

CURRICULUM VITAE

February 2016

MARIA KOPSAKANGAS-SAVOLAINEN

PERSONAL DETAILS

Date of Birth 24th of January 1970

Nationality Finnish

Address Finnish Environment Institute
University of Oulu
PO Box 413
90014 University of Oulu
FINLAND

Phone +358 29 525 1297

E-mail maria.kopsakangas(at)oulu.fi

EDUCATION

D.Sc (Econ.) University of Oulu, Finland 2002
- Doctoral dissertation: A Study on the deregulation of the Finnish electricity markets
- grade: Magna cum laude approbatur

M.Sc (Econ.) University of Oulu, Finland 1996

LANGUAGE SKILLS

Finnish, English, Swedish

EMPLOYMENT (Academic)

Research Professor, Finnish Environment Institute and University of Oulu. 1.4.2014-

Senior Researcher, Finnish Environment Institute and University of Oulu, 1.7.2010-31.1.2014

Professor of economics (acting), Department of Economics, University of Oulu, 1.1.2010-30.6.2010.

Assistant professor of economics, Department of Economics, University of Oulu, 1.1.2005- (15.3.2005 – 30.11.2005 on maternity leave).

Lecturer, Department of Economics, University of Oulu, 1.1.2004 – 31.12.2004.

Assistant professor of economics, Department of Economics, University of Oulu, 1.1.2002-31.12.2003 (1.6.2003 – 31.12.2003 on maternity leave).

Researcher, Project manager, holder of a scholarship of Nordic Energy Research Program (NERP) University of Oulu, Department of Economics, 1.1.1999-31.12.2001

Researcher and PhD-student, Finnish Postgraduate Programme in Economics and Department of Economics, University of Oulu, 1.1.1997 - 31.12.1998.

Researcher (in project: Energy-Environment-Economy Model for Europe, organized by the European Union and the University of Cambridge) and PhD-student, Department of Economics, University of Oulu 1.3.1996 - 31.12.1996.

Research assistant, Department of Economics, University of Oulu, 28.11.1994 – 20.12.1994, 2.5.1995-30.6.1995, 1.8.1995-1.10.1995.

PROFESSIONAL SERVICE

Referee	Energy Economics Energy Efficiency Energy Policy Energy Finnish Economic Papers Scandinavian Journal of Economics
Editorial work	Member of the Editorial Board: Energy Efficiency (Springer)
Testimony and other expert statements	Finnish parliament, 15.10.2014 M 6/2014 vp. On permission of building new nuclear power station in Pyhäjoki, Finland. Finnish market court, 17.10.2012. Case 421-495/11/E1 Energy Industry and Energy Market Authority; 1) Methods in Efficiency Measurement; 2) Comparison of StoNED, DEA and SFA methods. Finnish market court, 10.10.2008. Case: Energy Industry and Energy Market Authority; Evaluation of the Finnish electricity distribution and transmission regulation.
Other	Member of the Board, The Finnish Climate Panel, 21.1.2016- Member of the program steering group (Future Energy Systems, FLEXe), CLIC Innovations Ltd., 15.9.2014- Member of the Board, Finnish Economic Association, 16.4.2014- Member of the Board, Martti Ahtisaari Institute of Global Business and Economics (MAIGBE) 27.10. 2008 –30.3.2013 Member of the Equality Board 1.1.2003-31.12.2004, 1.1.2007-31.12.2008.

Member of the Development Board of the University Education
(KOTKA) 1.1.2007-31.12.2009.

Member of the Education Board (OKTR) (Faculty of Economics and
Business Administration) 1.1.2005-30.7.2010

Member of the Faculty Council (Economics and Business
Administration) 1.1.2003-30.7.2010

Member of the Board (Finnish Society for Economic Research)
1.3.2003-1.3.2005

CONSULTING

Finnish Energy Industries (several times), Finnish Parliament (Economy Committee), Finnish
Electricity market authority (EMV).

RESEARCH GRANTS and AWARDS

Yrjö Jahnsson Foundation (2004)

Fortum Foundation (2006)

Yrjö Jahnsson Foundation (2007)

Fortum Foundation (2010)

EU Horizon 2020 (2014)

EU EAKR (2015)

TEKES (2015)

Finnish Academy (2015)

Finnish Academy STN (2015)

The Public Utility Research Prize for the Best Paper In Regulatory Economics, Presented at the 8th
Annual International Industrial Organization Conference, May 2010.

Teacher of the year 2009, Faculty of Economics and Business Administration, University of Oulu.

TEACHING EXPERIENCE

Analysis of Competition, Department of Economics, University of Oulu 2009, 2010, 2011, 2012,
2013, 2014, 2015.

Industrial Organization, Department of Economics, University of Oulu 2015.

Seminar in Economics, Department of Economics, University of Oulu, 2006-2010, 2012-2015.

Principles of Economics, Department of Economics, University of Oulu, 2004, 2007-2009.

Principles of Economics, Oulu Business Excellence courses (eMBA), 2006 – 2011, University of
Oulu

Monopoly, natural monopoly and regulation – theory and a little bit practice, Lectures, Energy Market Authority Finland, May 2006.

