

MARIËSSE VAN SLUISVELD

Dr. Mariësse van Sluisveld is a researcher with extensive knowledge of energy and climate policy assessment in line with global climate agreements. She has expertise in quantitative computational modelling, scenario and data analysis and data visualization. Her specialty is defining and testing the plausibility of quantitative scenarios and metrics on systems change.



EDUCATION

- 2017
|
2012

 - **PhD Macro-energy systems and future change**
Utrecht University & PBL Netherlands Environmental Assessment Agency  Utrecht/ Bilthoven, The Netherlands
 - Thesis title: “2C through different lenses”
 - **MSc Environmental Sciences**
Utrecht University  Utrecht, The Netherlands
 - Thesis title: Paradox in Packaging Optimization
 - **BSc Environmental Sciences**
Utrecht University  Utrecht, The Netherlands
 - Thesis title: Olivine: The underdog in climate mitigation

2011
|
2009

2009
|
2006

RESEARCH EXPERIENCE

- | | |
|--------------------------|---|
| current

1/1/2020 | <ul style="list-style-type: none">● Researcher Industry Decarbonization
Lund University 📍 Lund, Sweden<ul style="list-style-type: none">• Developing decarbonization pathways for carbon intensive industries in Europe● Researcher Climate and Energy
PBL Netherlands Environmental Assessment Agency 📍 The Hague, The Netherlands<ul style="list-style-type: none">• Working on decarbonization strategies for heavy industry under the auspices of the European Union funded H2020 REINVENT project |
| 2019

2017 | |

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CONTACT INFO

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ONLINE VENUES

-  [mariesevansluisveld/](https://www.linkedin.com/in/mariesevansluisveld/)
 marieyesse.github.io
 twitter.com/marieyesse
 github.com/marieyesse
 [ORCID](#), Google Scholar
 [Impactstory](#)

SKILLS

- ★ ★ ★ Scenario evaluation
 - ★ ★ ★ Data analytics
 - ★ ★ ★ Science Communication
 - ★ ★ ★ Event planning
 - ★ ★ ★ R, HTML, CSS

LANGUAGES

- A row of four dark gray star icons, each accompanied by a language name: Dutch, English, German, and French.

2016
|
2014

- **Researcher Climate and Energy**

PBL Netherlands Environmental Assessment Agency
📍 Bilthoven, The Netherlands

- Working on long-term implications of diverging actor behaviours on meeting the 2C climate objective under the auspices of the European Union FP-7 funded PATHWAYS project

2014
|
2012

- **Junior Researcher Global Change Modelling**

Utrecht University
📍 Utrecht, The Netherlands

- Working on regional decarbonization strategies in line with the 2C climate objective under the auspices of the European Union funded FP-7 LIMITS and AMPERE projects



EXTRACURRICULAR

current
|
2019

- **Member of the scientific working group on Evaluation and Diagnostics**

Integrated Assessment Modelling Consortium
📍 International

- The SWG Evaluation and Diagnostics fosters activities that help describe, document and understand the performance of integrated assessment models.

2019
|
2017

- **PBL Academy**

PBL Netherlands Environmental Assessment Agency
📍 The Hague, The Netherlands

- PBL Academy is the organisation at PBL that develops trainings and organizes events and lectures around the interface between science and policy

2016
|
2014

- **Board member PBL Young**

PBL Netherlands Environmental Assessment Agency
📍 Bilthoven, The Netherlands

- PBL Young is the young department at PBL representing the interest and development of young employees at PBL

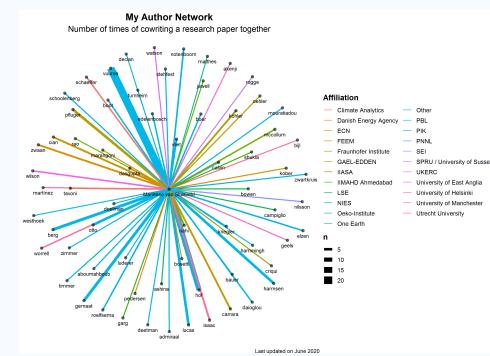
2014
|
2013

- **Board member YES-DC**

📍 Utrecht, The Netherlands

- YES-DC is the Young Professionals network on Energy & Development Cooperation

NOTE: I have collaborated with many researchers in the field of energy modelling, innovation science and social science (See the full view of my author network below)*



