

## **CURRICULUM VITAE**

### **EINAR HOPE**

#### **PERSONAL**

Name: Einar Hope  
 Born: 13.07.1937  
 Private address: Storevarden 31, 5114 TERTNES  
 Office address: Norwegian School of Economics,  
 Helleveien 30, N-5045 BERGEN  
 Civil status: Married to Margrethe Hope

#### **EDUCATION**

Ph.D. in Economics, Norwegian School of Economics and Business Administration (NHH), 1967.

Master Degree in Economics and Business Administration, NHH, 1962.

Graduate Bergen Commercial College, 1958.

#### **AWARDS, HONOURS and MEMBERSHIP**

The Shell Prize in Economics for petroleum research 1979

International Association for Energy Economics' Award for Outstanding Contributions to the Association, 2013.

The Nigerian Association for Energy Economics. Award of Honour, 2012.

Knight of the 1<sup>st</sup> Order of the Royal Norwegian St. Olav's Order by the King of Norway in reward for "excellent service to nation and mankind", 2008.

Norwegian Academy of Technological Sciences (NTVA), voted member 2006-

Academia Europaea, voted member 2011-.

#### **STUDIES AND STAYS ABROAD**

Visitor, the World Bank and the International Monetary Fund, February/March and December 2002

Ruhrgas-scholarship in energy economics 1990: Stays at the Institute of Energy Economics, University of Cologne, University of Bayreuth, German Institute for Economic Research, Berlin.

Stanford University and Electric Power Research Institute, 1988.

Visiting Fellow, Clare Hall, University of Cambridge, 1971-72.

Nordic course in economics for young researchers (international economics), Helsinki, 1967.

Graduate student, University of Minnesota, Department of Economics, 1965-66.

Salzburg Seminar in American Studies, Salzburg, 1963.

## **POSITIONS**

Professor Emeritus, NHH, 13.7.2004 -

Professor in energy economics, NHH, 01.03.1999 - 13.07.2004

Director General, Norwegian Competition Authority, 1995-1999.

President, Centre for Research in Economics and Business Administration, 1991-1995.

Professor II in Economics, NHH, 1987-1998.

Executive Director, Center for Applied Research, 1978-90.

Executive Director, Institute of Industrial Economics, 1976-78.

Associate Professor in Economics, NHH, 1968-76.

Assistant Professor in Economics, NHH, 1967-68.

Research Fellow in Economics, NHH, 1964-67.

Research Assistant in Economics, NHH, 1962-64.

## **PROFESSIONAL REPRESENTATIONS, MEMBER OF BOARDS, ETC**

Chairman of Board, Oslo Centre for Research in Environmentally friendly Energy, 2010-2015

International Association for Energy Economics (IAEE). President 2010, President-Elect 2009. Book Review Editor of IAEE journal: Economics of Energy and Environmental Policy (EEEP), 2012-

Academia Europaea, Member of Board, Bergen Hub, 2014-

Book Review Editor of IAEE journal Economics of Energy and Environmental Policy, 2011-  
Energy – Climate – Technology (ECT) Conference 2008 and 2009. Chair of Organizing and Programme Committees.

Initiator of Energiforum EF, chairman of Board, 2004-2009. Chair Organizing Committee for the Annual Energy Foresight Symposium, 2006-2007

Christian Michelsen Institute, member of Board, 2005-2012

Christian Michelsen Research Foundation, chair of Board, 2005-2012

Fish Pool ASA, member of Index Surveillance Board, 2006-2014

International Association for Energy Economics; member of Council 2003-. Vice President for Conferences, 2003-2008. Member of several programme committees for IAEE

Conferences. Organized IAEE European Conference in Bergen 2000 and 2005. General Conference Chair, IAEE International Conference, Bergen, 2016.

Initiator of a new IAEE journal: *Economics of Energy and Environmental Policy (EEEEP)*.  
Chair of Working Group and drafting of proposal to establish the journal.

Workgroup for Infrastructure Policy, TU-Berlin, member of programme committee, 2004-08

Norwegian Central Bureau of Statistics, member of Board, 2003-2009

Nansen Environmental and Remote Sensing Center, member of Scientific Committee, 1998-2010.

Norwegian Research Council, member of board of research programme for tourism, 2006-2009

Gas Oracle, Member of Board, 2002- 2005

Government Committee on the Benchmarking of the Norwegian Economy, Head, 2000-2001

Government Committee on Competition in the Market for Legal Services, Head, 2001-2002

Administrative Research Institute, NSEBA, member of Board, 1999 – 2003

Bergensbanken/Handelsbanken, member of Board 1999- 2000

Government Bank Insurance Fund of Norway, member of Board, 1991-94. Chairman 1.11.94-2000

Government Committee on International Competition in the Financial Sector, Head, 1999-2000

Government Committee on Government Media Policy, member, 1999-2000

Economic advisor to the Norwegian Ministry of Oil and Energy on Gas Restructuring, 1999-2001

EU-financed research programme SESSA; member of Executive Board and Head WP6: Harmonising an effective regulation, 2003- 2005.

