



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Malene Nielsen**

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Mobile:

E-mail mn@envs.au.dk

Nationality Danish

Date of birth 170469

Gender Female

Occupational field

Air emission inventories for stationary combustion reported to the UNECE Convention on Long Range Transboundary Air Pollution, the UN Framework Convention on Climate Change, the EU Monitoring Mechanism and the NEC Directive.

Work experience

Dates 2001 onwards

Occupation or position held Special Consultant (2018 onwards)
Academic associate (2001 – 2018)

Main activities and responsibilities

- Emission inventories for the Danish stationary combustion plants, aggregation and reporting to the UNECE Convention on Long Range Transboundary Air Pollution, the UN Framework Convention on Climate Change, the EU Monitoring Mechanism and the NEC Directive.
- The Danish IPCC Reference approach, aggregation and reporting.
- Key category analysis for the Danish greenhouse gas emission inventory.
- Greenhouse gas indicators reported to the EU Commission under the Greenhouse Gas Monitoring Mechanism.
- Comparison of CRT data and EU ETS reporting reported under the Greenhouse Gas Monitoring Mechanism.
- Accounting for differences between CRT and the Eurostat energy statistics reported under the Greenhouse Gas Monitoring Mechanism.
- Projection of greenhouse gases from stationary combustion
- Projection of air pollutants from stationary combustion

Name and address of employer Department of Environmental Science, Aarhus University, Frederiksborgvej 399, DK-4000 Roskilde, Denmark

Dates 1995 – 1999

Occupation or position held Project engineer

Main activities and responsibilities

- Consultancy concerning gas fuelled CHP plants and emissions.
- Emission measurements.
- Aggregation of national emission factors for gas engines.

Name and address of employer Danish Gas Technology Centre, Dr. Neergaards Vej 5B, DK-2970 Hørsholm, Denmark

Education and training

Dates 1990 -1994

Title of qualification awarded B.Sc. Mechanical Engineering

Principal subjects/occupational skills covered
Mechanical engineering
Energy production plants
Thermodynamics

Name and type of organisation
providing education and training

Engineering College of Aarhus, Denmark

**Personal skills and
competences**

Mother tongue(s)

Danish

Other language(s)

English, German

Self-assessment

European level ()*

English

German

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
UK	B2		C1		B1		B1		B2
DE	A1		A2		A1		A1		A1

(*) [Common European Framework of Reference for Languages](http://europa.eu/curriculum/curriculum.htm)

Selected publications

For a complete list of publications, please see: <http://pure.au.dk/portal/en/mn@envs.au.dk>

Selected publications:

Nielsen, O.-K., Plejdrup, M.S., Winther, M., Nielsen, M., Gyldenkerne, S., Mikkelsen, M.H., Albrektsen, R., Hjelgaard, K., Fauser, P., Bruun, H.G., Levin, L., Callisen, L.W., Andersen, T.A., Johannsen, V.K., Nord-Larsen, T., Vesterdal, L., Stupak, I., Scott-Bentsen, N., Rasmussen, E., Petersen, S.B., Baunbæk, L., & Hansen, M.G. 2025. Denmark's National Inventory Document 2025. Emission Inventories 1990-2023 - Submitted under the United Nations Framework Convention on Climate Change and the Paris Agreement. Aarhus University, DCE – Danish Centre for Environment and Energy, 929 pp. Scientific Report No. 655

Nielsen, O.-K., Plejdrup, M.S., Winther, M., Mikkelsen, M.H., Nielsen, M., Gyldenkerne, S., Fauser, P., Albrektsen, R., Hjelgaard, K.H. & Bruun, H.G. 2025. Annual Danish Informative Inventory Report to UNECE. Emission inventories from the base year of the protocols to year 2023. Aarhus University, DCE – Danish Centre for Environment and Energy, 645 pp. Scientific Report No. 651

Nielsen, O.-K., Plejdrup, M.S., Winther, M., Hjelgaard, K., Nielsen, M., Mikkelsen, M.H., Albrektsen, R. & Gyldenkerne, S., 2022. Projection of greenhouse gases 2021-2040. Aarhus University, DCE – Danish Centre for Environment and Energy, 131 pp, Scientific Report No. <https://dce2.au.dk/pub/SR505.pdf>

Nielsen, M. 2021. Danish emission inventories for stationary combustion plants. Inventories until 2018. Aarhus University, DCE – Danish Centre for Environment and Energy, 280 pp. Scientific Report No. 424 <http://dce2.au.dk/pub/SR424.pdf>

Nielsen, O.-K., Nielsen, M. & Plejdrup, M.S., 2021. Updating the emission model for residential wood combustion. Aarhus University, DCE – Danish Centre for Environment and Energy, 85 pp. Scientific Report No. 442. <http://dce2.au.dk/pub/SR442.pdf>

Nielsen, O.-K., Plejdrup, M.S., Winther, M., Gyldenkerne, S., Thomsen, M., Nielsen, M., Mikkelsen, M.H., Albrektsen, R., Hjelgaard, K. & Bruun, H.G. 2020. Quality manual for the Danish greenhouse gas inventory. Version 3. Aarhus University, DCE – Danish Centre for Environment and Energy, 44 pp. Scientific Report No. 406 <http://dce2.au.dk/pub/SR406.pdf>

Nielsen, O.-K., Plejdrup, M. S., Winther, M., Nielsen, M., Fauser, P., Mikkelsen, M. H., Albrektsen, R., Hjelgaard, K., Hoffmann, L., Thomsen, M. & Bruun, H. G., 2014, Danish emission inventory for hexachlorobenzene and polychlorinated biphenyls, Aarhus University, DCE - Danish Centre for Environment and Energy. 65 p. (Scientific Report from DCE - Danish Centre for Environment and Energy; No. 103).

Nielsen, M., Nielsen, O.-K. & Thomsen, M. 2010: Emissions from decentralised CHP plants 2007 - Energinet.dk Environmental project no. 07/1882. Project report 5 – Emission factors and emission inventory for decentralised CHP production. National Environmental Research Institute, Aarhus University. 113 pp. – NERI Technical report No. 786. <http://www.dmu.dk/Pub/FR786.pdf>.

Fauser P, Nielsen M, Winther M, Plejdrup MS, Gyldenkerne S, Mikkelsen MH, Albrektsen R, Hoffmann L, Thomsen M, Hjelgaard K, Nielsen O-K. 2013. Verification of the Danish greenhouse gas key categories and annex II indicators. Greenhouse Gas Measurement & Management. 3(3-4):107-127. <https://doi.org/10.1080/20430779.2013.870022>

Fauser P, Sørensen PB, Nielsen M, Winther M, Plejdrup MS, Hoffmann L, Gyldenkerne S, Mikkelsen MH, Albrektsen R, Lyck E, Thomsen M, Hjelgaard K, Nielsen O-K. 2011. Monte Carlo (Tier 2) Uncertainty Analysis of Danish Greenhouse Gas Emission Inventory. Greenhouse Gas Measurement & Management. 1(3/4):145-161. <https://doi.org/10.1080/20430779.2011.621949>

Kristensen, P.G., Jensen, J., Nielsen, M. & Illerup, J.B., 2004: Emission factors from gas fired CHP units < 25 MW. Danish Gas Technology Centre, National Environmental Research Institute. Presented at the International Gas Research Conference, Vancouver November 2004

Contributing author to the 2013 edition of the EMEP/EEA air pollutant emission inventory Guidebook.