

# CURRICULUM VITAE

## Professor Lars J. Nilsson

### Personal information

**Name:** Lars J. Nilsson

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### Research interests

My research interests include Energy, Climate, and RTD Policy, including energy systems analyses as well as technology assessments of energy efficient end-use and renewable energy technologies - key components in strategies to reduce greenhouse gas emissions and other policy objectives - including strategies for implementation.

### Education and degrees

- Master of Science in Engineering Physics, 1987, LU, LTH, Sweden
- **Doctor** of Philosophy in Engineering, Environmental and Energy Systems Studies, 1993, LU/LTH. PhD thesis: Energy Systems in Transition, an analysis of technology, economy, and policy aspects
- **Associate Professor** (*Docent*) at the Dept. of Technology and Society, LU/LTH, Sweden, 2001

### Post-Doc position and research visits abroad

- Visiting Research Fellow (Post-Doc) during the period March 1994 to May 1995 at the Center for Energy and Environmental Studies at Princeton University, NJ, USA (grants from Fulbright Foundation and TFR)

### Present position

- **Professor** in Environmental and Energy Systems Studies, May 2002, Dept of Technology and Society, LU/LTH.
- **Vice Dean of Research**, Faculty of Engineering (LTH), January 2009, ongoing

### Previous positions

- Research Associate (*forskarassistent*) 1994-2000 at the Dept of Environmental and Energy Systems Studies, LU/LTH (on leave 1994-1995 for Post-Doc at Princeton University) .
- Acting Professor (*tf professor*) 1995-2001 at the Dept of Environmental and Energy Systems Studies (Dept of Technology and Society since 1999), LU/LTH.
- Senior Lecturer (*universitetslektor*) from October 2001 at the Department of Technology and Society, LU/LTH.

### PhD student supervisor

Main supervisor for 7 PhD students, and de-facto supervisor for an additional 5 PhD students in my capacity as Acting Professor (*tf professor*). Currently supervising four PhD students.

### Commissions

- Member of the Swedish Energy Agency Climate Policy Research Program Advisory Committee 2001-2005.
- Reviews of proposal to GEF under UNEP and the World Bank. Reviews of research proposal to NWO (Netherlands), UK-NERC, Stint/SIDA, TFR, BFR, Danish Council for Strategic Research, etc.
- Peer-review of IEA:s World Energy Outlook 2006 and papers in international journals: Energy Policy, Energy – The International Journal, The Energy Journal, Journal of Industrial Ecology, Energy for Sustainable Development, etc.
- Served as Faculty Opponent 4 times for the defence of PhD theses since 1997.
- Served as a member of the examination board 10 times for the defence of PhD theses since 1997.
- Chairman of the Research Portal on Energy at LTH since 2006.
- Member of the Swedish delegation to the IPCC WGIII SPM negotiations in Bangkok April/May 2007.
- Member of Editorial Board of Energy Efficiency (Elsevier) and Biotechnology for Biofuels (Biomed) since 2007
- Invited speaker at conferences (e.g., Sino-Swedish Science Week in Beijing 17-19 September 2007, and International Academy Council in Paris 21-22 June 2006).
- Appointed lead author for the IPCC Special Report on Renewable Energy Sources due fall 2010.

## Teaching experience

- Has developed and been responsible for several undergraduate and PhD courses. Currently teaching “Climate Change: Science and Politics” (7.5 ECTS). Lecturer at several courses at LU.