Introduction to Industrial Organization, Department of Economics, University of Oulu, 2004-2011.

Industrial Organization, Department of Economics, University of Oulu, 2002-2013.

Mathematical Economics, Department of Economics, University of Oulu, 3 credits, 2002 and 2003. 2006.

Microeconomic analysis (exercises), Department of Economics, University of Oulu, 3 credits 2002 and 2003

Principles of Economics, Open University, University of Oulu, 3 credits, 1997 and 2000.

Public Economics, Department of Economics, University of Oulu, 3 credits, 1995-2002.

Preparation course (Economics) to the School of Economics and Business Administration, 1995 and 1998.

TUTORED SCHOLARLY THESES (bachelor and master of economics) total number >150.

PhD DISSERTATIONS UNDER TUTORING

Enni Ruokamo, University of Oulu

Hannu Huuki, University of Oulu

Juha Teirilä, University of Oulu

Mari Heikkinen, University of Oulu

Santtu Karhinen, University of Oulu

Anna-Maija Juuso, University of Oulu

Hannu Savolainen, University of Oulu

Teemu Meriläinen, University of Oulu

OPPONENT IN PUBLIC EXAMINATION OF DOCTORAL DISSERTATIONS:

Pii Elina Berghäll: Essays on the Technology Frontier and Finnish Innovation Policy. Aalto University, 13.11.2015.

PRE-EXAMINATION OF DOCTORAL DISSERTATIONS:

Hanna-Liisa Kangas: Renewable Energy and Climate Policies: Studies in the Forest and Energy Sector. September 2011.

Pii Elina Berghäll: Essays on the Technology Frontier and Finnish Innovation Policy. July 2015.

PRESENTATIONS IN CONFERENCES AND WORKSHOPS

Ammarnäs CERE Annual Spring Meeting (Keynote), March 30 – April 1, 2015.

SYKE Sciency Day, 14 October, 2014, Espoo, Finland

CERE (Centre for Environmental and Resource Economics) Seminar (Invited), 9 April, Umeå.

Annual Conference of European Association of Environmental and Resource Economists (EAERE), 25-29 June 2013, Toulouse.

32nd International Energy Workshop (IEW), 19-21 June, 2013, Paris.

11th Annual International Industrial Organization Conference, 17-19 May 2013, Boston

XXXV Annual meeting of the Finnish Economic Association, 14-15 February 2013, Mariehamn, Finland.

12th IAEE European Energy Conference, 9-12 September 2012, Venice, Italy.

Annual International Industrial Organization Conference, 8-10 April 2011, Boston, USA.

XXXIII Annual meeting of the Finnish Economic Association, 3-4 February, Oulu, Finland, 2011.

Annual International Industrial Organization Conference (Invited), 14-16 May 2010, Vancouver, Canada.

Annual Congress of the European Economic Association (EEA), 23-27 August 2009, Barcelona, Spain.

XXVI seminar for Economic researchers, 10-11.6.2009, Jyväskylä, Finland.

EnePro conference, 3. June 2009, Oulu, Finland.

Annual meeting of the Finnish Society of Economic Research, Turku, Finland, 2009.

Nordic Workshop on Electricity Economics (NOREL), 9-10 June 2008, Stockholm.

Workshop on electricity markets, organized by Finnish Energy Market Authority, 11.3.2008, Helsinki.

Annual meeting of the Finnish Society of Economic Research, Jyväskylä, Finland, 2008.

Annual meeting of the Finnish Society of Economic Research, Lappeenranta, Finland, 2007.

NEMIEC, General meeting, Copenhagen, Denmark, 30.11.-1.12.2006.

Annual meeting of the Finnish Society of Economic Research, Helsinki, Finland, 2006.

Annual meeting of the Finnish Society of Economic Research, Kuopio, Finland, 2004.

Workshop on the electricity market regulation, organized by Finnish Energy Industries, September 2003, Helsinki.

Nordic Energy Research Program, General Meeting, Oulu, Finland, 2002.

Finnish Electricity Association, Annual Meeting, Oulu, Finland, 2002.

Nordic Energy Research Program, General Meeting, Stockholm, Sweden, 2001.

Nordic Energy Research Program, General Meeting, Reykholt, Island, 2000.

Danish Economic Council Economist workshop, Copenhagen, Denmark 2000.

Nordic Energy Research Program, General Meeting, Oslo, Norway, 1999.

Coordination in deregulated electricity markets, International Seminar, Saariselkä, Finland, 1999.

Energy-Efficiency and Spatial Sustainability, International Seminar, Amsterdam, Netherlands, 1997.

Publications

Peer reviewed publications

Li, H., Kopsakangas-Savolainen, M., Xiao, X.-Z., Tian, Z., Yang, X., Wang, J. (2016) Efficiency of Electric Grid Utilities in China: A comparison of estimates from SFA-MLE, SFA-Bayes and StoNED-CNLS, *Forhcoming in Energy Economics*

Kopsakangas-Savolainen, M., Mattinen, M., Manninen K. and Nissinen, A. (2015) Hourly-based greenhouse gas emissions of electricity - cases demonstrating possibilities for households and companies to decrease their emissions, *Journal of Cleaner Production, in press.*

Kopsakangas-Savolainen, M. and Takalo, T. (2014) Competition before sunset: The case of the Finnish ATM market, *Review of Network Economics*, 13 (1): 1-33.

