

# Curriculum Vitae Bart Wesselink

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I am Bart Wesselink, born in Dalfsen (the Netherlands) on 19 September 1964. I am happily married with Annet Roodenburg and we have 2 sons, Tim and Koen and 1 grandson. We live at Koppelweg 60, 3704 GJ in Zeist. You can reach me on my mobile number (06-52173250) or email ([bart@bwesselink.nl](mailto:bart@bwesselink.nl)).

## Short Biography

**My activities:** I am very experienced in leading major projects that integrate partial knowledge in the areas of environment, climate and energy. These projects helped governments, industry or NGO's to initiate, implement or evaluate policies. Off-work, I acted several years as chairman of the board of seven primary schools in my hometown Zeist. From 2010 until 2018, I chaired the elder board of the 'Oosterkerk' church in Zeist.

**My skills & competencies:** My curiosity has made me connect regularly to new topics, clients and networks. I find great pleasure in connecting with various audiences, including student classes. Presenting in an original, well balanced and therefore effective way is one of my key assets. My clients and colleagues characterize me as 'dedicated and cooperative team worker' with a 'creative and personal touch'. In my role as chairman I aim to contribute to transparent and forward looking organisations.

**My background:** I studied soil science at Wageningen Agricultural University (cum laude) and received a PhD degree on 'Long-term changes in the soil chemistry of European forests due to soil acidification'. The first one-and-half years of my PhD research I worked at the University of Göttingen in Germany. My use of the German language is still profiting from this period.

**My career:** At the National Institute of Public Health and the Environment (RIVM), the Netherlands Environmental Assessment Agency (PBL), Ecofys consultancy and the World Wide Fund for Nature (WWF Netherlands), my work has covered a wide variety of topics such as assessing the risks of re-use of waste materials, scenario modelling and policy evaluation and advice in areas such as soil, water, energy and 'cleantech' innovation. I took on different roles in my career: as specialized researcher, integrator of knowledge as well as stakeholder/lobbyist. Since 2014 I'm working as an independent advisor, researcher & teacher at Bart Wesselink | simplified sustainability. I work for NGOs, business, industry associations, governments and universities.

**Leisure:** Cycling and singing is my way of 'shutting down' and relaxing.

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## Professional career

- 2013 - Bart Wesselink | simplified sustainability (advisor, researcher, lecturer)
- 2011 – 2012 Senior climate & energy expert at World Wildlife Fund Netherlands (WNF)
- 2007 - 2011 Senior consultant at consultancy firm Ecofys Netherlands bv. (now: Guidhouse)
- 2005 – 2007 Programme manager 'European sustainability' at the Netherlands Environmental Assessment Agency, Netherlands ([www.pbl.nl](http://www.pbl.nl))
- 1993 – 2005 Researcher & project leader at the National Institute for Public Health and the Environment, Netherlands ([www.rivm.nl](http://www.rivm.nl))
- 1989 – 1993 PhD researcher at Wageningen University and the University of Göttingen (Germany)
- 1989 Researcher at Wageningen Agricultural University

## Education

- 1989 – 1993 PhD at Wageningen Agricultural University, Netherlands and University of Göttingen, Germany (Forschungszentrum für Waldökosysteme und Waldsterben)
- 1986 6 months traineeship at Cornell University, Ithaca, NY
- 1982 – 1988 MSc in Soil Science at Wageningen Agricultural University (cum laude).
- 1976 – 1982 Athenaeum at college Noetsele, Nijverdal

## Awards

- In February 2022 the TU/e study association Intermate awarded me two prizes: best teacher for first-year students of Sustainable Innovation and best new teacher.
- For my MSc thesis, I received the 'Hissink' price of the Dutch Soil Association (NBV).

