

# TERESE E. VENUS

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ResearchGate ◊ LinkedIn

## RESEARCH AREAS

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Bioeconomy transition; valuation of ecosystem services; climate adaptation; externalities of renewable energies

## EDUCATION

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- 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

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- 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; EU Interreg 2024-2027) with four 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 AND PROJECTS

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- 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
- WATERWISE: Co-designing sustainable management solutions for Alpine headwaters** 2024-2027  
*EU Interreg Alpine Space* *Contributor*
- Total share of funding: €262,000
- 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

**Passau International Centre for Advanced Interdisciplinary Studies / Event Funding Pool** 2024  
*Event Funding Grant* *Principal Investigator*

- Total share of funding: €4,000

**Greening the international coffee value chain** 2021-2022  
*TUM Global Incentive Fund* *Contributor*

- Total funding: Approx. €10,000

**Grassworks: What Works in German Grassland Restoration and Why** 2021-2023  
*German Federal Ministry of Education and Research* *Postdoctoral Researcher*

- Supervisor of PhD student and author of deliverable

**FIThydro: Fish-friendly Innovative Technologies for Hydropower** 2017-2021  
*European Union Horizon 2020* *Doctoral Researcher*

- Responsible for two deliverables

## TEACHING

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**Interdisciplinary Development Seminar (MSc)** *Lecturer*  
University of Passau: Winter 2023 (Climate Change Economics)  
Winter 2024 (Economics of Ecological Connectivity)

**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

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Venus, T.E., Ola, O., ... Hayes, D.S., (2025). "The power of hydropeaking: trade-offs between flexible hydropower and ecosystem services in Europe". *Ecological Economics*. doi:<https://doi.org/10.1016/j.ecolecon.2025.108583>

Reis, G., da Silva, B., Hartmann, A., Venus, T.E.\* (2025) "Promises and uncertainties in the cultivated protein market: perspectives from Germany and Brazil". *Food Policy*. doi:<https://doi.org/10.1016/j.foodpol.2025.102820>

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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, 111422. doi:10.1016/j.enpol.2020.111422

## CHAPTERS IN BOOKS

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- 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

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- 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

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- 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”. Revisions at *Journal of Rural Studies*.
- Aza, G., Bajos, K., Venus, T.E. “The role of social innovation in the bioeconomy: the case of Costa Rica’s pineapple value web”. Under review at *Journal of Environmental Management*.
- Ptacek, M., Venus, T.E., Frick, F., Sauer, J. “Monitoring matters: the role of risk in environmental valuation”. Submitted to *Resource and Energy Economics*.
- Temperton, V., Venus, T.E., et al. “Proposing a social-ecological framework for successful grassland restoration in Germany – an overview and insights from the Grassworks project” . Submitted to *Restoration Ecology*.
- Straubinger, F., Venus, T.E., Benjamin, E., Sauer, J. “Synthetic or biological pest control? Preferences of European farmers at risk of infestation”. Under Review at *Ecological Economics*.
- Braun, H., Venus, T.E., Rilling, B., Herbes, C. “Is the garden green? The paradox of consumer motivations and substrate preferences”. Under Review at *Ecological Economics*.
- Ramirez, J.E., Santiago, N.D., Venus, T.E.\* “Resilience in the aftermath? An analysis of post-disaster discourse and economic behavior in the Philippines”. Submitted to *International Journal of Disaster Risk Reduction*.

## WORKS IN PROGRESS

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- Venus, T.E., Venus, T.J., Steindl, M., Maruejols, L. “The impact of biogas policies on crop diversity and agri-environmental payments”. Target journal: *Environmental and Resource Economics*.
- Venus, T.E., Aza, G., Santiago, N., Jäckel, F. “Bioeconomy innovations in agricultural value chains”. Target journal: *Food Policy*
- 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*.
- Aza, G., Venus, T.E. “Network of action situations: an institutional analysis of Costa Rica’s pineapple bioeconomy”. Target journal: *Ecological Economics*.
- Boavida, I. ... Venus, T.E. “Horizon scan on sustainable hydropower” . Target journal: *Renewable and Sustainable Energy Reviews*.
- Funk, N., Schwermer, H., Möllmann, C., Venus, T.E. “Fishing for tourists: small-scale fisheries as a cultural good”. Target journal: *Marine Policy*.
- Jäckel, F., Venus, T.E. “Translocality and livelihood vulnerability: a case study from Ghana”. Target journal: *Environmental Development*.
- Jäckel, F., Venus, T.E. “Social and community impacts of bio-based products: evidence from Ghana”. Target journal: *World Development*.
- Jäckel, F., Venus, T.E. “The role of different network structures in information dissemination and innovation adoption: Evidence from farmer groups in Ghana”. Target journal: *Journal of Behavioral and Experimental Economics*.
- Santiago, N., Braun, H., Rilling, B., Herbes, C., Venus, T.E. “Is local always more sustainable? Consumer perception and valuation of peat alternatives”. Target journal: *Sustainable Production and Consumption*.
- Santiago, N., Venus, T.E. “Do farmers trust institutions? Evidence from the Philippines”. Target journal: *Ecological Economics*.
- Santiago, N., Venus, T.E. “The role of smallholders in the bioeconomy transition: evidence from the Philippines”. Target journal: *World Development*.
- Ptacek, M., Venus, T.E., Sauer, J., “Valuing grassland restoration at the landscape level: a spatial econometrics approach”. Target journal: *Environmental and Resource Economics*.

Villalba, R., Venus, T.E., Trappmann, J., Sauer, J. “Smallholder financial inclusion: measuring access and usage of financial services in the Global South” . Target journal: *European Journal of Development Research*.

## SUPERVISION AND MENTORING

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### *PhD: main supervisor and examiner*

2024 - present	Leon Bögel: Climate economics and water resources in the Alps
2023 - present	Franziska Jäckel: Behavioral economics in the bioeconomy: trust, networks, and global trade
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*

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	Franziska Straubinger: An economic analysis of the invasive beetle in Europe
2021 - 2023	Carolin Canessa: An economic analysis of agri-environmental payments in Europe
2019 - 2025	Roberto Villalba: Financial inclusion and innovation in the Global South

### *Master's Thesis Projects*

2025	Enrique Ramirez; Laura Araoz; <i>In progress</i> : Paul Lambon; Laura Fuchs; Maria Guadalupe Carcache Fletes; Monika Ranabhat
2024	Karla Bajos; Franziska Jäckel
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

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- Reviewer for *Ecological Economics; Energy Policy; Food 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, Progress in Economic Geography*
- Guest Editor, 2021-2023: *River Research and Applications*: Special Issue on Hydropeaking
- Core Board Member of HyPeak: Hydropeaking Network, 2021 - present
- Expert Reviewer Panel, 2024: *INRAE Research Programme, France*

## INVITED KEYNOTE PRESENTATIONS

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

## INVITED PRESENTATIONS

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“Community development through residue valorization” FAO’s Workshop on Resilience and Sustainability in Tropical Fruit Value Chains in Rome, Italy. May 15-16, 2024.

“Der Übergang zur Bioökonomie und nachhaltige globale Biomasse-Wertschöpfungsketten” [in German]. Merseburg University of Applied Sciences: Circular Economy Ringvorlesung. Merseburg, Germany. 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 FinTechs 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.

## **MEDIA**

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