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Education

1997 Dr. Polit. in economics, University of Oslo.
Dissertation: "Climate Agreements under Limited Participation, Asymmetric Information and Market Imperfections". Supervisor: Michael Hoel.
1989 Cand. oecon. (Master of Economic Theory and Econometrics), University of Oslo.

Professional experience

2007 - Senior Researcher, Statistics Norway
2002 - 2007 Post Doctorate, University of Oslo, Department of Economics (80% position).
Member of the research group "Environmental economics: policy instruments, technology development, and international cooperation" at the Centre for Advanced Study (CAS) at the Norwegian Academy of Science and Letters in Oslo, 2005- 2006.
Group leader was Michael Hoel.
1996 - 2002 Research Fellow at CICERO (Center for International Climate and Environmental Research – Oslo). (Maternity leave 1996/1997 and 1998/1999).
1992 - 1996 Doctorate student at CICERO.
1990 - 1992 Executive Officer at the Economics Department, the Central Bank of Norway.
1988 Student on engagement at the Department of Finance.

Board and Committee memberships

2010 - 2011 Member of one of the Norwegian government-appointed commissions on power cable in Hardanger (Sjøkabelutvalg 3).
2010 - Member of one Swedish Expert Group for Environmental Studies.
2008 - 2010 Member of the [Danish Commission on Climate Change Policy](#).
2008 - Board member of Norges Bank 's Fund for Economic Research.
2006 - 2007 Member of the Norwegian government-appointed commission for special taxes.
2005 - 2007 Member of the Danish working group on energy- and CO₂-taxes, appointed by the Danish Government..
2004 - 2005 Council Member of the European Association of Environmental and Resource Economists (EAERE).
2001 - 2006 Board member of the Norwegian Research Council's program RAMBU (Rammebetingelser, styringsmuligheter og virkemidler for en bærekraftig utvikling).
1998 - 1999 Member of the Norwegian government-appointed commission for GHG emissions trading system for Norway (Kvoteutvalget).

Ongoing research projects

- Leading the group of researchers at Statistics Norway participating in the research project “The nature, design and feasibility of robust climate agreements”, financed by the Norwegian Research Council (2008-2011).
- Participate in the project “Multiple instruments and the design and implementation of effective energy and climate policy”, financed by the Norwegian Research Council (2008-2011).
- Participate in the project “Diffusion of climate technologies”, financed by the Norwegian Research Council (2010-2013).

Publications in international refereed journals

- Eyckmans, J, and C. Hagem 2011, “The European Union’s potential for strategic emission trading through permit sales contracts.” *Resource and Energy Economics* (forthcoming)
- Hagem, C. 2009, "The clean development mechanism versus international permit trading: The effect on technological change," *Resource and Energy Economics* 31 (1), 1-12.
- Hagem, C. and H. Westskog, 2009, “Allocating tradable permits on the basis of market price to achieve cost effectiveness”, *Environmental and Resource Economics* 42, 139-149.
- Hagem, C., and H. Westskog, 2008, "Intertemporal Emission Trading with a Dominant Agent: How does a Restriction on Borrowing Affect Efficiency?" *Environmental and Resource Economics* 40, 217-232.
- Hagem, C., S. Kallbekken, O. Mæstad and H. Westskog, 2006, “Market Power with Interdependent Demand: Sale of Emission Permits and Natural Gas from Russia”, *Environmental and Resource Economics* 34, 211-227.
- Hagem C. and O. Mæstad, 2006, “Russian exports of emission permits under the Kyoto Protocol: the interplay with non-competitive fuel markets”, *Resource and Energy Economics* 28, 54-73.
- Hagem, C., S. Kallbekken, O. Mæstad, and H. Westskog, 2005, "Enforcing the Kyoto Protocol: sanctions and strategic behavior," *Energy Policy* 33, 2112-2122.
- Hagem, C., 2003, "The merits of non-tradable quotas as a domestic policy instrument to prevent firm closure," *Resource and Energy Economics* 25, 373-386.
- Hagem, C., 2002, “A Note on the Kyoto Protocol, Tradable Quotas and Firm Survival”, *Environmental and Resource Economics* 22, 467-468.
- Hagem, C., and H. Westskog, 1998, “The Design of a Dynamic Tradeable Quota System under Market Imperfections,” *Journal of Environmental Economics and Management* 36, 89-107.
- Hagem, C., 1996, "Joint implementation under asymmetric information and strategic behavior," *Environmental and Resource Economics* 8, 431-447.
- Golombek, R., C. Hagem, and M. Hoel, 1995, "Efficient incomplete international climate agreements," *Resource and Energy Economics* 17, 25-46.
- Hagem, C., 1994, "Cost-effective climate policy in a small country," *Energy Journal* 15, 119-139.

