

# Jan Christoph Minx

## PERSONAL DETAILS

Name: Jan Christoph Minx  
Date of birth: 2<sup>nd</sup> November 1976  
Nationality: German  
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## EMPLOYMENT HISTORY

From 1/2018 **Priestley Professor for Climate Change and Public Policy**, Priestley International Centre for Climate, University of Leeds, Leeds, UK  
01/2015 to present **Head of Working Group on Applied Sustainability Science**, Mercator Institute on Global Commons and Climate Change, Berlin, Germany  
01/2015 to 12/2017 **Professor for Science Policy and Sustainable Development**, Hertie School of Governance, Berlin, Germany  
06/2011 to 10/2015 **Head of Technical Support Unit**, Intergovernmental Panel on Climate Change (IPCC), Working Group III, Potsdam Institute of Climate Impact Research, Potsdam, Germany.  
11/2010 to 05/2011 **Senior Research Fellow**, Department for Sustainable Engineering, Prof. Matthias Finkbeiner, Technische Universität Berlin, Germany  
02/2010 to 05/2011 **Senior Research Fellow and Co-Leader of Research Area “Sustainable Human Settlements and Infrastructure”**, Department for the Economics of Climate Change, Prof. Dr. Ottmar Edenhofer, Technische Universität Berlin, Germany  
04/2008 to 10/2010 **Senior Research Fellow and Project Leader**, Stockholm Environment Institute, University of York, UK  
11/2005 to 03/2008 **Research Associate, Stockholm Environment Institute**, University of York, UK (during PhD)  
07/2005 to 10/2005 **Visiting Researcher at Research Institute of Professions (FFB)**, University of Lüneburg, Germany (during PhD)  
09/2004 to 12/2004 **Visiting Researcher at the Institute for Local Government Studies (AKF)**, Copenhagen, Denmark (during PhD)

## EDUCATION

10/2002 to 05/2007 Ph.D. in Environmental Economics and Management, Environment Department, University of York, UK  
10/2001 to 09/2002 M.Sc. in Environmental Economics, Environment Department, University of York, UK (degree: summa cum laude, best degree result)  
10/1998 to 09/2001 Studies of Economics and Political Science, University of Cologne, Germany  
08/1995 to 07/1997 Studies of Orchestra Music as youth and regular student, Hochschule für Musik und Darstellende Kunst, Frankfurt am Main, Germany

## PUBLICATIONS

### ***Submitted & forthcoming***

Lamb, W., M. Callaghan, F. Creutzig, R. Khosla, and **J.C. Minx** (2017). The literature landscape on 1.5°C Climate Change and Cities. Current Opinion in Environmental Sustainability revised&resubmitted.

**Minx, J. C.**, W. F. Lamb, M. W. Callaghan, S. Fuss, J. Hilaire, D. Lenzi, G. Nemet, F. Creutzig, T. Amann, T. Beringer, W. de Oliveira Garcia, J. Hartmann, T. Khanna, G. Luderer, G. F. Nemet, J. Rogelj, S. Rogers, P. Smith, and M. del Mar Zamora (2017). Negative emissions: Part 1 - Research landscape, ethics and synthesis. Environmental Research Letters, under revision.

Fuss, S., W. F. Lamb, M. W. Callaghan, J. Hilaire, F. Creutzig, T. Amann, T. Beringer, W. de Oliveira Garcia, J. Hartmann, T. Khanna, G. Luderer, G. F. Nemet, J. Rogelj, P. Smith, M. del Mar Zamora, and **J. C. Minx** (2017). Negative emissions - Part 2: Costs, potentials and side effects. Environmental Research Letters, under review.

Nemet, G. F., M. W. Callaghan, F. Creutzig, S. Fuss, J. Hartmann, J. Hilaire, W. F. Lamb, **J. C. Minx**, S. Rogers, and P. Smith (2017). Negative emissions - Part 3: Innovation and upscaling. Environmental Research Letters, under review.

**Minx, J. C.**, F. Creutzig, G. Luderer, S. Fuss, and O. Edenhofer (2017). A fast growing dependence on negative emissions technologies. Nature Climate Change, under review.

Kriegler et al. (2017). Short term policies to keep the door open for Paris climate goals. Nature Climate Change, under review.

Bertram et al. (2017). Targeted policies can compensate most of the increased mitigation risks in 1.5°C scenarios. Nature Sustainability, under review.

Hilaire, J., J.C. Minx, G. Luderer, J. Rogelj and G. Nemet (2017). Re-assessing evidence from long-term scenarios on negative emissions. Climatic Change submitted.

