

CONTACT ME



 ningsih@ftz.czu.cz

 +420-776-676-876

 [Lydia Mawar Ningsih](#)



HIGHLIGHTS

- Advanced skills and knowledge in sustainable technology, integrated energy systems, conversion of waste into energy, data analysis, laboratory analysis, content creation, and science communication

Lydia Mawar Ningsih

Postdoctor Researcher



WORK EXPERIENCE

Research Assistant

University of Lampung, Agro-industrial Waste Management Lab
2016 - 2020

- Lampung, Indonesia

Editorial Advisory Board

Directorate of Study and Research
2020 - 2022

- Overseas Indonesian Student's Association Alliance (OISAA)

Journalist

Jawa Post Group, Radar Lampung
2010 - 2016

- Lampung, Indonesia

Communication Manager

TROPENTAG

Sept. 2022

- CZU, Prague, Czech Republic
- Manage the social media to support to update the information for the conference activities

Visiting Researcher

Swedish Centre for Resource Recovery

Aug.2023 - Oct. 2023

- University of Boras, Sweden

Laboratory Energy, Faculty of Chemical and Metallurgical Engineering

April.2025 - June.2025

- Yildiz Technical University, Turkey

CONTACT ME

 ningsih@ftz.czu.cz

 +420-776-676-876

 [Lydia Mawar Ningsih](#)

Mentorship

European Federation of Chemical Engineering

Feb.2026 - October 2026

- Praha, Czech Republic

Expert Advisor

Research Evaluation & Innovation

Feb.2026 - March 2026

- University of Sussex, UK Government Project, 2026

EU-Funded Project Financial Management

Research Evaluation & Innovation

Jan.2026 - December 2026

- Czech University of Life Science Praha



EDUCATION HISTORY

Ph.D.

Czech University of Life Sciences, Prague

Year of Graduation 2025

- Prague, Czech Republic
- Dissertation research on "Agro-industrial Waste Revalorization for Bioenergy Purposes in the Developing World."

Master in Agro-industry Technology

University of Lampung

Year of Graduation: 2019

- Lampung, Indonesia
- Dissertation research on "Leaching Potassium from Palm Oil Empty Fruit Bunch Palm Oil (OPEFB) Using Tapioca Wastewater."

Bachelors in Agroindustry

University of Lampung

Year of Graduation: 2015

- Lampung, Indonesia



LANGUAGE SKILLS

- **English** - professional level
- **Japanese** - N3
- **Indonesian** - native speaker

OTHER SKILLS AND EXPERIENCES

- Experience in teaching sustainable and audit energy to MSc and BSc students
- Experience in teaching Japanese language for all level (beginner, middle level, and intensive for study purpose)
- Management wastewater into energy to net zero.
- Research and development for integrated energy system in industry level
- Development of research idea for business idea (startup)
- Journalist and communication management

CONTACT ME

 ningsih@ftz.czu.cz

 +420-776-676-876

 [Lydia Mawar Ningsih](#)

PROFESSIONAL SKILLS & INDUSTRY EXPERIENCE

- Sustainable Energy & Industrial Systems: Design and development of integrated energy systems, wastewater-to-energy management, and net-zero solutions.
- Research & Innovation Management: Developing research ideas into applied solutions and business/startup concepts for industry implementation.
- Project & Stakeholder Management: Confident in presenting, negotiating, and managing projects in interdisciplinary and international environments.
- Training & Mentorship: Teaching sustainable energy, energy audits, and Japanese language courses for MSc and BSc students.
- Communication & Media: Strong written, verbal, and graphical communication skills; experienced in journalism, media management, and public speaking.
- Scientific Presentation: Skilled in presenting research at international conferences, workshops, and all forms of media.



LIST OF SCIENTIFIC PUBLICATIONS

CONTACT ME

 ningsih@ftz.czu.cz

 +420-776-676-876

 [Lydia Mawar Ningsih](#)

ARTICLES

- **Ningsih, L. M.**, Mazancová, J., Hasanudin, U., & Roubík, H. (2024). Energy audits in the tofu industry: An evaluation of energy consumption towards a green and sustainable industry. *Environment, Development and Sustainability*, 1–23. <https://doi.org/10.1007/s10668-024-05109-z>
- **Ningsih, Lydia Mawar**, Udin Hasanudin, and Hynek Roubík. 2024. "Acclimatisation Process of Biogas Production from Tofu Industrial Wastewater Using Biofilter in Anaerobic Baffled Reactor (ABR)." *Journal of Renewable Energy*, 121519. <https://doi.org/10.1016/j.renene.2024.121519>.
- **Ningsih, Lydia Mawar**, Udin Hasanudin, and Hynek Roubík. 2024. "The Use of Biofilter in Anaerobic Baffled Reactor to Improve Quality of Methane Concentration and Effluent as Liquid Organic Fertiliser," *Journal of Ecological Engineering*, 25(9), 226-234. <https://doi.org/10.1016/j.renene.2024.121519>.

POSTERS

- Energy Audit in Tofu Industry: Evidence from Indonesia. Poster. Presented at the Hybrid Conference. University of Hohenheim, Stuttgart, Germany. TROPENTAG 2021. <https://www.tropentag.de/2021/abstracts/posters/425.pdf>
- Water Consumption and Wastewater Produced in Tofu Industry: Evidence from Indonesia. TROPENTAG 2022. <https://biogas.czu.cz/en/r-19017-team-news/tropentag-2022.html>.

PROCEEDINGS

- Leaching of Potassium from Oil Palm Empty Fruit Bunch (OPEFB) Using Tapioca Wastewater. Proceedings of The International Conference Biomass (ICSB), Bandar Lampung, Lampung Province, Indonesia. 2019. <https://www.atlantispress.com/proceedings/icsb-19/125957476>