## Current research projects

- LETS2050: Governing transitions to low-carbon energy and transport systems (Programme Director, [www.lets2050.se](http://www.lets2050.se))
- European Commission: Change Best – Promoting the Development of an Energy Efficiency Services Market (coordinated by Wuppertal Institute)
- Swedish Energy Agency: Adjustment and competitiveness in the energy intensive industry: An analysis of policy instruments (with Luleå University of Technology)
- Research Council of Norway: CANES – Climate Change Altering Nordic Energy Systems (coordinated by FNI)
- Volvo Research Foundation: OMEGA – Mega Urban Transport Projects, Lessons for Decision Makers (co-funding from Vinnova and the Swedish Road Administration, coordinated by University College London)

## Dissemination and applications of research results

- Invited speaker at LUFPIG/GLOBE Conference on Biofuels at the European Parliament March 2007 and on Climate Policy at the Swedish Confederation of Enterprise June 2007. Invited presentations at companies (e.g., Volvo 2006, McKinsey 2007, Vattenfall 2006, TAC 2007/08, White Arkitekter 2008)
- I have organized/co-organised several workshops mainly under EC-funded policy oriented research projects involving various stakeholders from government, business, NGO:s, etc.
- Occasional appearances on television and radio, and cited in Swedish as well as international newspapers (e.g., Dagens Nyheter on climate policy and International Herald Tribune on biofuels in 2007, and op-eds in Dagens Industri 2008, Göteborgsposten 2009, Svenska Dagbladet 2009).

## Selected publications

- L.J. Nilsson, B. Johansson, K. Åstrand, K. Ericsson, P. Svenningsson, P. Börjesson, and L. Neij (2004) Seeing the Wood for the Trees: 25 Years of Renewable Energy Policy in Sweden, *Energy for Sustainable Development*, **11**(2):67-81.
- M. Nilsson and L.J. Nilsson (2005) Towards Climate Policy Integration in the EU: evolving dilemmas and opportunities, *Climate Policy*, **5** (2005) 363-376
- L.J. Nilsson, M. Pisarek., J. Buriak., A. Oniszk-Poplawska, P. Bucko., K. Ericsson., and L. Jaworski (2006) Energy Policy and the Role of Bioenergy in Poland, *Energy Policy*, **34**/15 2263-2278
- Ericsson K. and Nilsson L.J. (2005) Assessment of the potential biomass supply in Europe using a resource-focused approach, *Biomass and Bioenergy*, **30** (1) 1-15.
- Di Lucia L. and Nilsson L.J. (2007) Implementation of the Biofuels Directive in the European Union, *Transport Policy* **14** (6) 533-543.
- Åhman M. and Nilsson L.J. (2007) Path-Dependency and the Future of Advanced Vehicles and Biofuels, *Utilities Policy* **16** 80-89
- Thomas S., Nilsson L.J., Eichhammer W., Vreuls H., Broc J-S., Bosseboeuf D., Lapillone B., and Leutgöb K. (2007) How much energy saving is 1% per year? ECEEE 2007 Summer Study, 4-9 June, La Colle sur Loup, France, European Council for an Energy Efficient Economy, Paris, France.
- Johansson B., Modig G. and Nilsson L.J. (2007) Policy instruments and industrial responses – experiences from Sweden, ECEEE 2007 Summer Study, 4-9 June, La Colle sur Loup, France, European Council for an Energy Efficient Economy, Paris, France.
- Harmelink M., Harmsen R. and Nilsson L.J. (2008) Theory Based Policy Evaluation of 20 Energy Efficiency Instruments, *Energy Efficiency*, **1**(2) 131-148
- Nilsson M., Nilsson L.J. and Ericsson K. (2009) The rise and fall of GO trading in European renewable energy policy: the role of advocacy and policy framing, *Energy Policy*, In Press.
- Nilsson M. and Varnäs A., Nykvist B., Persson L., Virgin I., Nilsson L.J. and Ericsson K., (2009) Towards an Eco-efficient Europe - integrated governance for climate, energy and competitiveness, background document in preparation of EU informal ministerial meetings on energy (July09), environment (July09) and competitiveness (Oct09), Stockholm Environment Institute.
- Börjesson P., Eriksson K., Di Lucia L., Nilsson L.J. and Åhman M. (2008) Hållbara biodrivmedel – finns de? (Sustainable biofuels – do they exist?), Report commissioned by BilSweden (the Swedish car industry association). Also available in English at [www.miljo.lth.se](http://www.miljo.lth.se)