Norwegian Research Council, member of research strategy group for Future energy systems, 2007.

Norwegian Research Council; member of Programme Board of Travel and Tourism Policy, 2007-

Norwegian Research Council; member of Interimboard for the research programme RENERGI, 2004, and member of planning committee for the programme 2003-04.

Norwegian Research Council, member of Programme Board for Research on Market and Society, 2000-2006

Norwegian Research Council, Chairman, Programme Board for Energy and Environmental Research, 2000-2004

Research Fund for Sydkraft AB, now E.ON Sweden, member of Board, 2001-2006

Inter-American Development Bank, member of Advisory Board for research programme on Sustainability of Power Sector Reform

Member of several Programme Committees for international conferences on energy economics and competition policy

Government Committee for Competition Policy, member, 1990-91.

Swedish Competition Authority, member of Research Council, 1995- 2005

The Energy Journal, member of Editorial Board, 2000-

International Journal of the Journal of Economics of Business, member of Editorial Board, 1993-2008

Government Committee for Market Institutions in the Electricity Sector, member, 1990-91.

NORAS - Norwegian Council for Research in the Social Sciences, member of council, 1988-92.

NORAS, Programme for Research in the Financial Sector, member of programme committee, 1990-96.

Evaluation of research in Lithuania, chairman of expert committee for economics and law, 1995.

Center for the Dissemination of Research, member of board, 1991-94.

Bergen High-Technology Centre, member of board, 1991-1995.

Economic College, member of Council, 1986-96.

Marine Genetics Ltd., chairman of Board, 1989-91.

European Association for Research in Industrial Economics, member of Steering Committee, 1977-93.

European Association for Research in Industrial Economics, member of East-West Committee, 1989-90.

International Journal of Industrial Organization, Associate Editor, 1988-1995.

Community of European Management Schools (CEMS) Business Review, member of Editorial Board, 1994-1996.

European Institute for Advanced Studies in Management, member of Board, 1995- 2002.

The World Confederation of Productively Science, member of Board of national chapter, 1990- 1992.

Norwegian Banking and Security Commission, member of Board, 1987-90.

Bergen Research Foundation, member of Board, 1987-90.

SAF-Konsulent Ltd., member of Board, 1986-88, chairman of Board, 1989-95.

International Association of Energy Economists, member of Board Norwegian chapter, 1985-88.

Center for European Policy Studies, advisor, 1987, 1994

Norwegian Maritime Research, member of Editorial Committee, 1983-86.

Norwegian Association of Electricity Companies, consultant to the Board, 1981-85.

Norwegian Journal of Business Administration, member of Editorial Board, 1972-84.

Extension Division of the Norwegian School of Economics and Business Administration, member of Board, 1981, chairman of Board, 1982-86, member of Board, 1992-1995.

Bergen Economic Association, chairman, 1979-82, secretary, 1966-72.

Norwegian Research Council for Technology and Natural Sciences, member of Committee for shipping research, 1980-82.

Norwegian Petroleum Association, member of Board, 1976-78.

Wichman Motorfabrikk Ltd., member of Board, 1976-78.

Journal of Economic Literature, Scandinavian correspondent, 1972-77.

Member of a number of committees at the Norwegian School of Economics and Business Administration and in the Norwegian university system.

Chairman, Committee for Graduate Studies, NHH, 1999-2002.

## **RESEARCH AND RESEARCH ADMINISTRATION**

Head of Working Party 6: Harmonising effective regulation, of EU-research programme SESSA (Sustainable Energy Specific Support Assessment), with seven European research institutions. 2003-2005.

Application for a Centre of Excellence for Energy and Environmental Research, Norwegian Research Council, 2002.

Member of a number of advisory committees/steering committees for research projects and programmes.

Principal investigator of more than a hundred research projects and programmes at the Institute of Industrial Economics, Center for Applied Research, and Centre for Research in

Economics and Business Administration within a number of disciplines in economics, business administration and related fields, with concentration on industrial organization and energy economics.

Research documentation; dissemination of knowledge, diffusion of results, transfer of technology.

Research administration and financing.

Research cooperation and participation with international institutions and agencies, a.o. University of Cambridge, University of Minnesota, Stanford University, Stockholm School of Economics, Electric Power Research Institute, University of Khartoum/Development Studies and Research Centre, International Institute of Management, Centre for European Policy Research, FAO, OECD, Institute of Industrial and Social Research, Institute of Energy Economics, German Institute for Economic Research.

Supervision, evaluation and training of research personnel.

