

TERESE E. VENUS

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RESEARCH AREAS

Externalities of renewable energies; bioeconomy transition; valuation of ecosystem services; global value chains; climate change adaptation

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** 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

- Junior Research Group Leader** 03/2023 - Present
University of Passau, Bioeconomy Economics Research Group
Funded by German Ministry of Research and Education for five years
Supervisor of three PhD students with fieldwork in Ghana, the Philippines and Costa Rica
- 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

PEER REVIEWED PUBLICATIONS

- Villalba, R., Joshi, G., Daum, T., Venus, T.E.. “Financing Climate-Smart Agriculture: A Case Study from the Indo-Gangetic Plains”. Accepted at *Mitigation and Adaptation Strategies for Global Change*.
- 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
- 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/sui2208520
- 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, 11422. doi:10.1016/j.enpol.2020.11422

TEACHING

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

FUNDING ACQUISITION

ReValueD: bridging the gap between technical knowledge and socio-economic realities <i>German Federal Ministry of Education and Research (BMBF)</i>	2023-2028 Principal Investigator
· Total funding: €2.3 Million at the University of Passau	
VCFCSA: Value Chain Financing for Climate Smart Agriculture <i>German Federal Ministry of Education and Research (BMBF)</i>	2020-2023 Contributor
· Total funding: Approx. €300,000 at the Technical University of Munich	
Greening the international coffee value chain <i>TUM Global Incentive Fund</i>	2021-2022 Contributor
· Total funding: Approx. €10,000 at the Technical University of Munich	

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. "The Smallholder Financial Inclusion index: measuring access and usage of financial services in the Global South" . Submitted to *Journal of Agricultural Economics*.

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, space and treatments". *Ecological Economics*.
- Reis, G., T.E. Venus. 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. "Environmental issues in gardening: understanding consumer preferences for substrates and peat". Target Journal: *Ecological Economics*.
- Ptacek, M., Venus, T.E., Sauer, J., "Valuing grassland restoration at the landscape level: a spatial econometrics approach". Target journal: *Environmental and Resource Economics*.
- Straubinger, F., Venus, T.E., Benjamin, E., Sauer, J. "Willingness to pay for research and development of new ecological pest control: a comparative study of European farmers". Target journal: *Ecological Economics*.
- Villalba, R., Venus, T.E., Monteiro, N., De Toro, L., Sauer, J. "Promoting financial inclusion through digital tools". Target journal: *Journal of Agrarian Studies*.
- Funk, N., Schwermer, H., Möllmann, C., Venus, T.E. "Fishing for tourists: small-scale fisheries as a cultural good". Target journal: *Marine Policy*.

SUPERVISION AND MENTORING

PhD Projects

- F. Jäckel. (2023 - present). University of Passau, main supervisor and examiner. The development of biomass value webs in Ghana.
- G. Aza (2023 - present). University of Passau, main supervisor and examiner. The equitable distribution of benefits from the bioeconomy: a case study from Costa Rica.
- D. Santiago (2023 - present). University of Passau, main supervisor and examiner. Indigenous and Local Knowledge, ecosystem valuation and the circular bioeconomy's innovations in the Philippines.
- M. Ptacek (2022 - 2024). TU Munich, daily supervisor. The economics of grassland restoration in Germany.
- F. Straubinger (2022 - 2024). TU Munich, daily supervisor. Socio-economic analysis of the potential impact of the invasive Japanese beetle in Europe.
- C. Canessa (2021 - 2023). TU Munich, daily supervisor. An economic analysis of agri-environmental payments in Europe.
- R. Villalba (2019 - 2024). TU Munich, daily supervisor. Agricultural value chain finance and climate smart agriculture: case studies from the Global South.

+ 17 *Master's Thesis Projects*

+ 15 *Master's research projects*

ACADEMIC SERVICE

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

INVITED KEYNOTE PRESENTATIONS

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

INVITED PRESENTATIONS

- “Bioeconomy and Climate Change Economics”. 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.