Publications in Books

- Hagem, C., 2007, "Combating Global Warming – A Contribution from Developing Countries" in W. Østereng (ed.), Consilience. Interdisciplinary Communications 2005/2006., Centre for Advanced Study, Oslo
- Hagem, C. and H. Westskog, 2005, “Effective Enforcement and Double-Edged Deterrents” in O.S. Stokke, J. Hovi and G. Ulfstein (eds.), *International Compliance: Implementing the Climate Regime*. London: Earthscan.

- Hagem, C. and B. Holtsmark, 2004, "The Kyoto Protocol - Insignificant Impact on Global Emissions " in V. Grover (ed.), *Climate Change: Perspectives Five Years After Kyoto*". Science Publishers Inc., USA.
- Hagem, C., 2001, "Gratiskvoter i klimapolitikken - konsekvenser av ulike tildelingsformer, i Røvik (red.): *"Energi og miljø ved et tidskille,"* Norges Forskningsråd.
- Golombek, R., C. Hagem and M. Hoel, 1994, "The design of a carbon tax in an incomplete international climate agreement" in C. Carraro (ed.): *"Trade, Innovation, Environment"*, Kluwer Academic Publisher, The Netherlands.

Publications in Norwegian journals

- Hagem, C. og B. Holtsmark, 2008, "Er det noen fremtid for CDM-ordningen?," *Samfunnsøkonomen* nr 5/2008, s. 10 -18.
- Greaker, M. og C. Hagem, 2008, "Det globale klimaret: Vad kan et litet land som Norge Bidra med?," *økonomisk debatt*, 4, 44-55
- Greaker, M. og C. Hagem, 2007, "Det globale klima: Noen tanker om hvordan Norge kan bidra," *Røst* Nr.1, 10-19.
- Bjertnæs, G.H., C. Hagem og B. Strøm, 2007, "Økonomiske virkninger av nasjonal klimapolitikk," *Økonomisk Forum* 61, Nr. 8, 24-33.
- Bye, B., C. Hagem og S. Kverndokk, 2007, "Sære avgifter? Anbefalinger fra Særavgiftsutvalget," *Økonomisk Forum* 61 Nr 8, 14-23.
- Hagem, C. and K. E. Rosendahl, 2007, "Høring om det norske kvotesystemet," *Økonomisk Forum* Nr. 5
- Hagem, C., 2002, "Klimaproblemet og økonomene," *Økonomisk Forum* Nr.1.
- Hagem, C. and B. Holtsmark, 2001, "Kyotoavtale uten USA: Små miljøeffekter," *Økonomisk Forum* Nr 5.
- Hagem, C., 1997, "Klimaforhandlinger og Kostnadseffektivitet," *Sosialøkonomen* nr.8, 1997.
- Hagem, C., 1986, "Lønnsstatistikk for sosialøkonomer," *Sosialøkonomen* Nr. 1.