Referee for International Journal of Industrial Economics, Journal of Industrial Economics, Scandinavian Journal of Economics, and The Energy Journal.

### **CONFERENCES, SEMINARS, WORKSHOPS, ETC**

Since 1990: More than 600 talks, presentations, commentaries, panels, etc. at national and international conferences, seminars and workshops, mainly on industrial organisation, competition policy, and energy economics/energy sector reform issues.

### **TEACHING AND ADMINISTRATION**

Developing and managing the MBA summer school course at NHH for foreign students in Natural resource management and policy: The Norwegian model, June/July 2007, 2008, 2009 and 2010.

Taught at several Executive Master programmes of the NHH, e.g. Certificate in Financial Energy Market Analysis, Master in Public Economics and Leadership, Master in Strategic Leadership

Member of a number of internal committees at NHH, e.g. Chairman of the Standing Programme Committee for Graduate Studies, NHH, 1999-2002

Taught most courses in economics at the Norwegian School of Economics. Developed the field of industrial organisation and energy economics at the School, both at undergraduate and graduate levels.

Examiner at the NHH and a number of academic institutions in Norway. External examiner, Master programme in energy management, University of Strathclyde, 2011-

**PROFESSIONAL SOCIETIES, (have been or am a member)**

American Economic Association

European Economic Association

European Association for Research in Industrial Economics

International Association of Energy Economics

Norwegian Economic Association

## LIST OF PUBLICATIONS

### A. ECONOMICS - INDUSTRIAL ORGANIZATION

A competent and independent competition policy agency. Some reflections and viewpoints, in *Room for Action in Competition Policy*. . Festschrift to Christine Meyer, Fagbokforlaget, 2014. (Et kompetent og uavhengig konkurransetilsyn. Noen refleksjoner og synspunkter).

Competition and competition policy for innovative industries (Konkurrans og konkurransepolitikk for innovative næringer), with Kåre P. Hagen: *Økonomisk Forum*, nr. 3, 2007.

Competition policy and sector-specific economic media regulation - and never the twain shall meet?, Paul Seabright and Jürgen von Hagen (eds): *Economic regulation of broadcasting markets*, Cambridge University Press, 2007.

*Competition and competition policy for innovative industries*, SNF-Working Paper 26/04. 78p. (with Kåre Petter Hagen)

Competition policy and economic sector regulation: And never the twain shall meet? Norwegian Competition Authority: *10<sup>th</sup> Anniversary Publication 2004*.

- Network integration - implications for competition and regulatory policies, in Helge Godø (ed): *IKT - after the dotcom-bubble*. Gyldendal Akademisk, 2003

*Industrial policies for the new economy* (ed). Fagbokforlaget, 2002. 368 p

*The pros and cons of low prices* (ed). Konkurrenseverket, Stockholm. 2003. 130p

*-Benchmarking of Norwegian Industries*, NOU 2001:29, 250 p (Chairman of Government Committee)

*-International benchmarking and economic performance*, in *Festschrift to Pentti Vartia*, 2003

*Access to justice. Competition in the market for legal services*. (NOU 2002:18). (Chairman of Government Committee)

- *Competition policy analysis*, (ed), Routledge Studies in the Modern World Economy, Routledge, London, 2000, 251 p
- *Competition and trade policies: Coherence or conflict?* (ed.). Routledge Studies in the Modern World Economy, Routledge, London 1998, 346 p. Introduction 10 p.
- Competition policy for the agricultural cooperative system, *Næringsmiddelindustrien*, No. 1, 1999, 2 p.



- Competitive implications of ownership, *Konkurransen* no. 3, 1998, 6 p.
  - Competition and trade policies: Coherence or conflict? Paper presented at Symposium on the Commemoration of the 50<sup>th</sup> Anniversary of the Founding of the Fair Trade Commission of Japan, published in Japanese in *Kosei Torihiki*, 1998, 12 p.
  - EC competition law: The millennium approaches (co-author Helle Thorsen), in Fordham Corporate Law Institute, *International Antitrust Law and Policy*, London 1998, 16 p.
  - Tasks and challenges in competition policy., *Konkurransen* no. 1, 1998, 5 p.
  - Exposing the municipal sector to competition. (co-author Kurt R. Brekke), *Forsyning* no. 1, 1997, 8 p.
  - *Market, competition, and politics*, (ed.), Festschrift in honour of Egil Bakke, Fagbokforlaget, Bergen, 1995, 340 p.
- Competition for efficient resource use*, NOU 1991:27 (Author especially of ch. 8)
- *A review of the analyses in the long-term programme 1994-97 of the Norwegian government*, (together with Kåre Petter Hagen et. al), SNF Report no. 31/1993, 30 p.
  - *Competition for efficient use of resources*, Report from a government committee, Oslo 1991, 475 p.
  - Norwegian competition policy - regulation or market?, in Jan Erik Askildsen and Siri Pettersen Strandenes (eds.): *Analyses of the Norwegian economy*, SAF Report no. 27/1990, chapter 1, 25 p.
  - *Market structure, prices, and competition policy: A theoretical evaluation, with an analysis of the markets for petrol, cars and insulation material*, (together with Rolf

Jens Brunstad, Tom Rådahl, Lars Sørgard, Geir-Helge Sjøtrø and Steinar Vagstad), SAF Report no. 1/1989, 276 p.

