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Electrical Engineering and Power Electronics  
MOBI - Electromobility research centre  
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## Employment

### Scientific employee

Electrical Engineering and Power Electronics  
Vrije Universiteit Brussel  
Brussels, Belgium  
12 Mar 2024 → 31 Dec 2024

### MOBI - Electromobility research centre

Vrije Universiteit Brussel  
Brussels, Belgium  
4 May 2020 → present

### PhD, Faculty of Engineering

Vrije Universiteit Brussel  
Brussels, Belgium  
4 Feb 2020 → present

## Research outputs

### Revisiting the challenges of ozone depletion in life cycle assessment

Van Den Oever, A., Puricelli, S., Costa, D., Thonemann, N., Lavigne Philippot, M. & Messagie, M., Jun 2024, In: *Cleaner Environmental Systems*. 13, June 2024, 15 p., 100196.

### Reducing the environmental impacts of passenger cars: a comparison between electricity and biofuels

Puricelli, S., Casadei, S., Bellin, T., Cardellini, G., Cernuschi, S., Costa, D., Faedo, D., Lonati, G., Rigamonti, L., Rossi, T., van den Oever, A. E. M., Messagie, M. & Grosso, M., 13 Dec 2023, *TRA Lisbon 2022 Conference Proceedings Transport Research Arena, 14th-17th November 2022, Lisboa, Portugal*. de Picado Santos, L., Pinho de Sousa, J. & Arsenio, E. (eds.). Vol. 72. p. 1388-1395 8 p. (Transportation Research Procedia).

### Prospective life cycle assessment of alternatively fueled heavy-duty trucks

Van Den Oever, A., Costa, D. & Messagie, M., 15 Apr 2023, In: *Applied Energy*. 336, 12 p., 120834.

### Assessment of the Climate Change and Metal Depletion Impacts of a Cobalt Fischer–Tropsch Catalyst with Prospective Life Cycle Assessment

van den Oever, A. E. M., Mesquita Bordalo Costa, D., Messagie, M., Caetano, N. S. (ed.) & Felgueiras, M. C. (ed.), 2023, *The 9th International Conference on Energy and Environment Research: Greening Energy to Shape a Sustainable Future*. Caetano, N. & Carlos Felgueiras, M. (eds.). Springer Cham, p. 125-133 9 p. (Environmental Science and Engineering).

### **Prospective Life Cycle Assessment of REDIFUEL, an Emerging Renewable Drop-in Fuel**

van den Oever, A. E. M., Mesquita Bordalo Costa, D., Messagie, M., Caetano, N. S. (ed.) & Felgueiras, M. C. (ed.), 2023, *The 9th International Conference on Energy and Environmental Research: Greening Energy to Shape a Sustainable Future*. Caetano, N. & Carlos Felgueiras, M. (eds.). Springer Cham, p. 103-112 10 p. (Environmental Science and Engineering).

### **Systematic review on the energy conversion efficiency of biomass-based Fischer-Tropsch plants**

Van Den Oever, A., Mesquita Bordalo Da Costa, D., Messagie, M. & Cardellini, G., 15 Sep 2022, In: *Fuel*. 324, 124478.

### **Prospective Life Cycle Assessment of a Cobalt Fischer-Tropsch Catalyst**

Van Den Oever, A., Messagie, M. & Mesquita Bordalo Da Costa, D., 2022, (Unpublished).

### **Lessons learned from a review on the energy efficiency of Fischer-Tropsch fuels**

Van Den Oever, A., Messagie, M., Cardellini, G. & Mesquita Bordalo Da Costa, D., 6 Dec 2021, (Unpublished).

### **Life cycle environmental impacts of compressed biogas production through anaerobic digestion of manure and municipal organic waste**

Van Den Oever, A., Cardellini, G., Messagie, M. & Sels, B., 15 Jul 2021, In: *Journal of Cleaner Production*. 306, 127156.

### **Application of ex-ante LCA strategies to construct an LCI of REDIFUEL, a novel biofuel**

Van Den Oever, A., Mesquita Bordalo Da Costa, D. & Messagie, M., 3 May 2021, (Unpublished).

### **A review on biofuels for light-duty vehicles in Europe**

Puricelli, S., Cardellini, G., casadei, faedo, Van Den Oever, A. & grosso, Mar 2021, In: *Renewable and Sustainable Energy Reviews*. 137, 2021, 19 p., 110398.

## **Activities**

### **Red de planeet met wat je eet**

Anne Van Den Oever (Speaker)  
20 Sep 2022

### **Red de planeet met wat je eet**

Anne Van Den Oever (Speaker)  
3 May 2022

### **Prospective LCA network (External organisation)**

Anne Van Den Oever (Chair)  
2022 → ...

## **Prizes**

### **Best oral presentation award - Session 3B**

Van Den Oever, Anne (Recipient), 2022

### **Best paper award - Environment**

Van Den Oever, Anne (Recipient), Mesquita Bordalo Da Costa, D. (Recipient) & Messagie, Maarten (Recipient), 2022

### **Best Young Biomass Researchers Award World Sustainable Energy Days 2021**

Van Den Oever, Anne (Recipient), Jun 2021

**Grant for participation in a conference abroad**  
Van Den Oever, Anne (Recipient), 3 Jul 2024

## **Projects**

**EU574: REDIFUEL: Robust and Efficient processes and technologies for Drop In renewable FUELS for road transport.**

Coosemans, T., Messagie, M., Van Mierlo, J., Van Den Oever, A., Arapoglou, S. & Vranckx, A.

European Commission

1/10/18 → 31/01/22