### ***Peer-reviewed journals***

**Minx, J. C.** (2017). Better data for assessing local climate policies. Environmental Research Letters 12(5): 051001.

**Minx, J. C.**, M. Callaghan, W. F. Lamb, J. Garard, and O. Edenhofer (2017). Learning about climate change solutions in the IPCC and beyond. Environmental Science & Policy 77: 252-259.

**Minx, J. C.**, W. Lamb, M. W. Callaghan, L. Bornmann, and S. Fuss (2017). Fast growing research on negative emissions. Environmental Research Letters 12(3): 1-10.

Kowarsch, M., J. Jabbour, C. Flachsland, M. T. J. Kok, R. Watson, P. M. Haas, **J. C. Minx**, J. Alcamo, J. Garard, P. Rioussel, L. Pintér, C. Langford, Y. Yamineva, C. O. R. von Stechow and O. Edenhofer. 2017. A road map for global environmental assessments. Nature Climate Change 7: 379-382.

Ward, H., L. Wenz, J. C. Steckel, and **J. C. Minx** (2017). Truncation Error Estimates in Process Life Cycle Assessment Using Input-Output Analysis. Journal of Industrial Ecology: forthcoming.

Knopf, B., Fuss, S., Hansen, G., Creutzig, F., **Minx, J. C.** and Edenhofer, O. (2017). From targets to action: rolling up our sleeves after Paris. Global Challenges 1(2).

Creutzig, F., Agoston, P., **Minx, J. C.**, Canadell, J. G., Andrew, R. M., LeQuere, C., Peters, G. P., Sharifi, A., Yamagata, Y. and Dhakal, S. (2016). Urban infrastructure choices structure climate solutions. Nature Climate Change 6(12), 1054-1056.

Hallegatte, S., Rogelj, J., Allen, M. R., Clarke, L., Edenhofer, O., Field, C. B., Friedlingstein, P., van Kesteren, L., Knutti, R., Mach, K. J., Mastrandrea, M., Michel, A., **Minx, J.C.**, Oppenheimer, M., Plattner, G.-K., Riahi, K., Schaeffer, M., Stocker, T. F., & van Vuuren, D. P. (2016). "Mapping the climate change challenge". Nature Climate Change 6, 663-668.

- von Stechow, C., **Minx, J.C.**, Riahi, K., Jewell, J., McCollum, D. L., Callaghan, M. W., Bertram, C., Luderer, G., & Baiocchi, G. (2016). “2 °C and SDGs: united they stand, divided they fall?” Environmental Research Letters, **11**(3).
- Creutzig, F., Jochem, P., Edelenbosch, O. Y., Mattauch, L., Vuuren, D. P. v., McCollum, D., & **Minx, J.C.** (2015). “Transport: A roadblock to climate change mitigation?” Science, **350**(6263), 911-912.
- Smith, P., Davis, S. J., Creutzig, F., Fuss, S., **Minx, J.C.**, Gabrielle, B., Kato, E., Jackson, R. B., Cowie, A., Kriegler, E., van Vuuren, D. P., Rogelj, J., Ciais, P., Milne, J., Canadell, J. G., McCollum, D., Peters, G., Andrew, R., Krey, V., Shrestha, G., Friedlingstein, P., Gasser, T., Grubler, A., Heidug, W. K., Jonas, M., Jones, C. D., Kraxner, F., Littleton, E., Lowe, J., Moreira, J. R., Nakicenovic, N., Obersteiner, M., Patwardhan, A., Rogner, M., Rubin, E., Sharifi, A., Torvanger, A., Yamagata, Y., Edmonds, J., & Yongsung, C. (2016). “Biophysical and economic limits to negative CO<sub>2</sub> emissions”. Nature Climate Change, **6**(1), 42-50.
- von Stechow, C., McCollum, D. L., Riahi, K., **Minx, J.C.**, Kriegler, E., van Vuuren, D. P., Jewell, J., Robledo-Abad, C., Hertwich, E., Tavoni, M., Mirasgedis, S., Lah, O., Roy, J., Mulugetta, Y., Dubash, N. K., Bollen, J., Ürge-Vorsatz, D., & Edenhofer, O. (2015). “Integrating Global Climate Change Mitigation Goals with Other Sustainability Objectives: A Synthesis”. Annual Review of Environment and Resources, **40**(1), 363-394.
- Kagawa, S., Suh, S., Hubacek, K., Wiedmann, T., Nansai, K., & **Minx, J.C.** (2015). “CO<sub>2</sub> emission clusters within global supply chain networks: Implications for climate change mitigation”. Global Environmental Change, **35**, 486-496.
- Baiocchi, G., F. Creutzig, **J.C. Minx** and P. Pichler (2015). “A Spatial Typology of Human Settlements and their CO<sub>2</sub> Emissions in England”. Global Environmental Change **34**: 13-21.
- Edenhofer, O. and **J.C. Minx** (2014). “Mapmakers and navigators, facts and values”. Science **345**(6192): 37-38.
- Hubacek, K., Feng, K., **Minx, J.C.**, Pfister S. and N. Zhou (2014). “Teleconnecting consumption to environmental impacts at multiple scales”. Journal of Industrial Ecology **18**(1): 7-9.
- Minx, J.C.**, G. Baiocchi, T. Wiedmann, J. Barrett, F. Creutzig, K. Feng, M. Förster, P.-P. Pichler, H. Weisz and K. Hubacek (2013). “Carbon Footprints of Cities and Other Human Settlements”. Environmental Research Letters **8**: 1-10.
- F. Creutzig, A. Popp, R. Plevin, G. Luderer, **Minx, J.C.** and O. Edenhofer (2012). “Reconciling top-down and bottom-up modelling on future bioenergy deployment”. Nature Climate Change **2**: 320-327.
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- Peters, G. P., **J.C. Minx**, C. L. Weber and O. Edenhofer (2011). “Emission transfers via international trade exceed emission reductions in the Kyoto Protocol”. Proceedings of the National Academy of Sciences **108**(21): 8903-8908.
- Kagawa, S., K. Nansai, Y. Kondo, K. Hubacek, S. Suh, **J.C. Minx**, Y. Kudoh, T. Tasaki and S. Nakamura (2011). “The Role of Motor Vehicle Lifetime Extension in Climate Change Policy”. Environmental Science & Technology **45**(4): 1184-1191.
- Creutzig, F., E. McGlynn, **J.C. Minx** and O. Edenhofer (2011). “Climate Policies for Road Transport Revisited: Evaluation of the Current Framework”. Energy Policy **39**(5): 2396-2406.
- Feng, K., K. Hubacek, **J.C. Minx**, Y. L. Siu, A. K. Chapagain, Y. Yang, D. Guan and J. Barrett (2011). “Spatially Explicit Analysis of Water Footprints in the UK”. Water **3**(1): 47-63.
- Baiocchi, G. and **J.C. Minx** (2010). “Understanding Changes in the UK’s CO<sub>2</sub> Emissions: A Global Perspective”. Environmental Science & Technology **44**(4): 1177-1184.