- Innovation in high technology industries, in Knut H. Sørensen and Tron Espeli (eds.): *New technology - a challenge for social science research*. NAVF-NTNF-NORAS 1989, 24 p.
- Market structure and innovation, in Kjell Grønhaug and Geir Kaufmann (eds.): *Innovation: A Cross-Disciplinary Perspective*, Norwegian University Press, Oslo, 1988, 16 p.
- *Market structure and competition*, Bedriftsøkonomens Forlag, 1986, (editor, together with Rolf Jens Brunstad), 202 p.
- Barriers to entry and competition, in Brunstad and Hope (eds.): *Market structure and competition*, 24 p.
- 
- *Innovation in high technology industries*, SAF Working Paper no. 9/1985, 28 p.
- *Industry studies: Methodological considerations*, (together with Jon Hanssen, Lars Mathiesen and Kristin D. Titlestad), Report no. 9, Institute of Industrial Economics, 1978, 267 p. Author of chapters 1-9, 148 p.
- Industry studies in theory and practice, in Festschrift to Professor Olav Harald Jensen: *Business administration in theory and practice*, Bedriftsøkonomens Forlag, Oslo, 1977, 15 p.
- *The effects of firm size and market structure on innovation: A survey*. Discussion Paper no. 08/73 from Institute of Economics, NHH, 82 p.
- *Market structure and innovative activity: The problem of causation*. Working Paper, NHH, 1974, 16 p.

- *Strategies for R & D activity under oligopoly: Innovation versus imitation.* Working Paper, NHH, 1974, 12 p.
- *Surveys of Norwegian industries.* Volume I-III. Johan Grundt Tanum Forlag, Oslo, 1972, (editor), 1260 p.
- Norwegian agriculture, in E. Hope (ed.): *Surveys of Norwegian industries*, Volume I, 218 p.
- The secondary sectors, in E. Hope (ed.): *Surveys of Norwegian industries*, Volume II, 446 p.
- Location of manufacturing industries in Norway. *Norges Industri* no. 4, 1970, 4 p.
- *Bergen in perspective. Industrial issues.* Proceedings from Bergen Economic Association, J.W. Eide Forlag, Bergen, 1970, (editor), 220 p.
- 
- The manufacturing industry of Bergen, in E. Hope (ed.): *Bergen in perspective. Industrial issues*, 22 p.
- Growth in real capital and its effect on production growth in industrialized countries, *Bedriftsøkonomen*, no. 7 and 8, 1967, 8 p.
- *The measurement of technological change: Outline of an approach to the measurement of embodied and disembodied technological change.* Discussion paper of October 29, 1969 from Institute of Economics, NHH, 14 p.
- *Statistical measures of economic concentration*, Working Paper, Institute of Economics, NHH, 1964, 42 p.

## **B. ENERGY ECONOMICS**

Book review: The Global Development of Policy Regimes to Combat Climate Change, edited by Nicholas Stern, Alex Bowen, and John Whalley. (World Scientific Publishing Co., 2014). *Economics of Energy and Environmental Policy*, No. 1, 2015.

Introduction to the selected conference papers. IAEE International Conference, New York, 2014. *IAEE Energy Forum*. No. 2, 2014

Book review: The Political Economy of Carbon Pricing: A Commentary. Review of: *Carbonomics. How to Fix the Climate and Charge it to OPEC*, by Steven Stoft with assistance from Dan Kirschner. (Diamond Press, 2008).

*Pricing Carbon. The European Union Emissions Trading Scheme*, by A. Denny Ellerman, Frank J. Convey and Christian de Perthuis. (Cambridge University Press, 2010)..

*Climate Policy after Copenhagen. The Role of Carbon Pricing*, by Karsten Neuhoff. (Cambridge University Press, 2011).

*Economics of Energy and Environmental Policy*, No. 2, 2012

Price of Power. A historical anecdote, *Samfunnsøkonomen*, No. 6, 2013

*A national energy strategy 2013-2017*. Report from a NTVA Working Group, 2013. Member of WG and author of chapter on Energy efficiency

Wind power and hydro power: Norway as a “power battery” for Europe? *Magma*. March 2011

Statnett against Hardanger. Commentary, *Samfunnsøkonomen*. No 4, 2010

Public regulation and political governance, *Samfunnsøkonomen*, Nr. 5, 2011.