## Other activities (selection)

- Member of ad hoc committee 'Energietransitie en werkgelegenheid'. Social and Economic Council (SER) (2018)
- I participated as an international expert and panellists on environmental sustainability in a series of forums organised throughout New Zealand by Morgan Williams, New Zealand's Parliamentary Commissioner for the Environment (<http://www.pce.parliament.nz/>) (2005)

## Off-work activities

- Member of advisory board of the company 3Devo ([www.3devo.com](http://www.3devo.com))
- Secretary of the board of (seven) protestant churches in Zeist (since June 2019)
- Chair of the elder board of the Oosterkerk in Zeist ([www.oosterkerkzeist.nl](http://www.oosterkerkzeist.nl)) (2010-2018)
- Member (chairman from 2003 on) of the board of seven Protestant primary schools in Zeist, the Netherlands ([www.cbozeist.nl](http://www.cbozeist.nl)). (1999-2007)

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## Key Assignments

### **Bart Wesselink |simplified sustainability (2013 – present)**

#### *Agenda setting | policy preparation*

- Developing a vision on a sustainable Dutch industry in 2050. Client: Milieudefensie (2022)
- Research into PAH-emissions from asphalt production plants in the Netherlands (in cooperation with Emission Care). Client: federation of Dutch asphalt producers (2021)
- Senior advisor at Dutch Association of Sustainable Energy (NVDE), the organization of entrepreneurs in sustainable energy in the Netherlands (2020, 2021)
- Developing a heat transition vision for the Municipality of Tilburg (in cooperation with Harmelink consulting): stakeholders interviews, data inventory and policy process design. Client: Municipality of Tilburg (2019/2020).
- Friends of the Earth (FoE, Milieudefensie) believes that only a *just* energy transition will gain the speed and scale needed to halt climate change. I supported FoE in mainstreaming their 'just' agenda. Our key success was full integration of this concept in the Dutch 'Climate Agreement' (Klimaatakkoord). In spring 2018 I organized and hosted a 3-day international 'Just Transition' conference. Client: Milieudefensie (mid-2017 until mid-2019, fulltime).
- The energy transition in the province of Utrecht: What is the state of affairs? Which energy agenda will provide a 10% growth of renewable energy by 2020? Client: Nature and Environment Federation Utrecht (2014).
- A 'heat roundabout' in the province of South Holland? Stakeholder interviews and preparation of a workshop with regional stakeholders. Client: Netherlands Environmental Assessment Agency, PBL (2017).

#### *Policy evaluation*

- Energy and climate policies of the municipality of Zandvoort: evaluation and outlook. Client: the court of audit ('Rekenkamer') of Zandvoort (2016).
- A new Dutch policy instrument for energy savings in firms, policy evaluation. Client: Dutch ministry of Infrastructure and Environment (2016).
- The home market as a key for successful export of Dutch cleantech. Client: the Netherlands Environmental Assessment Agency (2016).
- Assessing the impacts of global land degradation. Client: PBL (2017).
- Green gains of industrial biotechnology. Client: the Dutch National Institute of Public Health and the Environment, RIVM (2016).
- The transition to a bio-based and circular economy. How to stimulate high-value (re-)use of pure and non-toxic materials in the economy? Client: the National Institute of Public Health and the Environment, RIVM (2016).

#### *Teaching*

- BSc-course 'Industrial Ecology'. Coordination and teaching. Client: Technical University Eindhoven, TU/e (2021, 2022).

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- BSc-course 'Economics of innovation: an introduction'. Coordination and teaching. Client: Technical University Eindhoven, TU/e (2020, 2021).
- MSc-course 'Energy Modelling'. Development and teaching. Client: Radboud University Nijmegen (2019).
- Quantifying sustainability in the agri-food chain. I developed and taught two courses for the HAS Den Bosch University of Applied Sciences (2016).
- One day course 'quantifying sustainability' for an international group of professionals with different backgrounds. Client: Maastricht School of Management, MSM (2016).