Other publications in Norwegian

- Hagem, C., 2008, "EUs mulighet for å utøve markedsrett i kvotemarkedet i et post-Kyoto regime." *Naturressurser og miljø* 2008, Statistisk sentralbyrå, s. 237-239.
- Bjertnæs, G.H., C. Hagem og B. Strøm, 2007, "Beregninger av økonomiske konsekvenser av ulike klimapolitiske scenarier". *Vedlegg 3 i NOU 2007:8 En vurdering av særavgiftene*.
- Bjertnæs, G.H., C. Hagem og B. Strøm, 2007, "Økonomiske konsekvenser av ulike scenarier for nasjonale klimagassavgifter", *Naturressurser og miljø* 2007, Statistisk sentralbyrå, s. 247-249.

Dr. Polit. thesis

- Hagem, C., 1997, "Climate Agreements under Limited Participation, Asymmetric Information and Market Imperfections," *Økonomiske Doktoravhandlinger*, Sosialøkonomisk Institutt , Universitetet i Oslo, no 34-1997.

Unpublished Discussion papers/Reports/Manuscripts

- Aune, F. R., H. M. Dalen and C. Hagem, 2010, Implementing EU's renewable target through green certificate markets. *Discussion Papers 630- Statistics Norway*.
- Greaker, M. and C. Hagem C., 2010, "Strategic investment in climate friendly technologies: The impact of permit trade." *Discussion Papers 615- Statistics Norway*.
- Hagem, C., 2010, Promoting renewables and discouraging fossil energy consumption in the European Union, *Discussion Papers 610- Statistics Norway*.
- Hagem, C. and B. Holtsmark, 2009, "Does the Clean Development Mechanism have a viable future?" *Discussion Papers 577- Statistics Norway*.
- Hagem, C., 2008, "Incentives for merger in a noncompetitive permit market." *Discussion Papers 568 - Statistics Norway*
- Golombek, R., C. Hagem and M. Hoel, 2006, "Optimale strategier i et to-kvotesystem," *Rapport 2/2006, Stiftelsen Frischsenteret for samfunnsøkonomisk forskning*.
- Hagem, C and B. Holtsmark, 2001, From small to insignificant: Climate impact of the Kyoto Protocol with and without US, *CICERO Policy Note 2001:1*
- Hagem, C and H. Westskog, 2000, "National Climate policy, Firm Survival and Investments," *CICERO Working paper 2000:8*.
- Hagem, C., 2000, "Climate policy, asymmetric information and firm survival," *Nota di Lavoro 10.2001, Fondazione Eni Enrico Mattei*.
- Hagem, C. and B. Holtsmark, 1998, "Emission Trading under the Kyoto Protocol- a Nordic perspective," *CICERO report no.1*.
- Hagem, C. and B. Holtsmark, 1997, "Tradable quotas for greenhouse gases: An option also in favor of the environment? ," *CICERO Policy note 1997:4*
- Hagem, C., 1996, "Climate Agreements under Limited Participation, Asymmetric Information and Market Imperfections" – a summary of a Dr. polit. thesis-, *CICERO Report no.6*.
- Hagem, C., 1996, "The value of information and the design of a climate contract under asymmetric information both before and after the contract is signed," *CICERO Working paper no. 1*.
- Torvanger, A., J.S. Fuglestvedt, C. Hagem, L. Ringius, R. Selrod and H.A. Aaheim, 1994, "Joint Implementation under the Climate Convention: Phases, Options and Incentives," *CICERO report No. 6*.

International conference participations with papers

- Fourth World Congress of Environmental and Resource Economists, 2010.
- CESifo Area Conference on Energy and Climate Economics, 16-17 October 2009, Munich, Germany.
- International Institute of Public Finance, 65th Annual Congress, Cape Town, South Africa, 2009.
- European Association of Environmental and Resource Economists' 17th Annual Conference, Amsterdam, the Netherlands, 2009.
- European Association of Environmental and Resource Economists' 16th Annual Conference, Gothenburg, Sweden, 2008.
- European Association of Environmental and Resource Economists' 15th Annual Conference, Thessaloniki, Greece, 2007.
- Third World Congress of Environmental and Resource Economists, Kyoto, Japan, 2006.
- European Association of Environmental and Resource Economists' 13th Annual Conference, Budapest, Hungary, 2004.
- European Association of Environmental and Resource Economists' 12th Annual Conference, Bilbao, Spain, 2003.
- Second World Congress of Environmental and Resource Economists, Monterey, CA, USA, 2002.
- The European Economic Association's 16th Annual Congress, Lausanne, Switzerland, 2001.