Energy supply and environmental considerations, *Forskningsnytt*, Norwegian Research Council, 2010

Invited columnist in the Norwegian monthly journal *Energi* from September 2010. .See Appendix for listing

President’s Message on energy and environmental policy. *IAEE Energy Forum*, four issues, 2010.

*Optimal investment in market-based electric power systems: Market and regulatory issues*. SNF Working Paper 07/08 (together with Frode Skjeret).

The background for the Norwegian electricity market reform, in Jan Moen and Sverre Sivertsen (eds.): *An electric power market is emerging: the Norwegian electric power market reform in hindsight*. NVE 2007.

Norwegian Academy of Technological Sciences: *Ethics of climate change. Exploring the principles of equal emission rights*. Trondheim 2007. Member of Working Group.

Book review: The Political Economy of Power Sector Reform. The Experiences of Five Major Developing Countries, by David G. Victor and Thomas C. Heller (eds). (Cambridge: University Press). *The Energy Journal*, 2008

Electricity market reform - the Norwegian experience, (with Torstein Bye), in Lars

Sørgard (ed): *Competition and welfare: The Norwegian experience*. Norwegian Competition Authority, 2007.

Deregulation of the electricity market. Norwegian experiences, (Deregulering av kraftmarkedet. Norske erfaringer), (with Torstein Bye), Økonomisk Forum nr. 1, 2007

The electricity market - does it function? (Kraftmarkedet - fungerer det?), *Magma*, nr. 5-6/2006.

Energy policy at a halt, (Energipolitikk i stampe). *Energi*, no. 2, 2006.

*Market dominance and market power in electric power markets. A competition policy perspective*. Report 2005:3. Swedish Competition Authority, Stockholm. 128 p.

*Deregulation of electricity markets - The Norwegian experience* (with Torstein Bye). Discussion paper No 433, Statistics Norway. Research Department, September 2005.

Deregulation of electricity markets. The Norwegian experience (with Torstein Bye), in "Global experience with electricity reform", *Economic and Political Weekly*, December 2005.

Harmonising effective regulation (with Balbir Singh), in Jean-Michel Glachant and Francois Léveque (eds): *Achieving European Union electricity markets in 2009? Assessment and proposals*. EU SESSA, 2006.

Regulation - A Coasian Approach (with Nils-Henrik von der Fehr and Kåre P. Hagen), forthcoming in *Journal of Network Industries*, 2006.

Power markets and power prices, *Economic Debate Series*, Institute of Economics, 2003.

Power markets and competition: Some issues, *Annual Report 2003*, Institute of Economics

*Network regulation* (together with Kåre Petter Hagen and Nils-Henrik von der Fehr), SNF-report 1/2002, 141 p.

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- *Competitive condition for the Norwegian power sector* (together with Ove Osland, Balbir Singh and Jan Gaute Sannarnes). SNF-report 2/2002. 97p.

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- *Electricity economics: Policies*, (Ed. together with L. Melamed and M. Lychagin) Publishing House of the Siberian Branch of the Russian Academy of Sciences. (In Russian)

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- 10 years with the Energy Act, in *Statnett 10 years*, Oslo, 2001, 10p

-

- Regulating climatic emissions from deregulating the European electricity markets, SNF Working Paper 3/01 (together with Magnus Hatlebakk and Jostein Skaar), 35p

-

- *Studies in market based electricity systems and regulation*, Fagbokforlaget, Bergen, 2000, 352 p
- Regulatory regimes for the Norwegian electricity industry, *Praktisk økonomi og finans*, no. 4, 1999. Also in Festschrift to Professor Terje Hansen, Cappelen akademisk forlag, 1999. 18 p
- Energy market developments and strategic choices for Statkraft, *Statkraft Rapport*, 2000, 4 p.
- Deregulation of the Norwegian electricity sector: Experiences and challenges, in Kåre P. Hagen, *Deregulation and Competition*, Fagbokforlaget, Bergen 1997.
  
- *Designing a market based system for the Icelandic electricity industry: Some considerations and recommendations*, unpublished paper. Published in Icelandic in Framtíðarskipan orkumála, appendix 1: *Markaðskerfi fyrir íslenskan raforkubúskap: Nokkrar hugleiðingar og tillögur*. Iðnadar og Viðskiptaráðuneyti, October, 1996.
  
- Energiemärkte und Wettbewerbspolitik, in Jörn Kruse/Otto G. Mayer (eds): *Aktuelle Probleme der Wettbewerbs - und Wirtschaftspolitik*, Nomos, Baden-Baden, 1996, 17 p.
  