## **At WWF (2011-2012)**

- At WWF I was responsible for implementation of their climate agenda. Activities included building a broad network with Dutch key players in Dutch energy transition: cleantech firms (solar, wind, grid management), financiers (venture capital investors, banks), policy makers, industrial federations and NGO's.
- On behalf of WWF I was member of the core team of the NGO's/green business coalition that played a key role in establishing the Dutch 'Energy Agreement' (Energie Akkoord, signed in September 2013).

## **At Ecofys (2007-2011)**

- Development of methodology for evaluating energy savings policies for industry. Client: the Institute for Industrial Productivity (IIP).
- Energy Savings 2020 study | Assessment of EU-wide required upfront investments for doubling energy savings. Client: the Regulatory Assistance Project (RAP).
- Energy Savings 2020 study. Client: the European Climate Foundation.
- NOx emissions trading (secondment at the ministry of VROM) | Technical support on EU emissions trading (EU-ETS)| Developing and leading a summer school on EU-ETS, for Dutch civil servants. Client: Dutch Ministry of Environment.
- Ex-ante evaluation of the impact of NOx & SO2 emissions trading on EU cement sector. Client: the European Cement Association (CEMBUREAU).
- Greenhouse gas emissions reductions potentials and costs | Development of EU-ETS phase-III allocation methodology. Client: the European Commission.
- Review of ETS allocation method developed by IFIEC. Client: the International Federation of Industrial Energy Consumers (IFIEC Europe).

## **At National Environment Assessment Agency (PBL and RIVM) (1993-2007)**

- Project leader Outstanding Environmental Issues (2004).
- Project leader Environmental Balance 2002 and 2003.

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## Presentations

### Selection

1. [Beelden voor 2040](#). Donderdag 23 juni 2022 organiseerde de NVDE het symposium 'Nu op weg naar een groen 2040', waar ook afscheid werd genomen van Teun Bokhoven, oprichter en zes jaar voorzitter van de NVDE. Op het symposium schetsten Marc Londo (NVDE) en Bart Wesselink (zelfstandig onderzoeker) een beeld van de belangrijkste kenmerken van het energiesysteem van 2040: Beelden voor 2040.
2. Wat is belangrijker: klimaatverandering of gezonde voeding? 10 mei 2019. HAS Den Bosch
3. Een rechtvaardig klimaatbeleid, Nederlandse ervaringen. Stichting Arbeid en Milieu, Brussel. 14 maart 2019.
4. Klimaatrechtvaardigheid. SP conferentie, 26 oktober 2018.
5. Evidence based scenarios for a just and inclusive energy transition. Presentation at the 10<sup>th</sup> annual national environmental congress. 11-13th december 2017, Benin City, Nigeria.
6. Synthetic biology for a sustainable production of oil and proteins from algae. Symposium: industrial biotechnology (Rathenau institute, iGEM and RIVM, 7 september 2015).

## Publications

### Recent

1. [Beelden voor 2040](#). Marc Londo en Bart Wesselink (2022) (officiële publicatie in voorbereiding)
2. Bouwstenen voor een industrievisie van Milieudefensie (2022) (vertrouwelijk)
3. PAK-emissies uit asfaltcentrales (2022). Emission Care & Bart Wesselink (vertrouwelijk)
4. Groene energie van eigen bodem [NVDE](#) (2020)
5. NVDE analyse concept Regionale Energiestrategieën. [NVDE](#) (2020)
6. Groen gas: [feiten en cijfers](#). NVDE (2020)
7. Startnotitie [Transitievisie Warmte](#) gemeente Tilburg (2020)
8. Wesselink, B., Pols, D., Oulahsen, F. (2018). Succesvol Klimaatakkoord vraagt gedurfde instrumenten. [ESB](#) Jaargang 103 (4768) 20 december 2018
9. [Klimaatdividend](#) voor Eerlijk Omschakelen (2018). Milieudefensie.
10. Eerlijke verdeling van [Lusten en Lasten](#) van het klimaatbeleid (2018). Milieudefensie.
11. Evidence supporting a [Just Energy Transition](#) (2018)
12. [Duurzaam Zandvoort](#). Analyse van het duurzaamheidsbeleid van de gemeente Zandvoort. Bart Wesselink & Mirjam Harmelink (2017)
13. Het belang van een thuismarkt voor de export van eco-innovaties – inzichten uit de praktijk (2016). [Beleidsrapport 2253](#). Planbureau voor de Leefomgeving. Alexander van Vooren en Bart Wesselink.
14. Het belang van een thuismarkt voor de export van eco-innovaties – inzichten uit de praktijk (2016). [Vijf essays](#): Veredeling van tuinbouwzaad en pootgoed; Technologie voor windenergie; Technologie voor waterzuivering; Zon-PV technologie; Technologie voor scheiding en verwerken van vast afval. Bart Wesselink en Alexander van Vooren.