- Eleventh Annual Conference on Environmental and Resource Economics, Southampton, England, 2001.
- Tenth Annual Conference on Environmental and Resource Economics, Crete, Greece, 2000.
- First World Congress of Environmental and Resource Economists, Venice, Italy, 1998.
- Sixth Annual Conference on Environmental and Resource Economics, Umeå, Sweden, 1996.
- The European Economic Association's Tenth Annual Congress, Prague, The Czech Republic, 1995.
- The European Economic Association's Ninth Annual Congress, Maastricht, The Netherlands, 1994.

Peer-reviewer for

Ecological Economics, Energy Economics, Energy journal, Environmental and Resource Economics, Environment and Development Economics, International Environmental Agreements: Politics, Law and Economics, Journal of Development Economics, Journal of Economics, Journal of Environmental Economics and Management, Journal of Regulatory Economics, Resource and Energy Economics, The B.E. Journal in Economic Analysis & Policy, The Scandinavian Journal of Economics.

Teaching and evaluation

- Frequently oral examiner, University of Oslo
- Member of the Programme Committee for the 16'Th and 17'Th Annual Congress of Environmental and Resource Economists. (2008-2009).
- Member of the Programme Committee for the Fourth World Congress of Environmental and Resource Economists (2010).
- Lecturer in Environmental and Resource Economics, Master and Bachelor level, University of Oslo. 2002-2006.
- Seminar leader in applied microeconomics, Master and Bachelor level, University of Oslo. 2002-2006.
- Supervising four Master Thesis, University of Oslo, 2002-2007.
- First opponent PhD Thesis, (Margrethe Aanesen), University of Tromsø, 2006.

Articles in newspapers

- Bruvoll, A., M. Greaker, B. Bye, T. Fæhn and C. Hagem, 2009, "Kvotekutt ikke løsningen," *Dagens Næringsliv*, 30. mars.
- Bye, B. og C. Hagem, 2008, "Skal bensinavgiftene svinge i takt med råoljeprisen?," *Aftenposten, Økonomi*, 12 juni.
- Hagem, C., 2008, "Hva er galt med CDM-systemet?," *Dagens Næringsliv*, 22. februar.
- Hagem, C. og B. Holtsmark, 2007, "Klimadebatt uten faglig grunnlag," *Dagens Næringsliv*, 20. juni.
- Hagem, C. og K. E. Rosendal, 2007, "Gavepakke tilgasskraft," *Dagens Næringsliv*, 3. mai 2007.
- Hagem, C., 2007, "Gratisvoter ikke bare fordelingspolitikk," *Dagens Næringsliv*, 12. februar 2007.
- Hagem, C., 2001, "Liten effekt uten USA," *Dagbladet* 19. juli
- Hagem, C., 2000, "Gratisvoter er ikke gratis," *Dagens Næringsliv*, 24. april 2000
- Alfsen, K.H., B. Holtsmark and C. Hagem, 1998, "CICERO, ECON, Kvoter og avgifter," *Dagens Næringsliv*, 16. oktober 1998.
- Hagem, C., B. Holtsmark og M. Hoel, 1998, "ECON, kvoter og flytting," *Dagens Næringsliv*, 22. mai 1998.

- Hagem, C. og B. Holtsmark, 1998, "Kvoter mot Flytting," *Dagens Næringsliv*, 4. mai 1998.
- Hagem, C. og B. Holtsmark, 1998, "Miljøeffekten av kvotehandel," *Dagens Næringsliv*, 2. januar 1998.
- Hagem, C. og B. Holtsmark, 1997, "Å handle med utslippskvoter," *Dagens Næringsliv*, 1. desember 1997.

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