- Electricity markets and competition policy, in Einar Hope, Preben Munthe, Anders Chr. Stray Ryssdal and Steinar Undrum (ed.): *Marked, konkurranse og politikk. Festskrift til Egil Bakke*, Fagbokforlaget, Bergen, 1995, 25 p.
  
- Regulation of the Norwegian electricity industry, *Privatization International*, 1995, 12 p
  
- Markets for electricity in Norway: Structure, prospects and problems, in Jean-Pierre Chamoux (ed.): *Services publics: Modèles d'exploitation des réseaux*, Paris, 1995, 10 p.

- Markets for electricity: Economic reform of the Norwegian electricity industry, in Ole Jess Olsen (ed.): *Competition in the electricity supply industry: Experience from Europe and the United States*, Copenhagen, 1995, 18 p.
- Electricity markets and competition policy, in E. Hope (ed.): *Markets, competition, and politics*, Fagbokforlaget, Bergen, 1995, 26 p.
- *Energimärkte und Wettbewerbspolitik*, SNF-Working Paper 20/95, 32 p.
- *The extent of natural monopoly in the transmission grid for power: A principal analysis*, (together with Mette Bjørndal and Hans Olav Husum), SNF Report 62/1994, 76 p.
- *Optimal regulation of natural monopolies in the power system*, SNF Report 51/1994, 44 p.
- *The Norwegian electricity market*, (together with Linda Rud and Balbir Singh), SNF Report 65/1993, 49 p.
- *Impacts of increases in domestic energy prices - The cases of Malaysia, Indonesia, Ghana, Zimbabwe, Colombia and Turkey*, (together with Balbir Singh), SNF Report 108/1993, 95 p. Also published as World Bank Policy Research Working Paper No. 1442, 1995.
- *Targets and instruments in energy conservation: An economic analysis*, (together with Jørgen Bjørndalen, Oddbjørn Fredriksen, Arne Ljones and Ragnar Ottosen), SNF Report 42/1993, 61 p.
- Märkte für Elektrizität: die ökonomische Reform des norwegischen Elektrizitätssektors, in *Zeitschrift für Energiewirtschaft* 1/93, also in SNF Reprint 19/1993, 17 p.

- *Markets for electricity: Economic reform of the Norwegian electricity industry*, (together with Linda Rud and Balbir Singh), SNF Working Paper 12/1993, 42 p.
- Organisation of supply markets for natural gas in Europe, in Ernst J. Mestmäcker (ed.): *Natural Gas in the Internal Market. A Review of Energy Policy*, also in SNF Reprint 01/1993, 29 p.
- *Incentives for energy conservation*, (together with Kjetil Bjorvatn, Jørgen Bjørndalen, Kåre P. Hagen and Torill Naustvoll), SNF Working Paper 48/1992, 58 p.
- Markets for electricity in Norway, (together with Linda Rud and Balbir Singh), in E. Hope and S. Strøm (eds.): *Energy Markets and Environmental Issues*, Scandinavian University Press, 1992, 11 p.
- Internordic trade in power, in *Handel med kraft i Norden*, Nordic Council of Ministers, 1992:6.
- Market based electricity trade, *SNF-Bulletin nr. 4*, 1992, 6 p.
- *Energy Markets and Environmental Issues*, (editor, together with Steinar Strøm), Scandinavian University Press, 1992, 255 p.
- *Energy Markets and Environmental Issues: A European Perspective*, Einar Hope and Steinar Strøm (eds.), proceedings from the Bergen Energy Conference 1991, Scandinavian University Press, 1992.
- *Markets for electricity in Norway*, (together with Linda Rud and Balbir Singh), paper presented at the Bergen Energy Conference in Bergen, 1991.
- Organization of supply markets for natural gas in Europe, in Ernst J. Mestmäcker (ed.): *Natural gas in the Internal Market. A review of energy policy*. Nomos, 1991.



- *A Nordic electricity market*. Paper delivered to the Nordic Council of Ministers, November 1990, 20 p.
- *Markets for electricity: Deregulation of the electricity sector in Norway*, paper presented at the Bergen Energy Conference 1990, 17 p.
- *Who should own "Traskraft"?*, (together with Kjell Erik Lommerud), SAF Working Paper no. 21/1990, 15 p.
- *Regulation of natural monopolies in the electricity sector. Conference report from a Nordic conference on electricity markets*, 1990, 11 p.
- *Markets for electricity in Norway*, (together with Jørgen Bjørndalen, Eivind Tandberg and Berit Tennbakk), SAF Report no. 7/1989, 138 p.
- *Market allocations in electricity*, *Volt*, no. 1/89, 4 p.
- *Pricing of electricity. Economic principles*, in Finn Lied et. al. (ed.): *Pris på energi*, Teknisk Presse A.S, 1989, 12 p.
- *Energy consumption, industrial structure and economic activity: A comparison between Southern and Northern European countries*, (together with Lars Sørgard), SAF Working Paper no. 44/1988, 14 p.
- *Electricity prices and efficient energy use*, (together with Morten Berg and Kåre Petter Hagen), SAF Report no. 7/1986, 63 p.
- *Economic activity, industrial structure and energy consumption. A survey*, (together with Lars Sørgard), SAF Report no. 3/1985, 128 p.
- *Markets for electricity: An analysis of the market strategic behaviour of Statkraft in markets for interruptible power*, (together with Sigurd Tufte), SAF Report no. 6/1984, 151 p.

