPeak: Hydropeaking Network, 2021 - present

INVITED KEYNOTE PRESENTATIONS

- "Delivering Institutional Sustainability". University of Cambridge, Wolfson College, UK. Transforming Sustainability Conference. July 13, 2023.

INVITED PRESENTATIONS

- “Der Übergang zur Bioökonomie und nachhaltige globale Biomasse-Wertschöpfungsketten” [in German]. Merseburg University of Applied Sciences: Circular Economy Ringvorlesung. Merseburg, Germany. Scheduled for May 8, 2024.
- “The circular bioeconomy transition and case studies from global biomass value chains”. Regional Studies Association - City and Regional Sustainability Transitions Webinar Series. Online, April 11, 2024.
- “The bioeconomy and sustainable global biomass value chains”. Academic, Research and International Societal Exchange (ARISE) Program: World Issues in Socioeconomics (WISE), Council of ASEAN Professors in Korea. Online, March 23, 2024.
- “The bioeconomy and climate change”. University of Southeastern Philippines, College of Applied Economics. Davao City, Philippines, December 12, 2023.
- “The Role of the Bioeconomy for Sustainable Development”. Visayas Regional Forum on the Economy and Environment 2022: Challenges and Opportunities in Transitioning to a Resilient and Sustainable Future. Online, November 4, 2022.
- “Promoting financial inclusion through digital tools: Lessons from Agri Fin Techs in Latin America”. Workshop: Interventions and instruments to enhance sustainable farming practices: Lessons from Indonesia and beyond. University of Passau, September 29-30, 2022.
- “Challenges and perceptions of hydropower and the environment”. EU Green Week Partner Event. 2021, online.
- “Public Perceptions & Citizen Participation”. Conference: Smart Ways to Improve River Connectivity. 2020, online.

MEDIA

- November 2023 Bioökonomie.de: Soziale und ökologische Wertschöpfungsketten aufbauen [in German]
- April 2023 Niederbayern TV: Ersetzen tropische Früchte bald fossile Rohstoffe? [in German]