

DOMINIK HUBER

PHD RESEARCHER

PROFILE

Passionate Ph.D. researcher specializing in sustainability and energy technologies, adept in LCA methodologies and their integration with energy system models

CONTACT

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EDUCATION

Life Cycle Assessment of Sustainable Energy Management (PhD)

JUN 2020 - today
Vrije Universiteit Brussel

Life Cycle and Sustainability (M.Sc.)

SEP 2017 – FEB 2020
Pforzheim University

Business Administration (B.A.)

SEP 2013 – FEB 2017
Hochschule für Technik Stuttgart



WORK EXPERIENCE

PhD researcher

MOBI Research Center, Brussels, Belgium

JUN 2020 - TODAY

Investigating different types of environmental and economic evaluations of different energy technologies and their consequences on larger systems

Research Assistant

Pforzheim University, Germany

MAR 2019 – FEB 2020

Conducted a life cycle assessment and a stakeholder analysis for the integration of autonomous fleets of minibuses into urban transportation

Internship Finance

TRUMPF GmbH & Co. KG, Ditzingen, Germany

MAR 2017 – JUL 2018

Organized and conducted business events (business simulation games, workshops, and IT tests), conduct market research, and supported operational accounting

Internship Lean Management

Robert Bosch GmbH, Schwieberdingen, Germany

MAR 2015 – MAY 2016

Improved lean management tools, drove site-wide implementation, and crafted innovative solutions for Bosch's connect platform.

Bank Clerk

Sparkasse Memmingen-Lindau-Mindelheim, Germany

SEP 2010 – AUG 2013

Advised private customers on financial transactions, insurance, and investments

KNOWLEDGE AND TEACHING

Attended domain-specific courses

Open Approaches to Time in LCA
Départ de Sentier, Switzerland (2023)

Advanced LCA – Consequential and IO-based Life Cycle Assessment
Aalborg Universitet, Denmark (2023)

Advanced Energy System Analysis on the EnergyPLAN Model
Aalborg Universitet, Denmark (2022)

Teaching support

Conducted LCA exercise classes for “Decision Support for Sustainability” course (2022/2023)

Provided guidance and supervision for student projects for “Hybrid Vehicle Trajectory” course (2023/2024)

RESEARCH PROJECTS

Flemish projects

ECOFLEX, OPTIMESH Re2Live, MAMuET, ROLECS, OPTIBIDS

European projects

WIMBY, BD4OPEM, AVENUE

LANGUAGES

German (Native)
English (C1)
Spanish (B2)
French (A2)
Italian (A1)
Portuguese (A1)

OTHER QUALIFICATIONS

Quality management

QM Specialist

Software knowledge

Python, brightway, Simapro, Umberto, MS office

SOCIAL ENGAGEMENT

Beach volleyball club Brussels
2023 – today

VUB Orchestra
2023 – today

Secretary Kirchdorfer Musikanten
2013 – 2019

Active member Kirchdorfer Musikanten
2006 - 2020

PEER-REVIEWED PUBLICATIONS

- **D. Huber**, T. Viere, E. Horschutz Nemoto, I. Jaroudi, D. Korbee, and G. Fournier, "Climate and environmental impacts of automated minibuses in future public transportation," *Transp. Res. Part D Transp. Environ.*, 2022, doi: 10.1016/J.TRD.2021.103160.
- **D. Huber**, D. Costa, A. Felice, P. Valkering, T. Coosemans, and M. Messagie, "Decentralized energy in flexible energy system: Life cycle environmental impacts in Belgium," *Sci. Total Environ.*, 2023, doi: <https://doi.org/10.1016/j.scitotenv.2023.163882>.
- **D. Huber**, A. Martinez Alonso, M. Lavigne Philippot, and M. Messagie, "Eco-Efficiency as a Decision Support Tool to Compare Renewable Energy Systems," *Energies*. 2023, doi: 10.3390/en16114478.
- **D. Huber**, Q. De Clerck, C. De Cauwer, N. Sapountzoglou, T. Coosemans, and M. Messagie, "Vehicle to grid impacts on the total cost of ownership for electric vehicle drivers," *World Electr. Veh. J.*, 2021, doi: 10.3390/wevj12040236.
- P. Valkering, A. Moglianesi, L. Godon, J. Duerinck, **D. Huber**, and D. Costa, "Representing decentralized generation and local energy use flexibility in an energy system optimization model," *Appl. Energy*, 2023, doi: <https://doi.org/10.1016/j.apenergy.2023.121508>

CONFERENCE PROCEEDINGS AND PRESENTATIONS

- **D. Huber**, M. L. Philippot, M. Messagie. Weighted eco-efficiency for energy systems: What can we learn from different stakeholder groups?. 2023. SETAC Europe 33rd Annual Meeting, Dublin, Ireland.
- **D. Huber**, M. L. Philippot, M. Messagie. Environmental consequences of vehicle-to-grid for a future energy system: A case study of Eastern Denmark. 2023. The 11th International Conference on Life Cycle Management, Lille, France.
- **D. Huber**, M. L. Philippot, D. Costa, J. Smekens, M. Messagie. Levelized cost of storage of second-life battery applications in Flanders, Belgium. 2022. The 9th International Conference on Energy and Environment Research, Porto, Portugal.
- M. L. Philippot, **D. Huber**, D. Costa, J. Smekens, J. V. Mierlo, M. Messagie. Environmental feasibility of second-life battery applications in Belgium. 2022. The 9th International Conference on Energy and Environment Research, Porto, Portugal.
- **D. Huber**, L. Camargo, T. Coosemans, M. Messagie. A review on reviews of energy storage systems: Do we know enough to make a sustainable decision?. 2021. 1st International Agency for Energy Economics online conference, Paris, France.
- **D. Huber**, Q. Clerck, C. Cauwer, N. Sapountzoglou, T. Coosemans, M. Messagie. Vehicle to Grid Impacts on the Total Cost of Ownership for Electric Vehicle Drivers. 2021. The 34th International Electric Vehicle Symposium & Exhibition, Nanjing, China.
- **D. Huber**, E. Nemoto. Environmental life cycle impacts of autonomous minibuses and consequences for assessing future mobility systems. *Ökobilanzwerkstatt*. Stuttgart, 2019.

AWARDS

Best Oral Presentation Award, 19 Sep 2022, The 9th International Conference on Energy and Environment Research, Porto, Portugal.