



# Josefin Lövdahl

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## Summary

Josefin Lövdahl is a PhD Student in the Sustainable Product Development research team in the Department of Strategic Sustainable Development at Blekinge Institute of Technology (BTH), Karlskrona, Sweden. Her research focus is on clarifying what to analyze and how sustainability should be measured in the early phases of the product innovation process to strategically support companies in their decision-making. Josefin has a M. Sc degree in Chemical Engineering and Sustainable Energy Systems from Chalmers University of Technology, Gothenburg, Sweden and experience from the automotive industry where she worked with development of internal combustion engines for heavy duty applications.

## Work Experience

- 2021 - Present     **PhD Student**  
Blekinge Institute of Technology  
Department of Strategic Sustainable  
Development
- 2019 - 2021        **Performance and Calibration Engineer**  
Volvo Technology AB  
Powertrain Engineering
- 2017 - 2018        **Vice president**  
Chalmers Student Union

## Education

- 2021 – Present     **Third cycle studies, Strategic Sustainable  
Development**  
Blekinge Institute of Technology
- 2016 – 2019        **M.Sc. in Chemical Engineering and Sustainable  
Energy Systems**  
Chalmers University of Technology  
Master thesis at IVL Svenska Miljöinstitutet.  
*Evaluation of Amonia as a Potential Marine Fuel,  
Modelling and assessment of alternative fuels for  
reducing GHG emissions from shipping.*
- 2013 - 2016        **B.Eng. in Chemical Engineering.**  
Chalmers University of Technology  
Bachelor thesis at Department of Chemistry and  
Chemical Engineering. *Analys av manganmalm*

## AREAS OF EXPERTISE

Sustainable Development;  
Chemical Engineering;  
Energy Technology;  
Combustion Engineering;  
Internal Combustion  
Engines

## LANGUAGE

Swedish  
English  
Spanish (basic)

## ADDITIONAL EDUCATION

3<sup>rd</sup> Cycle  
EU Taxonomy reporting  
Information Retrieval for  
PhD Students

2<sup>nd</sup> Cycle  
Foundation of Strategic  
Sustainable Development;  
Design of industrial energy  
equipment;  
Sustainable  
Transportation;  
Sustainable Energy  
Futures;  
Gas Turbine Technology

*efter användning som bäddmaterial i  
Chalmerspannan*

## Projects

2021 - 2023

### **Digital Sustainability Implementation Package (DSIP)**

Building on close collaboration between 16 partners, this VINNOVA-funded project aims to enable a strategic sustainability approach early in the product innovation process through a digital support package.

## Publications

Lövdahl, J. Magnusson, M. (2019). Evaluation of Ammonia as a Potential Marine Fuel. Master thesis in Sustainable Energy Systems. Department of Mechanics and Maritime Technology, Chalmers University of Technology: Gothenburg, Sweden. <https://hdl.handle.net/20.500.12380/302253>