

# PROSPECTIVE LCA NETWORK

Shaping Prospective LCA Methodologies

## Next Online Webinar:

### Time:

September 18, 2025,  
13:30 – 15:00 GMT+1

### Topic:

Linking Prospective LCA and Absolute  
Environmental Sustainability Assessment  
(AESAs)

### Presenters:

- Caroline Amalie Clausen
- Felix Pollet
- Bastien Pais
- Michael Lejeune

### Register:

<https://forms.wix.com/f/7269624128825458810>

Follow our LinkedIn for  
updates:

<https://www.linkedin.com/groups/12745162/>

## Survey on Practice of Prospective LCA

Aude Marie Bechu, Heather Logan, Nils Thonemann, Anne van den Oever, Rickard Arvidsson, Massimo Pizzol, Stefano Cucurachi, Bernhard Steubing, and Alexis Laurent are leading a survey to identify the current practices of prospective LCA practitioners like you!

They need input from prospective LCA practitioners in academia, consultancy, industry, and policy alike to understand how practitioners actively apply prospective methodologies, what common tools and approaches are employed, and where there are gaps or needs to develop new tools and approaches.

You can participate by copying this link:

<https://www.survey-xact.dk/LinkCollector?key=1KGUX3T7UK3N>

Please feel free to share it with any students, collaborators, or co-workers who you know are practicing PLCA.

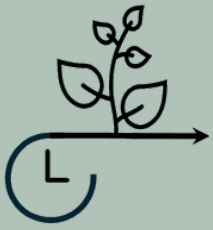
Depending on your practice, the survey can take 15-30 minutes to complete.

The survey will be open until September 1<sup>st</sup>, 2025.

Please reach out with any questions!

Aude Bechu ([aube@dtu.dk](mailto:aube@dtu.dk))

Heath Logan ([healo@dtu.dk](mailto:healo@dtu.dk))



# Call for Submissions

IJLCA Collection on Prospective LCA

## Where:

The International Journal of Life Cycle Assessment

## Submission deadline:

30 November 2025

## Link:

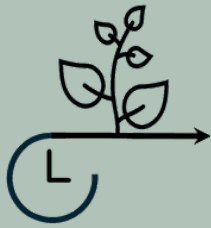
<https://link.springer.com/collections/jggjfdighb>

## What:

As technological innovation accelerates, Prospective LCA plays a crucial role in shaping sustainable solutions before large-scale deployment. However, key challenges remain, such as:

- How can we obtain relevant background data that accurately reflects potential future developments?
- How should we develop Prospective Life Cycle Impact Assessment (LCIA) methods to capture evolving impacts?
- How do we scale prospective LCA from lab-scale technologies to industry-wide applications?
- How can we effectively communicate results to decision-makers, ensuring relevance and actionability?

We welcome methodological advancements, case studies, reviews, and critical perspectives. If you're working on Prospective LCA, submit your work and help advance the field!



# Recent Literature

## Prospective LCA Network

Bruhn, S., Sacchi, R., Horup, L., Zindel, A., & Birkved, M. (2025). Historical and future LCA insights on tiny houses vs conventional housing typologies in Denmark. *Energy and Buildings*, 116172. <https://doi.org/10.1016/j.enbuild.2025.116172>

Cooper, J., & Hawkes, A. (2025). A life cycle assessment study of UK decarbonised ammonia, cement, methanol and steel for emission insetting. *Sustainable Production and Consumption*, 56, 311-327. <https://doi.org/10.1016/j.spc.2025.04.005>

De Bortoli, A., Chanel, A., Chabas, C., Greffe, T., & Louineau, E. (2025). More rationality and inclusivity are imperative in reference transition scenarios based on IAMs and shared socioeconomic pathways - recommendations for prospective LCA. *Renewable and Sustainable Energy Reviews*, 222, 115924. <https://doi.org/10.1016/j.rser.2025.115924>

Fozer, D., Owsianiak, M., & Hauschild, M. Z. (2025). Prospective life cycle assessment of solid recovered fuel utilization and marine fuel production in cement plants. *Sustainable Production and Consumption*, 55, 117-131. <https://doi.org/10.1016/j.spc.2025.02.012>

Georgiades, M., Özcan Kilcan, C., Giels, M. et al. Ex ante life cycle assessment of bauxite residue vitrification technology. *Int J Life Cycle Assess* (2025). <https://doi.org/10.1007/s11367-025-02512-0>

Ijeoma, M.W., Chukwu, B.N., Yakubu, R.O. et al. A comparative and prospective life cycle assessment of agricultural fruit wastes disposal: A case study. *Int J Life Cycle Assess* (2025). <https://doi.org/10.1007/s11367-025-02499-8>

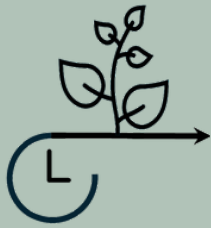
Maes, B., Audenaert, A., Craeye, B., & Buyle, M. The future of cement: Technological innovation in representative concentration pathways. *Journal of Industrial Ecology*. <https://doi.org/10.1111/jiec.70007>

Poulsen, L. K., Skov, I. R., Elliot, T., & Løkke, S. (2025). Life cycle assessment of Power-to-X integration in renewable energy systems. *Journal of Cleaner Production*, 513, 145713. <https://doi.org/10.1016/j.jclepro.2025.145713>

Roy, S., Moustafa, H., Vaidya, K., Harvey, J., & Fradette, L. (2025). Improving process granularity of life cycle inventories for battery grade nickel. *Npj Materials Sustainability*, 3(1), 1-16. <https://doi.org/10.1038/s44296-025-00059-7>

Šimaitis, J., Lupton, R., Vagg, C., Butnar, I., Sacchi, R., & Allen, S. (2025). Battery electric vehicles show the lowest carbon footprints among passenger cars across 1.5–3.0 °C energy decarbonisation pathways. *Communications Earth & Environment*, 6(1), 1-12. <https://doi.org/10.1038/s43247-025-02447-2>

van der Meide, M., Heijungs, R., Guinée, J. et al. Contribution analysis in LCA: an overview of approaches and when to apply them. *Int J Life Cycle Assess* (2025). <https://doi.org/10.1007/s11367-025-02487-y>



# Upcoming Events

Prospective LCA Network

## LCM 2025:

Palermo, IT

9-12 September 2025

<https://www.lcm2025.org/>

## Brightcon 2025:

Gernoble, FR

13-17 October 2025

The Brightcon conference is hybrid, if you would like to host a satellite site for your team or institution, please contact: [info@d-d-s.ch](mailto:info@d-d-s.ch)

Do you have an article or report you'd like to recommend to others in our network? Have you or a colleague recently released a study that you'd like to share? Is there an upcoming course that your team is offering? Have you discovered a course that you believe would be beneficial for other members to join? Are there any upcoming conferences featuring Prospective LCA sessions that you know about?

Please send your suggestions to us at:

[prospectivelcanetwork@gmail.com](mailto:prospectivelcanetwork@gmail.com)

Or, feel free to share in our LinkedIn group, and we will include your recommendations in the next newsletter.