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15. Evaluating the potential impact of the introduction of an energy performance assessment (EPK) in the Dutch industry (2016). Mirjam Harmelink, Bart Wesselink, Edwin Dalenoord. ([IEPPEC conference paper](#)).
16. [Green Deal EPK Pilot](#): Evaluatie van de negen pilotprojecten (2015). Bart Wesselink, Mirjam Harmelink, Edwin Dalenoord.
17. Website [www.metenvanduurzaamheid.nl](http://www.metenvanduurzaamheid.nl) (content and draft infographics)
18. Plastics met gevaarlijke stoffen: recyclen of verbranden? (2016) Janssen MPM, Spijker J, Lijzen JPA, Wesselink LG. [RIVM Rapport 2015-0163](#).

## 2011-2013<sup>1</sup>

19. Clean Economy, Living Planet. The race to the top of Global Clean Energy Technology Manufacturing 2012. Roland Berger Strategy Consultants.
20. Banen en economische waarde van 16 procent duurzame energie in 2020 in Nederland (2013). EcoRys.

## 2007-2011

21. [The Energy report](#). 100% renewable energy by 2050. WWF/Ecofys (2011) (principle reviewer)
22. An exploration of possible design options for a binding energy savings target in Europe. Energy efficiency, 7 (1), (pp. 97-113) (17 p.). Robert Harmsen, Wolfgang Eichhammer, Bart Wesselink. Imbalance in Europe's Effort Sharing Decision: scope for strengthening incentives for energy savings in the non-ETS sectors. Energy Policy, Volume 39, issue 10 (October, 2011), p. 6636-6649. Robert Harmsen, Wolfgang Eichhammer, Bart Wesselink.
23. The unrecognized contribution of renewable energy to Europe's energy savings target (2011). Energy Policy. Volume 39, Issue 6. Pages 3425-3433. Robert Harmsen, Bart Wesselink, Wolfgang Eichhammer and Ernst Worrell.
24. The boardroom perspective: How does energy efficiency policy influence decision making in industry? (2011) Key contribution to: IEA/IIP Information paper.
25. The need to triple the impact of Energy Saving Policies in Europe (2011). B. Wesselink & R. Harmsen. Modern Energy Review, Volume 3, Issue 2 (pg 6-9).
26. The upfront investments required to double energy savings in the European Union in 2020 (2011). B. Wesselink, K. Blok, W. Eichhammer (Fraunhofer ISI) and T. Boermans.
27. A 30% emission reduction by 2020? It would pay for itself (2010). B. Wesselink, Y. Deng and R. de Vos. Energy World, march 2010.
28. Energy Savings 2020. How to triple the impact of Energy Saving Policies in Europe. Ecofys & Fraunhofer (2010).
29. SERPEC: Sectoral Emission Reduction Potentials and Economic Costs for Climate change (2009) B.Wesselink and Y. Deng.
30. The ETS-paradox. EU Emissions Trading for NOx and SO2: consequences for the European cement sector (2010). B. Wesselink, A. Smit (EmissionCare), T. van Melle.

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<sup>11</sup> reports 16 and 17 are shown because as the client I was strongly involved in design, finalization and outreach of these studies.