Kopsakangas-Savolainen, M. and Svento, R. (2014) Hydropower Production Strategies: Impacts on Emissions and Windfall Profits. *Journal of Energy*, Vol. 2014 ID 710414
<http://dx.doi.org/10.1155/2014/710414>.

Kopsakangas-Savolainen, M. and Svento, R. (2013) Promotion of market access for renewable energy in the Nordic Power markets, *Environmental and Resource Economics*, Vol.54 (4): 549-569.

Kopsakangas-Savolainen, M. and Svento, R. (2013) Economic Value Approach to Intermittent Power Generation in the Nordic Power Markets, *Energy and Environment research*, Vol. 3 (2),139-155.

Kopsakangas-Savolainen, M. and Juutinen,A. (2013) Energy consumption and savings: A survey based study of Finnish households, *Journal of Environmental Economics&Policy* 2(1): 71-92.

Kopsakangas-Savolainen, M. and Svento, R. (2012) Real-Time Pricing in the Nordic Power Markets, *Energy Economics*, Vol 34 (4): 1131-1142.

Kopsakangas-Savolainen, M. and Svento, R. (2011) Observed and unobserved heterogeneity in stochastic frontier models, *Energy Economics*, Vol. (2): 304-310.

Kopsakangas-Savolainen, M. and Svento, R. (2010) Comparing welfare effects of different regulation schemes: an application to the electricity distribution industry, *Energy Policy*, Vol. 38:7370-7399.

Kopsakangas-Savolainen, M. and Svento, R. (2008). Estimation of cost-effectiveness of the Finnish electricity distribution utilities, *Energy Economics*, Vol. 30: 212-229.

Kopsakangas-Savolainen, M. (2004) The Welfare Effects of Different Pricing Schemes for Electricity Distribution in Finland, *Energy Policy*, Vol. 32 (12): 1429-1435.

Kopsakangas-Savolainen, M. (2003). Quantity versus Price Competition in the Deregulated Finnish Electricity Markets, *Finnish Economic Papers*, Vol 16 (2): 51-60.

Books and Monographs

Kopsakangas-Savolainen, M. and Svento, R. (2012) Modern Energy Markets; Real-Time Pricing, Renewable Resources and Efficient Distribution, Springer UK, London. ISBN 978-1-4471-2971-4.

Kopsakangas-Savolainen, M. (2002) A Study on the Deregulation of the Finnish Electricity Markets, Acta Universitatis Ouluensis Oeconomica, G 11, University of Oulu, Dissertation.

Other scientific publications

Kopsakangas-Savolainen, M. and Takalo, T. Competition before sunset: The case of the Finnish ATM market, Bank of Finland Research Discussion Papers 32, 2012

Kopsakangas-Savolainen, M. (2010) Consistency conditions for efficiency measures in Finnish electricity distribution industry; *Economics of Networks eJournal* Vol. 2, (156). Available at: <http://ssrn.com/abstract=1717709>.

Kopsakangas-Savolainen, M. (2001) Distribution Price of Electricity and Potential Welfare Improvements, *Working Papers*, No 18, Department of Economics, University of Oulu.

Kopsakangas-Savolainen, M. (2001) Restructuring of electricity industry – International Experiences, *Working Papers*, No 17, Department of Economics, University of Oulu.

Kopsakangas-Savolainen, M. (1999) Company Structure and Optimal Pricing in the Deregulated Finnish electricity markets, *Conference proceeding*, Coordination in Deregulated Electricity Markets, March 22-24. Saariselkä, Finland.

Kopsakangas-Savolainen, M. (1999) Vertical Integration versus Vertical Separation in the Deregulated Finnish Electricity Market, *Working Papers*. No. 14, Department of Economics, University of Oulu.

Kopsakangas-Savolainen, M. and Forssell, O. (1997) Data and Model Validation for Finland, *E3ME Working Paper No.9*: Cambridge Econometrics.

Scientific publications in Finnish

Kopsakangas-Savolainen, M. ja Svento, R. (2014). Sähkömarkkinoiden sääntelystä ja sääntelymuotojen hyvinvointivaikutuksista, *Kansantaloudellinen aikakauskirja* Vol. 110. p. 151-161.

Huuki, H., Kopsakangas-Savolainen, M. ja Svento, R. (2014). Reaaliaikaisen hinnoittelun vaikutuksista pohjoismaisilla sähkömarkkinoilla, *Kansantaloudellinen aikakauskirja* Vol. 110. p. 162-173.

Airaksinen, M., Seppälä, J., Vainio, T., Tuominen, P., Regina, P.K., Peltonen- Sainio, P., Luostarinen, S., Sipilä, K., Kiviluoma, J., Tuomaala, Savolainen, I. ja Kopsakangas-Savolainen, M. (2013). Rakennetun ympäristön hajautetut energiajärjestelmät. Suomen Ilmastopaneeli, Raportti 4/2013.