- *Decisions on interruptible power: An empirical investigation*, (together with Morten Berg, Cato Adrian and Torstein Hole), SAF Working Paper no. 10/1984, 80 p.
- Markets for electricity in Norway: A theoretical analysis. *Statsøkonomisk Tidsskrift*, 1983, 12 p.
- *Markets for electricity in Norway: A theoretical analysis*. SAF Report no. 3/1983, 12 p.
- Economic incentives and public firm behaviour: An econometric study of energy economizing behaviour of Norwegian electric utilities, (together with Eivind Magnus and Richard Matland), *Scandinavian Journal of Economics*, 3, 1983, 20 p.
- *The Norwegian electricity system: A survey*, (together with Bernt Einar Bauge), SAF Working Paper no. 10/1983, 54 p.
- *The credit market and the financing of the electricity sector*, Norwegian Association of Electricity Companies, Oslo, 1982, 8 p.
- *Economic incentives and public firm behaviour: An econometric study of energy economizing behaviour of Norwegian electric utilities*, (together with Eivind Magnus and Richard Matland), SAF Working Paper no. 20/1981, 28 p.
- *Regulations and performance of electricity companies: Interview data for a sample of Norwegian utilities*, (together with Richard Matland, Knut O. Ims and Dag Namtvedt), SAF Working Paper no. 14/1981, 183 p.
- *Credit rationing, user price of capital and capital subsidies*, (together with Bjørn Pedersen), SAF Working Paper no. 13/1981, 19 p.
- *The financial structure of the electricity sector*, Report to the Norwegian Association of Electricity Companies, 1981, 41 p.

- *Prices and tariffs in electricity supply*, Norwegian School of Technology, 1978, 20 p.
- *Pricing of electricity. Economic principles for tariffs*, Report to the Tariff Committee, Norwegian Association of Electricity Companies, 1975, 76 p.
- Industrial effects of petroleum activities in Norway, in T. Chr. Wyller (ed.): *Norwegian Oil Policies*, Gyldendal Norsk Forlag, 1975, 25 p.
- Price formation and price development in petroleum markets, *Bergen Privatbanks Kvartalskrift*, no. 3, 1974, 16 p.
- *Economic effects of increasing energy prices*, (together with Kari Lotsberg). Center for Applied Research, NSEBA, 1974, 362 p.
- *Economic effects of increasing energy prices. An abstract*. Published by A/S Hafslund, 1974, 22 p.
- *Efficient use of energy*. Norwegian School of Technology, 1974, 41 p.

### **C. STUDIES IN BANKING**

- The international competitive environment of the Norwegian financial sector, *NOU, Government Publications*, 2000, 422 p, (Chairman of Committee and co-author).
- Structural changes in the Norwegian financial industry, *Annual report of the Norwegian Financial Association*, 1999.
- An analysis of concentration in Norwegian banking, *Statsøkonomisk Tidsskrift*, no. 2, 1965, 51 p.
- *Firm size and costs: A study of economies of scale in banking*. Institute of Economics, NHH, 1967, 122 p.

- *Economies of scale in banking: A survey of the literature*, (together with Torgeir Ose), SAF Working Paper no. 10/1982, 42 p.
- *Mergers among Norwegian savings banks*, (together with Torgeir Ose), SAF Working Paper no. 11/1982, 116 p.
- *Mergers among Norwegian savings banks: An abstract*, SAF Report no. 8/1982, 23 p., in the Norwegian Savings Banks Association: *A proposal for structural reform of the savings bank system*, Oslo, 1983.
- *The banking crisis in Norway: Problems and prospects*. Paper presented at conferences at SITRA and ETLA, Helsinki, 1993, 47 p.