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31. EU climate policy impact in 2020. With a focus on the effectiveness of emissions trading policy in an economic recession scenario (2009). W. Graus, U. Sreenivasamurthy, B. Wesselink.
32. Organisation of a CO2 infrastructure in the Netherlands. Towards realization of Carbon Capture and Storage (in Dutch) (2008). S Hagedoorn, E. van de Brug, E. Bloomen, B. Wesselink, M. Vosbeek and C. Hendriks.
33. Development of a methodology for compensation for indirect emissions in the non-ferrous metals industry – using aluminum production as an example (2008) S. Klaus, B. Wesselink & S. Wartmann.
34. Technical support to Dow Chemical Ibérica, S.L. for the assessment of existing allocation of allowances for 2008-2012 (report in Spanish) (2008). M.Torres, A. Gilbert, B. Wesselink, N. Valero, F. van Dellen.
35. The IFIEC method for the allocation of CO2 allowances in the EU emissions trading scheme (2008). B. Wesselink, S. Klaus, A. Gilbert, K. Blok.

## **2004-2007**

36. Measurement Beyond GDP. Background paper for the conference Beyond GDP (2007). B. Wesselink, J. Bakkes, A. Best and F. Hinterberger. Measuring progress, true wealth, and the well-being of nations. 19-20 November 2007.
37. EU 2020 climate target: 20% reduction requires five-fold increase in impact of CO2 policies (2007). Wesselink, L.G., J. Vis & H. Eerens. MNP report no. 500094007.
38. The consequences of the European Soil Framework Directive for Dutch policy (2007). Wesselink, L.G., J.G.M. Notenboom and A. Tiktak. MNP Report no. 500094003.
39. Tool use in integrated assessments - Integration and synthesis report for the SustainabilityA-Test project (2006). Lotze-Campen, H., M.M. Dijk, D. Gunther, M. van Herwijnen, N. Kasperczyk, R.P.M. Kemp, K. Knickel, O.J. Kuik, P. Martens, A. Matovelle, M. Nilsson, M. Patel, T. de Sousa Pedrosa, A. Guimaraes Pereira, A. von Raggamby, P. Schepelmann, K.H. Simon, J. Turnpenny, L.G. Wesselink – W. de Ridder (eds). Report no. 555030001 119 p en, 2006.
40. Halting the loss of biodiversity in the Netherlands (2006). Notenboom J., M. van Veen and L.G. Wesselink. MNP Report no. 500094001.
41. EU Sustainable Development Strategy: ingredients for the 2006 revision (2006). De Ridder, W. & L.G. Wesselink. MNP Report 500096001.
42. The impact of Euro 5: facts and figures (2006). Wesselink, L.G., E. Buijsman & J.A.A Annema. MNP report 500043002.
43. Aviation in the EU Emissions Trading Scheme: a first step towards reducing the impact of aviation on climate change (2005). Tuinstra, W., W. de Ridder, L.G. Wesselink, A. Hoen, J. Bollen & J. Borsboom. MNP report 500043001/2005.
44. Europees milieu langs de meetlat (2005). R. Folkert, B. Wesselink en R. Koelemeijer. Arena, nr. 7:14-15.
45. Meer energiebesparing: van inzicht naar incentives? (2005). H.E. Elzenga en L.G. Wesselink. Arena nr. 7.
46. How Member States use flexibility in EU directives (2005). Wesselink, L.G., J. Notenboom & M.W. van der Zouwen. Summary of MNP colloquium.