Several studies have also been picked up in more popular writing and policy relevant reports:

- ✓ Sluisveld et al (2018) in [Carbon Brief](#)
- ✓ Sluisveld et al (2018) in [EnergiePodium](#)
- ✓ Sluisveld & Worrell in [IPCC AR5](#)



RESEARCH PAPERS

- 2020
- Aligning integrated assessment modelling with socio-technical transition insights: An application to low-carbon energy scenario analysis in Europe
Technological Forecasting and Social Change Cited: 17x
 - MAE van Sluisveld, AF Hof, S Carrara, FW Geels, M Nilsson, K Rogge, ...
- 2020
- Actors, decision-making, and institutions in quantitative system modelling
Technological Forecasting and Social Change Cited: 10x
 - E De Cian, S Dasgupta, AF Hof, MAE van Sluisveld, J Köhler, B Pfluger, ...
- 2020
- From global to national scenarios: Bridging different models to explore power generation decarbonisation based on insights from socio-technical transition case studies
Technological Forecasting and Social Change Cited: 3x
 - AF Hof, S Carrara, E De Cian, B Pfluger, MAE van Sluisveld, HS de Boer, ...
- 2020
- A European industrial development policy for prosperity and zero emissions
ECEEE 2020 Under review
 - Nilsson, L.J., Ahman, M., Andersson, F.N.G., Bataille, C., Bauer, F., De La Rue de Can, S., Ericsson, K., Hansen, T., Johansson, B., Lechtenboehmer, S., Schiro, D., Van Sluisveld, M.A.E., Vogl, V.
- 2019
- Improved modelling of lifestyle changes in Integrated Assessment Models: Cross-disciplinary insights from methodologies and theories
Energy Strategy Reviews Cited: 1x
 - NJ van den Berg, AF Hof, L Akenji, OY Edelenbosch, MAE van Sluisveld, ...
- 2018
- Alternative pathways to the 1.5 C target reduce the need for negative emission technologies
Nature climate change Cited: 159x
 - DP van Vuuren, E Stehfest, DEHJ Gernaat, M Van Den Berg, DL Bijl, ...
- 2018
- Comparing future patterns of energy system change in 2° C scenarios to expert projections
Global environmental change Cited: 4x
 - MAE Van Sluisveld, MJHM Harmsen, DP Van Vuuren, V Bosetti, C Wilson, ...

- 2017 ● **Open discussion of negative emissions is urgently needed**
Nature energy  Cited: 59x
• DP Van Vuuren, AF Hof, MAE Van Sluisveld, K Riahi
- 2017 ● **Low-carbon strategies towards 2050: Comparing ex-ante policy evaluation studies and national planning processes in Europe**
Environmental Science & Policy  Cited: 3x
• MAE van Sluisveld, AF Hof, DP van Vuuren, P Boot, P Criqui, FC Matthes, ...
- 2016 ● **Exploring the implications of lifestyle change in 2 C mitigation scenarios using the IMAGE integrated assessment model**
Technological Forecasting and Social Change  Cited: 48x
• MAE van Sluisveld, SH Martínez, V Daioglou, DP van Vuuren
- 2015 ● **Post-2020 climate agreements in the major economies assessed in the light of global models**
Nature Climate Change  Cited: 132x
• M Tavoni, E Kriegler, K Riahi, DP Van Vuuren, T Aboumahboub, A Bowen, ...
- 2015 ● **Comparing future patterns of energy system change in 2 C scenarios with historically observed rates of change**
Global Environmental Change  Cited: 33x
• MAE van Sluisveld, JHM Harmsen, N Bauer, DL McCollum, K Riahi, ...
- 2015 ● **Impact of fragmented emission reduction regimes on the energy market and on CO₂ emissions related to land use: a case study with China and the European Union as first movers**
Technological Forecasting and Social Change  Cited: 18x
• SAC Otto, DEHJ Gernaat, M Isaac, PL Lucas, MAE van Sluisveld, ...
- 2015 ● **Impact of fragmented emission reduction regimes on the energy market and on CO₂ emissions related to land use: a case study with China and the European Union as first movers**
Technological Forecasting and Social Change  Cited: 18x
• SAC Otto, DEHJ Gernaat, M Isaac, PL Lucas, MAE van Sluisveld, ...