#### **D. INTERNATIONAL ECONOMICS AND SHIPPING ECONOMICS**

- *Studies in shipping economics. Essays in honour of Professor Arnljot Strømme Svendsen*. Bedriftsøkonomens forlag and Center for Applied Research, 1981, (editor), 101 p.
- *The Contributions of Arnljot Strømme Svendsen to shipping economics*, in E. Hope (ed.): *Studies in shipping economics. Essays in honour of Professor Arnljot Strømme Svendsen*, (bibliography), 14 p.
- *Investment behaviour of Norwegian shipping companies*, (together with Øystein Bøe), SAF Report no. 11/1981, 11 p.
- *Investment behaviour in Norwegian shipping*, (together with Øystein Bøe and Tolleiv Haugland), SAF Report no. 5/1982, Center for Applied Research, NHH, 121 p.
- *Issues in international economics*. Bedriftsøkonomens Forlag and Center for Applied Research, 1983, (editor), 200 p.
- *Multinational companies and international economics*, in E. Hope (ed.): *Issues in International Economics*, 24 p.

**F. RESEARCH AND RESEARCH POLICY**

- Research and industry. *Bedriftsøkonomen* no. 8/1982, 4 p.
  
- Business administration and research, *Bedriftsøkonomen* no. 10/1984, 3 p.
  
- Research strategy and research dissemination, in *Festschrift to Arne Fostvedt*, Bergen, 1985, 13 p.
  
- *Contract research in the social sciences*, Conference report on contract research, Oslo, 1980, 12 p.

**G. MISCELLANEOUS PUBLICATIONS**

- \* Exercises in micro economics.
  
- \* Book reviews in national and international journals, interviews, editorials, etc.
- \* Editorials in *Bedriftsøkonomen*, *SAF-Bulletin*, *SNF-Bulletin*, *Konkurransen*, and the *Energy Forum*.
- \* Commentator in the monthly *Energi*, 2011 – See appendix

## Appendix.

### List of titles of monthly commentaries and articles in the Norwegian journal *Energi*. (In Norwegian)

September 2010	Kraftmaster og forsyningssikkerhet
Desember 2010	Sluttbrukermarkedet for kraft. <i>Quo vadis</i>
Januar 2011	Et mer effektivt kraftsystem?
Februar 2011	Hardanger. Og bakom synger Europa
Mars 2011	Offentlig regulering og politisk styring
Mai 2011	Storbritannias nye kraftmarkedsreform
Juni 2011	Den økonomisk nettreguleringen
August 2011	Offentlig eierskap og konkurranse
Oktober 2011	Bakgrunnen for energiloven
November 2011	Prising av karbon
Desember 2011	Kinas grønne vei
Januar 2012	Smarte nett
Februar 2012	Langsiktige kraftavtaler til industrien
Mars 2012	Energieffektivisering
April 2012	Tysklands «Energiewende»
Mai 2012	Enøyd argumentasjon for elektrifisering
Juni 2012	Verdsetting av uregelmessig, fornybar kraft
August 2012	Regulering av uregelmessig kraftproduksjon
Oktober 2012	Kostnader ved uregelmessig og fornybar kraftproduksjon
November 2012	Protestbevegelser og energipolitikk
Desember 2012	Er fornybarsatsingen økonomisk bærekraftig?
Januar 2013	Prisstrategi for sentralnettet. Tariffering
Februar 2013	Private investeringer i sentralnettet
Mars 2013	Fusjoner og oppkjøp i kraftnæringen
April 2013	Divided we stand. Amerikansk energipolitikk
Mai 2013	Norsk gassbørs?

Juni 2013	Rasjonell nettstruktur
August 2013	Subsidiering av elbil
September 2013	Hvite sertifikater for energieffektivisering
Oktober 2013	Norsk gass som «batteri» for europeisk kraftforsyning?
November 2013	Transparens i kraftmarkedene
Desember 2013	Kraftmarkedsreformen 1990. Bakgrunn og opplegg
Januar 2014	Nye forretningsmodeller i kraftbransjen
Februar 2014	Regulering av kraftbransjen
Mars 2014	Utenlandskabler. Lønnsom investering?
April 2014	Elektrifisering av sokkelen. Hva er alternativkostnaden?
Mai 2014	Utskifting av kraftproduksjonsutstyr – insitamenter og politikk
Juni 2014	Et bedre organisert strømmnett
August 2014	Storbritannia. Mer regulering og mindre konkurranse?
September 2014	Integrasjon av fornybar energi
Oktober 2014	Kina. Utvikling av energi- og miljømarkeder
November 2014	Smarte strømmålere
Desember 2014	Eiermessig skille i kraftbransjen
Januar 2015	Batterikonkurranse
Februar 2015	Barrierer for energieffektivisering
Mars 2015	Energieffektivisering og energisparing
Mai 2015	Trenger vi hvite sertifikater?
Juni 2015	Kapasitetsmarkeder og forsyningssikkerhet
August 2015	Politikk og marked. Vindkraft i Trøndelag
September 2015	Kraftmarkedet. Toppbelastning og etterspørselsesrespons
Oktober 2015	Kraftmarkedet. Etterspørselsesrespons. Effektivitet og fordeling
Desember 2015	Kraftbransje, klimaendringer og usikkerhet