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## 2000-2004

47. Outstanding Environmental Issues. RIVM and EEA (2004).
48. Milieu- en natuureffecten Hoofdlijnenakkoord kabinet Balkenende-2. RIVM (2003).
49. Milieubalans 2003. RIVM (2003).
50. Milieubalans 2002. RIVM (2002).
51. Landbouw en het landelijk gebied (2003). A. van Wezel, T. Rood en B. Wesselink. *Landschap: tijdschrift voor landschapsecologie en milieukunde* 4: 183-193.
52. Milieu- en natuurbeleid Balkenende-2, doelmatig maar risicovol (2003). L.G. Wesselink, W. Lammers, O-J van Gerwen en C. Brink. *Arena*, nr 6: 18-19.
53. Milieubeleid tussen Den Haag en Brussel (2003). *Arena* 4:6-7. L.G. Wesselink, A. Hanemaaijer en A. Slokker.
54. Model Effectiviteit Instrumenten – Energie (2003). Elzenga, H.E., L.G. Wesselink, J.P.M. Ros, R.F.J.M. Engelen, H. Booij, K. Blok en H.L.F. de Groot. RIVM Rapport 550000001/2003.
55. Actief milieubeleid essentieel voor blijvende ontkoppeling (2002). S. Kruitwagen, S., L.G. Wesselink en A. Hanemaaijer. *ESB* 4381:786-787.
56. Fysieke productieontwikkelingen in de industrie. Het gebruik van STREAM bij verkenningen (2001). Thomas, R, H.J.B.M. Mannaerts, H.E. Elzenga, V.P.C.F. Herzberg, L.G. Wesselink en M. Mulder. RIVM/CPB Rapport 778001004.
57. Protocol Monitoring Energiebesparing (2001). Boonekamp, P.G.M., W. Tinbergen, H.H.J. Vreuls en B. Wesselink. ECN-C--01-129.

## Before 2000

58. A simple model of soil organic matter complexation to predict the solubility of aluminium in acid forest soils. Wesselink L.G., Breemen, N van, Mulder, J. & P.H. Janssen (1996) *European Journal of Soil Science*. Volume 47, Issue 3, pages 373–384.
59. Long-term changes in water and soil chemistry in spruce and beech forests, Solling, Germany Wesselink, L.G, K.J. Meiwes, Matzner, E. & Stein, A. (1995). *Environ. Sci. Technol.* 29, 51-58.
60. Modelling seasonal and long-term dynamics of anions in an acid forest soil, Solling, Germany. Wesselink, L.G., Mulder, J. and E. Matzner (1994). *Geoderma*, Volume 64, Issues 1–2, Pages 21–39.
61. Measuring and modeling mineral weathering in an acid forest soil, Solling, Germany. Wesselink, L. G., Grinsven, J. J. M. van and G. Grosskurth. (1994). In: *Quantitative modeling of soil forming processes*. Bryant, R.B and R.W Arnold (Eds). In: proceedings of a symposium sponsored by Divisions S-5 and S-9 of the Soil Science Society of America in Minneapolis, Minnesota, USA, 2 Nov. 1992. 1994 pp. 91-110.
62. Time trends and mechanisms of soil acidification (1994) Wesselink, L.G. PhD Thesis. Wageningen Agricultural University.
63. Chemical processes controlling the mobility of waste material contaminants in soils. Wesselink. L.G., Dekker, P.M. and T.G. Aalbers (1994). In: *Environmental aspects of construction with waste materials*. Goumans et al. (Eds). *Studies in Environmental Sciences* 60, Elsevier.



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64. Modeling Nutrient and Moisture Cycling in Tropical Forests (1993). Noij, I.G.A.M., B.H. Janssen, L.G. Wesselink & J.J.M. van Grinsven. Tropenbos Series 4, The Tropenbos Foundation, Wageningen. 195 pp.
65. Simulation of the dynamics of nutrients and moisture in tropical ecosystems (1990). Janssen, B.H., Noij, I.G.A.M., Wesselink, L.G. & van Grinsven, J.J.M. Fertilizer Research 26, 145-156.
66. Chemisorption of Catechol on Gibbsite, Boehmite, and Noncrystalline Alumina Surfaces (1988). McBride, M. B. & Wesselink, L.G. Environ. Sci. Technol. 22, 703-708.