- 2013
- **The paradox of packaging optimization—a characterization of packaging source reduction in the Netherlands**
Resources, Conservation and Recycling Cited: 28x
• MAE Van Sluisveld, E Worrell
- 2013
- **A multi-model analysis of post-2020 mitigation efforts of five major economies**
Climate Change Economics Cited: 22x
• MAE Van Sluisveld, DEHJ Gernaat, S Ashina, KV Calvin, A Garg, M Isaac, ...
- 2013
- **Material efficiency in Dutch packaging policy**
Philosophical Transactions of the Royal Society A: Mathematical, Physical ... Cited: 10x
• E Worrell, MAE van Sluisveld

PRESENTATIONS & INVITED TALKS

- 2020-06-17
- **How to jump start industry decarbonization in the wake of the corona crisis?**
ECEEE/RENEW industry Zoom
• Discussion leader on the effects on “negative emissions”
- 2020-04-08
- **Futuring application: The mystique of crunching numbers**
Lund University Zoom
• Guest lecture for “FMIN05 Climate as science and politics” (Environmental and Energy Systems course)
- 2020-03-04
- **Lifestyle narratives in model-based scenarios**
The Green House Utrecht, The Netherlands
• Invited talk at the Storyworlds of Decarbonization seminar
- 2019-12-02
- **Comparing quantitative industry decarbonization perspectives towards 2050 for Europe**
Tsukuba International Congress Center Tsukuba, Japan
• Invited talk at the 12th Integrated Assessment Modeling Community 2019 meeting
- 2019-06-03
- **To invest in lock-in or in structural change? Analysis of decarbonization strategies for heavy industry**
UIC-P Espaces Congrès Paris, France
• Invited talk at the 38th International Energy Workshop 2019 meeting

NOTE: Here follows a list of performed research dissemination activities and further activities relating to gaining feedback from peers and the broader audiences.



(EUCalc Stakeholder Workshop @ Vienna)

In some cases I have been rewarded external funding to disseminate results:

✓ European Commissions & ICF travel funding for IAMC2019

- 2019-05-07
- ***Pathways & global sustainability science***
Utrecht University  Utrecht, The Netherlands
 - Invited guest lecture at the BSc Global Sustainability Science course 'Global Integration Project GEO2-2417'
- 2019-03-29
- ***Session: The time and speed of the transition and policy instruments to support the transition and local versus global participation***
NTNU  Trondheim, Norway
 - Invited talk at the Industry Decarbonization stakeholder workshop during the Energy Transition Week 2019
- 2018-11-29
- ***Industry decarbonization by 2050***
Representation of the State of North Rhine-Westphalia to the European Union  Brussels, Belgium
 - Poster Presentation REINVENT scenarios at the *Understanding Innovation Dynamics for Low-Carbon Transitions in Resource-Intensive Industries* stakeholder workshop
- 2018-07-10
- ***Scenarios for Decarbonising European Industries***
Haus der Industrie  Vienna, Austria
 - Invited talk at the European Calculator Expert Consultation
- 2016-11-22
- ***National energy roadmaps towards 2050 and model input for analysis***
European Environmental Agency (EEA)  Copenhagen, Denmark
 - Roundtable meeting
- 2015-11-16
- ***Comparing future patterns of energy system change in 2C scenarios with historically observed rates of change***
Seminaris SeeHotel  Potsdam, Germany
 - Invited talk at the 8th Annual Meeting of the Integrated Assessment Modeling Consortium
- 2015-11-16
- ***Comparing future patterns of energy system change in 2C scenarios with historically observed rates of change***
University of Sussex  Brighton, United Kingdom
 - Invited talk at the International Sustainable Transitions Conference 2015
- 2015-04-21
- ***The feasibility of alternative mitigation scenarios***
The Senate House  London, United Kingdom
 - Invited talk at the WholeSEM, BE4 workshop

