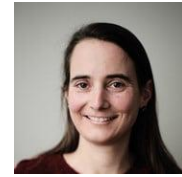


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Dr. Carine Lousselet is the research manager of the group of "Materials and Construction" that focuses on the development of building materials, their use in construction, their durability, and impact on the environment. Carine has more than 10 years of experience with holistic environmental assessments applied to different value chains. She thrives in evolving in an ecosystem of innovation where researchers, public authorities, entrepreneurs, business actors and investors are closely working together.

Education

2022 PhD in Industrial Ecology. "The use of LCA methods for evaluating and planning net-zero-emission neighbourhoods". Norwegian University of Science and Technology (NTNU). Norway.

2011 MSc in Industrial ecology. NTNU. Norway.

2007 BSc in Environmental Science and engineering. Ecole polytechnique de Lausanne (EPFL), Switzerland.

Current position

2022 – Research manager. Department of Architecture, Materials, and Structures. SINTEF AS. Norway.

Experience from relevant research & innovation activities

2024-2027. Sum4Re. Create materials banks from the built environment by combined urban mining and technologies for automated data acquisition, building materials identification, and asset components. Pilot in the Arctic, Svalbard. Project participant.

2023-2026 [Circular EPS](#). Developing products and services for establishing a circular value chain for the construction material EPS (expanded polystyrene), which is used for thermal insulation in buildings. The project is multidisciplinary including environmental assessments, business models, and circular construction engineering. Work package leader.

2021-2025 [Circular new buildings](#). Design and construction for dismantling and reuse” aims to ease and make it more affordable to build for future dismantling and reuse. Project participant.

2022-2023. Trondheim municipality's guide for greenhouse gas calculations in buildings and construction. Project leader.

2017-2024 [FME ZEN](#). Creating solutions for the zero emission buildings and neighbourhoods of the future together with public and industry partners and nine test areas («pilot projects»). Sub task leader.

Track record 15 publications in major national or international peer-reviewed journals and 6 peer-reviewed conference proceedings. Google scholar/Scopus Citations =885/577, h-index=14/11.

2023. Lousselet, C., Dahlstrøm, O.A., Thyholt, M., Eghbali, A., Schneider-Marin, P., Methods to Account for Design for Disassembly: Status of the Building Sector, Buildings. 13.1012.

2022. Lousselet, C., Rokseth, L.S., Lien, S.K., Bergsdal, H., Tønnesen, J., Brattebø, H., Sandberg, N.H., Geo-referenced building stock analysis as a basis for local-level energy and climate mitigation strategies, Energy and Buildings. 276

2020. Lousselet, C., J. P. F. Urrego, E. Resch, and H. Brattebø. Temporal analysis of the material flows and embodied greenhouse gas emissions of a neighborhood building stock. Journal of Industrial Ecology

Experiences from research communication, dissemination or outreach activities

2019. **Blog.** All you need to know about buildings to plan sustainable, green neighbourhoods.

2021. **Video.** Temporal analysis of the material flows and embodied greenhouse gas emission of gas emission of a (net) zero emission neighbourhood.

2019. **Exhibition.** FUTURUM “forward-looking exhibition focusing ‘the green shift’ and how we can approach the low-emission society towards 2050.