

PERSONAL INFORMATION

Miet Van Dael



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Sex Female | Date of birth 23/06/1987 | Nationality Belgian

WORK EXPERIENCE

January 2015 - Onwards

Post-Doctoral Researcher Environmental Economics

Hasselt University – Diepenbeek (Belgium)

- Techno-economic evaluation of biorefineries and CCU technologies
- Supervision of PhD and masterstudents

Business or sector University

September 2013 - Onwards

Researcher biobased economy

VITO (Flemish Institute for Technological Research) - Mol (Belgium)

- Techno-economic evaluation of biorefineries, CCU technologies and green chemistry

Business or sector Research organization

September 2010 – December 2014

PhD Environmental Economics

Hasselt University – Diepenbeek (Belgium)

- Location determination
- Techno-economic evaluation of biorefineries
- Perception of biomass

Business or sector University

February 2009 – May 2010

Master Thesis

Umicore – Olen (Belgium)

- Financial implications of emission standards for industrial waste water

Business or sector Metallurgy

August 2007 – December 2008

Traineeship

Umicore – Olen (Belgium)

- Investigating the potential of copper recycling

Business or sector Metallurgy

EDUCATION AND TRAINING

2010 - 2014

PhD Environmental Economics

Hasselt University – Diepenbeek (Belgium)

- Location determination
- Techno-economic evaluation of biorefineries
- Perception of bioenergy

2005 - 2010 **Business engineer – Technology, Innovation and Environmental Management**

Hasselt University – Diepenbeek (Belgium)

- Economics (e.g. investment analysis, financial analysis, econometrics, statistics)
- Basic technology principles
- Sustainability analysis
- Innovation

PERSONAL SKILLS

Mother tongue(s) Dutch

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	(C1) Proficient user	(C1) Proficient user	(C1) Proficient user	(C1) Proficient user	(C1) Proficient user
French	(B1) Independent user	(B1) Independent user	(A1) Basic user	(A1) Basic user	(A1) Basic user
German	(B1) Independent user	(B1) Independent user	(A1) Basic user	(A1) Basic user	(A1) Basic user

Communication skills

- Working on several national and international projects with several partners and joining network events gave me the opportunity to develop good communication skills.
- By supervising bachelor/master students, PhD students, and trainees I have developed good coaching skills.
- I have experience with writing reports, scientific papers and project proposals (MIP, INTERREG, IWT, H2020, ...).

Organisational / managerial skills

- I followed courses on project and time management.
- I have experience with organising stakeholder events, e.g. the ‘do-tank biomass’ in the province of Limburg where experts on the biobased economy are gathered.
- I have experience with coordinating projects.

Job-related skills

- In my current job I mainly perform techno-economic evaluations of biobased processes and CCU technologies. The results are published as reports and scientific papers.
- I regularly update my field-related knowledge and expand my professional network by participating in study days and courses.
- I regularly give guest lectures on the biobased economy (for both students and experts) and am a co-responsible for the master course “Innovation management and case studies in TIM” at the Hasselt University
- I regularly review scientific papers for different journals (Biofpr, Renewable energy, Energy and fuels, Waste and biomass valorization,...).

Digital competence

- Good command of Microsoft Office™ tools (Word™, Excel™, Visio™ and PowerPoint™)
- Good command of SPSS (Statistical Program)
- Good command of Crystal Ball (Decision optimizer)
- Good command of PLS-SEM (Statistical Program)

Other skills

- I followed courses on Photography.
- During my studies I was a member of AIESEC (international student organisation).