- 2014-06-04
- ***The feasibility of technological change - preliminary results***
 - Xijiao Hotel Beijing, China
 - FP-7 LIMITS project meeting talk
- 2013-09-27
- ***The potential of lifestyle and lifestyle change in 2 degree scenarios - preliminary results***
 - IIASA Laxenburg, Austria
 - FP-7 LIMITS project meeting talk
- 2013-02-12
- ***A multi-model analysis of post-2020 mitigation efforts of five major economies***
 - The Royal Netherlands Academy of Arts and Sciences Amsterdam, The Netherlands
 - FP-7 LIMITS project meeting talk

EVENT PLANNING

- 2019-03-27
- ***Stakeholder workshop Heavy industry in climate change mitigation scenarios***
 - PBL Netherlands Environmental Assessment Agency The Hague, The Netherlands
 - 20 participants, organized on behalf of the H2020 project REINVENT, inviting stakeholders from CEFIC, VNP, World Steel Association, IEA, Fraunhofer-ISI, FfE, Wuppertal Institute
- 2018-11-15
- ***PBL Academy Lecture World Energy Outlook 2018***
 - PBL Netherlands Environmental Assessment Agency The Hague, The Netherlands
 - 200 participants, inviting Fatih Birol (IEA) & Dutch Minister of Economic Affairs and Climate Policy Eric Wiebes (Min EZK) to talk
- 2018-11-09
- ***IMAGE 3.2 advisory board meeting***
 - PBL Netherlands Environmental Assessment Agency The Hague, The Netherlands
 - With Jae Edmonds (PNNL), Bert Metz, Marcel Berk (Dutch Ministry of Economic Affairs and Climate Policy), Keywan Riahi (IIASA), Dolf Gielen (IRENA) and Rob Dellink (OECD) as part of the advisory committee, 16 participants

NOTE: I have also been very keen on bringing people and places together, to get some real-world insights on the subjects at hand. The following list elaborates on the platforms that I have helped to create.



(IEA WEO event 2018 @ PBL)

I have organized many of the activities under the banner of:

- FP7 and H2020 EU projects
- YES-DC (board 2013-2014)
- PBL Young (board 2014-2016)
- PBL Academy (commission 2018-2019)

2018-11-09

- **Symposium *Changes in the interaction between science and policy, focusing on the development of energy and climate sciences and the application of modelling tools***

PBL Netherlands Environmental Assessment Agency
📍 The Hague, The Netherlands

- inviting Jae Edmonds (PNNL), Leen Hordijk, Marcel Berk (Dutch Ministry of Economic Affairs and Climate Policy), Keywan Riahi (IIASA), Dolf Gielen (IRENA) and Rob Dellink (OECD) for a talk, (90 participants) PBL, Den haag

2016-06-10

- **PBL round table *Low-carbon energy scenarios in NW European countries***

Hotel Karel V
📍 Utrecht, The Netherlands

- Participants from UK (UKERC), Germany (Oko-Institut, Fraunhofer-ISI), France (UPMF Grenoble), Denmark (Danish Energy Agency), Belgium (Federal Planning Bureau), the Netherlands (PBL) and the European Commission, 21 participants

2015-04-01

- **Symposium *The road to Paris <U+o096> Climate Change Policy & Practice***

Academy Hall
📍 Utrecht, The Netherlands

- 65 participants, organized on behalf of Young Energy Specialists and Development Cooperation (YES-DC)

2015-04-01

- **Symposium *'Successes and failures in the dialogue between science and policy***

Leeuwenberg church
📍 Utrecht, The Netherlands

- 120 participants, organized by PBL Netherlands Environmental Assessment Agency for Leo Meyer

2014-11-15

- **Congress *The new world order - shifting geopolitics***

Academy Hall
📍 Utrecht, The Netherlands

- 60 participants, organized on behalf of Young Energy Specialists and Development Cooperation (YES-DC)