Wiedmann, T., R. Wood, **J.C. Minx**, M. Lenzen, D. Guan and R. Harris (2010). "A Carbon Footprint Time Series of the UK - Results from a Multi-Region Input-Output Model". Economic Systems Research **22**(1).

Baiocchi, G., **J.C. Minx** and K. Hubacek (2010). "The Impact of Social Factors and Consumer Behavior on CO2 emissions in the UK: a Panel Regression Based on Input-Output and Geo-demographic Consumer Segmentation Data". Journal of Industrial Ecology **14**(1): 50-72.

Feng, K., K. Hubacek, D. Guan, M. Contestabile, **J.C. Minx** and J. Barrett (2010). "Distributional Effects of Climate Change Taxation". Environmental Science & Technology **44**(10): 3670-3676.

Peters, G. P., D. Guan, K. Hubacek, **J. C. Minx** and C. L. Weber (2010). "China's road to sustainability: A response". Science **328**: 824-825.

**Minx, J.C.**, T. Wiedmann, R. Wood, G. Peters, M. Lenzen, A. Owen, K. Scott, J. Barrett, K. Hubacek, G. Baiocchi, A. Paul, E. Dawkins, J. Briggs, D. Guan, S. Suh and F. Ackerman (2009). "Multi-regional Input-Output Analysis and Carbon Footprinting: An overview of UK applications". Economic Systems Research **21**(3): 187-216.

Wiedmann, T., **J.C. Minx**, J. Barrett and M. Wackernagel (2006). "Allocating ecological footprints to final consumption categories with input-output analysis". Ecological Economics **56**(1): 28-48.

Munksgaard, J., L.-L. Pade, **J.C. Minx** and M. Lenzen (2005). "Influence of trade on national CO2 emissions". International Journal of Global Energy Issues **23**(4): 324.

### ***IPCC publications***

IPCC. (2014a). Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press. [Editor Working Group 3 volume]

Edenhofer, O., Pichs-Madruga, R., Sokona, Y., Kadner, S., **Minx, J. C.**, Brunner, S., . . . Zwickel, T. (2014). Technical Summary Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and **J.C. Minx** (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. [Coordinating Lead Author Working Group 3: Technical Summary]

IPCC. (2014c). Summary for Policymakers Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and **J.C. Minx** (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. [Lead author Working Group 3: Summary for Policymakers]

IPCC. (2014b). Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Geneva, Switzerland: IPCC. [Core Writing Team Member: Synthesis Report]