Driving licence

B

ADDITIONAL INFORMATION

Publications

- Van Dael, Miet; Lizin, Sebastien; Swinnen, Gilbert & Van Passel, Steven (2017) Young people's acceptance of bioenergy and the influence of attitude strength on information provision. In: Renewable Energy.
- Van Dael, Miet (2014) Biomass: hot or not? Extended techno-economic assessment of Energy Conversion Parks. PhD dissertation.
- Van Dael, Miet; Kuppens, Tom; Lizin, Sebastien & Van Passel, Steven (2014) Techno-economic assessment methodology for Ultrasonic Production of Biofuels. In: Fang, Zhen; L. Smith jr, Richard; Qi, Xinhua (Ed.). Production of Biofuels and Chemicals with Ultrasound, p. 317-345. Biofuels and Biorefineries, 4.
- Van Dael, Miet; Márquez, Nathalie; Reumerman, Patrick; Pelkmans, Luc; Kuppens, Tom & Van Passel, Steven (2014) Development and techno-economic evaluation of a biorefinery based on biomass (waste) streams – case study in the Netherlands. In: Biofuels, bioproducts & biorefining, 8, p. 635-644.
- Van Dael, Miet; Van Passel, Steven; Pelkmans, Luc; Guisson, Ruben; Reumerman, Patrick; Marquez Luzardo, Nathalie; Witters, Nele & Broeze, Jan (2013) A techno-economic evaluation of a biomass energy conversion park. In: Applied energy, 104, p. 611-622.
- Van Dael, Miet; Van Passel, Steven; Pelkmans, Luc; Guisson, Ruben; Reumerman, Patrick; Marquez Luzardo, Nathalie; Witters, Nele & Broeze, Jan (2013) Techno-economische evaluatie van een biomassa-energieconversiepark. In: Nieuwsbrief Milieu & Economie, p. 1-4
- Van Dael, Miet; Van Passel, Steven; Pelkmans, Luc; Guisson, Ruben; Swinnen, Gilbert & Schreurs, Eloi (2012) Determining potential locations for biomass valorization using a macro screening approach. In: Biomass & bioenergy, 45, p. 175-186.

For full overview of publications: <https://uhdSPACE.uhasselt.be/dSPACE/report?type=author&id=2311>

Presentations

- Devriendt, Nathalie; Van Dael, Miet; Kreps, Sabine; Virag, Ana; Kessels, Kris; De Wilde, Fabian; Vaes, Jan & Bosmans, Koen (2016) The Potential of Microbial Power-To-Gas - Case Study in Belgium. In: 24th European Biomass Conference & Exhibition, Amsterdam, 6-9 June 2016.
- Van Dael, Miet; Kuppens Tom; Swinnen, Gilbert; Devriendt, Nathalie & Van Passel, Steven (2015) Biomass Hot or Not? Analyzing the Public Perception of and Attitude towards Bio-Energy. In: 23rd European Biomass Conference and Exhibition, Vienna - Austria, 1-4 June 2015.
- Van Dael, Miet; Marquez Luzardo, Nathalie; Reumerman, Patrick; Pelkmans, Luc & Van Passel, Steven (2013) Development and techno-economic evaluation of a biorefinery based on biomass (waste) streams. In: II Iberoamerican Congress on Biorefineries, Jaén, Spain, 10-12 April 2013
- Van Dael, Miet; Broeze, Jan; Pelkmans, Luc; Devriendt, Nathalie; Pieper, Hannes; Guisson, Ruben; Cornelis, Erwin; Venselaar, Jan; Marquez-Luzardo, Nathalie; Vollaard, Pieter; Reumerman, Patrick; Coppoolse, Kristian; ten Berge, Han & Van Passel, Steven (2012) A techno-economic evaluation of an energy conversion park. In: 8th International Conference on Renewable Resources and Biorefineries, France, Toulouse, 4-6 June 2012.
- Van Dael, Miet; Witters, Nele; Guisson, Ruben & Van Passel, Steven (2012) Long-term phytoremediation using fodder maize: an integrated approach leads to economic synergies. In: 9th International Phytotechnology Society (IPS) conference, Hasselt, Belgium, 11-14 September 2012.
- Van Dael, Miet; Guisson, Ruben; Pelkmans, Luc & Van Passel, Steven (2011) A biomass energy conversion park for optimal exploitation of regionally available biomass resources. In: International Conference Forests 2011, Leuven, Belgium, November 23-24, 2011.

For full overview of presentations: <https://uhdSPACE.uhasselt.be/dSPACE/report?type=author&id=2311>

Projects

- EnOp (Interreg Flanders – South Netherlands): CO₂ for energy storage and usage (2016-2019)
- GBO (Interreg Flanders – South Netherlands): Inventory of the need for biobased education and the development of programs to fill the gap (2016-2019)
- MIP2G (MIP): Microbial conversion of H₂ and CO₂ to biomethane for injection into the natural gas grid (2014-2017)
- Biosorb (Tetra): Removal of the residual concentration of heavy metals from wastewater with activated biochar from biomass residue streams (2015-2017)
- ECP (Interreg Flanders – South Netherlands) “Energy Conversion Park for the conversion of local biomass residue streams (2010-2013)