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Education

Ph.D. Candidate, University of Freiburg

M.Sc. Economics and Politics, University of Freiburg, 2015

B.Sc. Economics, University of Freiburg, 2013

Current Positions

Head of Group Agrivoltaics,
Fraunhofer Institute for Solar Energy Systems ISE, since January 2021

Chair of the working group Agrivoltaics of the German Research Network Renewable Energies

Previous Positions

Head of Team Agrivoltaics, Fraunhofer ISE, March 2018–January 2021

Project Manager Agrivoltaics, Fraunhofer ISE, March 2018–January 2021

Research Associate Agrivoltaics, University of Freiburg, May 2017–October 2018

Research Assistant, Fraunhofer ISE, September 2016–February 2018

Student Assistant Agrivoltaics, Fraunhofer ISE, January 2014–August 2015

Internship, European Parliament, September 2013–October 2013

Managing director, Organic food store, October 2001–February 2005

Selected Publications

Trommsdorff M., et al. (2022): Agrivoltaics: solar power generation and food production, in: Gorjian S. and Campana P.: Solar Energy Advancements in Agriculture and Food Production Systems. Elsevier. ISBN: 9780323886253; https://doi.org/10.1016/C2020-0-03304-9

Hermann C., Dahlke F., Focken U., and Trommsdorff M. (2022): Aquavoltaics: dual use of natural and artificial water bodies for aquaculture and solar power generation, in: Gorjian S. and Campana P. (2022): Solar Energy Advancements in Agriculture and Food Production Systems. Elsevier. ISBN: 9780323886253; https://doi.org/10.1016/C2020-0-03304-9

Gorjian S, Trommsdorff M., Bousi E., and Ã–zdemir Ã–. (2022): Progress and Challenges of Crop Production and Electricity Generation in Agrivoltaic Systems Using Semi-transparent Photovoltaic Technology, Renewable Sustainable Energy Reviews; https://doi.org/10.1016/j.rser.2022.112126

Trommsdorff M., Vorast M., Durga N., and Padwardhan S. (2021): Potential of agrivoltaics to contribute to socio-economic sustainability: A case study in Maharashtra/India. AIP Conference Proceedings 2361, 040001 (2021); https://doi.org/10.1063/5.0054569

Vollprecht J., Trommsdorff M., and Hermann C. (2021): Legal framework of agrivoltaics in Germany, AIP Conference Proceedings 2361, 020002 (2021); https://doi.org/10.1063/5.0055133

Wirth H, Eggers J-B, Trommsdorff M, Neuhaus H, Heinrich M, Wieland S, Schill C (2021): Potenziale der Integrierten Photovoltaik in Deutschland. Tagungsband 36. PV-Symposium, ISBN 978-3-948176-14-3

Trommsdorff M., Kang J., Reise C., Schindele S., Bopp G., Bauerle A., Weselek A, Högy P, Obergfell T. (2021): Combining Food and Energy Production: Design of an Agrivoltaic System Applied in Arable and Vegetable Farming in Germany. Renewable and Sustainable Energy Reviews

Trommsdorff M., et al. (2021): Performance of agrivoltaic systems: a showcase from Germany, in: Littwin M., Baumgartner, F., Green, M., and van Sark, W. (2021): International Energy Acenvy Photovoltaic Power Systems Programme, Performance and Reliability of Photovoltaic Systems, Subtask 1.3: Performance of New Photovoltaic System Designs, IEA PVPS Task 13, `https://iea-pvps.org/research-tasks/performance-operation-and-reliability-of-photovoltaic-systems/`

Trommsdorff M., et al. (2021): Performance indices for parallel agriculture and PV usage, in: Littwin M., Baumgartner, F., Green, M., and van Sark, W. (2021): International Energy Acenvy Photovoltaic Power Systems Programme, Performance and Reliability of Photovoltaic Systems, Subtask 1.3: Performance of New Photovoltaic System Designs, IEA PVPS Task 13, `https://iea-pvps.org/research-tasks/performance-operation-and-reliability-of-photovoltaic-systems/`

Schindele S., Trommsdorff M., Schlaak A, et al. (2020): Implementation of agrophotovoltaics: Techno-economic analysis of the price-performance ratio and its policy implications, Applied Energy, Volume 265, ISSN 0306-2619, `https://doi.org/10.1016/j.apenergy.2020.114737`

Gorjiana S., Minaee S., Mircheginic L., Trommsdorff M. (2020): PV Systems in Agricultural Automation and Robotics. In: Photovoltaic Solar Energy Conversion: Technologies, Applications and Environmental Impacts. ELSEVIER, ISBN 978-0-12-819610-6

Trommsdorff M. (2016): An economic analysis of agrophotovoltaics: Opportunities, risks and strategies towards a more efficient land use. Constitutional Economics Network Working Paper 2016(03)

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