2013-11-19

- **Symposium *The role of materials in the energy transition***

Academy Hall
📍 Utrecht, The Netherlands

- 40 participants, organized on behalf of Young Energy Specialists and Development Cooperation (YES-DC)

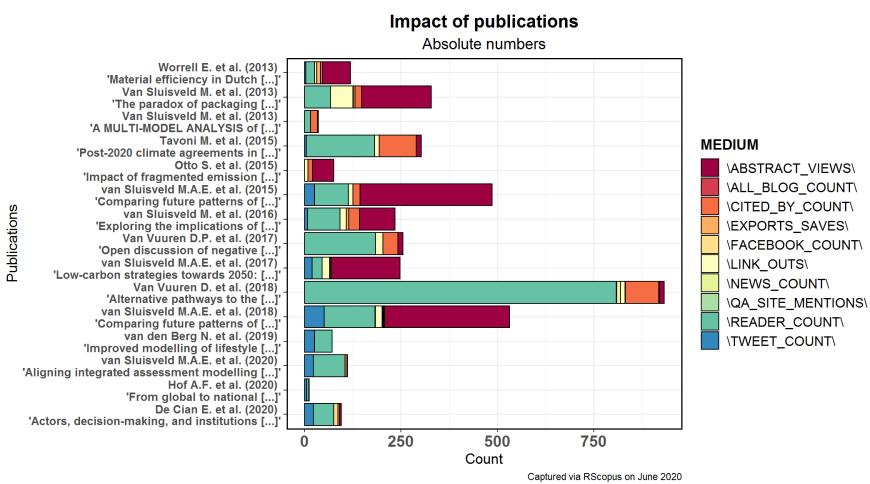
2012-09-25

- **Workshop *The feasibility of transitions in 2 degree scenarios***

Pietershof
📍 Utrecht, The Netherlands

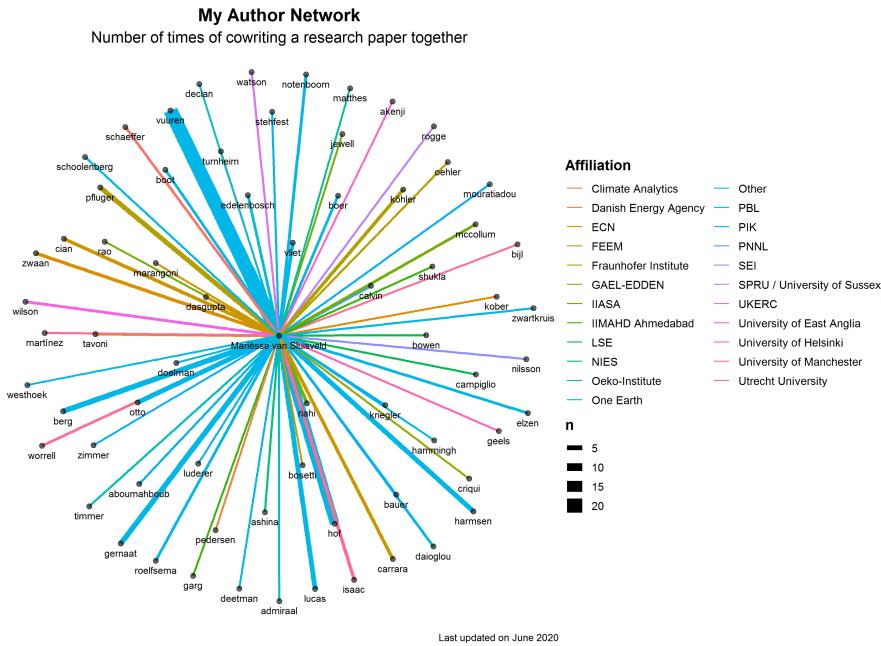
- 25 participants, organized on behalf of the FP-7 projects RESPONSES/LIMITS

↗ SCIENCE IMPACT



Publications

AUTHOR NETWORK



NOTE: I have enjoyed collaborating with 23 different kinds of research institutes all over the globe.