
Curriculum Vitae Asgeir Tomasgard

Born: October 16th 1970

Nationality: Norwegian Title: Dr. Ing. (PhD)

Profession: professor /senior researcher /centre director

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Employment record

2002- : NTNU, Department of Industrial Economics and Technology Management, professor in managerial economics and operations research.

- Centre director in Norwegian Centre for Energy Transition Strategies – FME NTRANS, a cooperation between NTNU, University of Oslo, NHH, SNF, IFE, SINTEF and HSF started in 2019 (www.ntrans.no) . This is a national research center for environmentally friendly energy (FME). Budget 32 mill €.
- Director NTNU Energy Transition, an initiative to coordinate transition research at NTNU across faculties and centers, in order to establish a new research program on transition and a think-tank for partners in industry and government. Budget start-up budget 5.5 mill €.
- Centre director in Centre for Sustainable Energy Studies - FME CenSES from 2009-2019, a cooperation between NTNU, University of Oslo, NHH, SNF, IFE, SINTEF and HSF 2009 (www.censes.no) . This is a national research center for environmentally friendly energy (FME). Budget 32 mill €.
- Research Manager, Centre For Research Based Innovation: SFI Norman, (www.sfinorman.no), From 2007-2009 (Tomasgard was 1 of 5 NTNU professors applying for a centre together with SINTEF, RTIM and 15 industrial companies in December 2005). Tomasgard coordinated the center's research and was responsible for a joint PhD program at 3 NTNU departments. (budget 20 mill €).
- Group leader for the managerial economics and operations research group (2002-2006), 13 staff and research fellows).
 - Program coordinator for a joint PhD program at NTNU/Massachusetts Institute of Technology on gas technology. From 2006-. The budget is currently 3 mill €.
 - Contact person at [NTNU/SINTEF natural gas technology center](#) in the field Energy economics.
 - Director, Lab for computational economics and optimization: Tomasgard has in 2007-2009 acquired funding for and managed the process of buying and establishing a High Performance Computing Cluster dedicated to use in economic optimization at NTNU. Current aggregated budget for the cluster is 1 mill €. It has at the moment 3000 processors and 6000 GB of memory.
 - Tomasgard has been and currently is NTNU leading researcher for several projects sponsored by the Norwegian research council within stochastic programming, energy and/or supply chain optimization (only recent projects are listed. Only the activities Tomasgard is responsible for are included in budgets):
 - Optimal design and operation of transmission networks,(2011-2013), Smart grid technology and optimization in electric power grids. 300 000 euro
 - A Times model for the Nordic countries, (2011-2013), Developing energy scenarios for renewable energy and energy efficiency, 300 000 euro.
 - Ramona (2006-2011): Managing uncertainty in the Norwegian natural gas network. Reliability

analysis and risk management in a portfolio perspective. Tomagard is responsible for a budget of 1.3 mill euro . Cooperation with StatoilHydro and Gassco.

- Meatvision(2007-2009): Supply chain optimization for Nortura. Budget 800 000 euro.
- IO-evaluation(2008-2010): Valuation of operational flexibility in integrated operations in the petroleum sector. 500 000 euro. Cooperations with StatoilHydro, ConcoPhillips and OD.
- IDON(2007-2010): Managing uncertainty in long term infrastructure development in natural gas networks, StatoilHydro: 800 000 euro.
- ECCO(2008-2009): EU project looking at investments in and design of a CO2 infrastructure at the Norwegian continental shelf, both from a business and optimization perspective. 150 000 euro.
- OptOp(2005-2008): Integrated design and operation of processing oriented natural gas value chains. 350 000 euro.
- NorWays(2006-2008): Infrastructure models for introducing hydrogen in the transport sector: 100 000 euro. (StatoilHydro, Hydro, Statkraft).

PhD students (graduated)

- *Kjetil Midthun* (Optimizing the natural gas value chain. Cooperation with NHH and CORE, Lovain la Nouve), October, 2007.
- *Peter Schütz* (Supply chain optimization in production chains, cooperation with Georgia tech.) June 2009,
- *Jogeir Myklebust* (Optimal design and operation natural gas processing chains) May 2010
- *Marte Fodstad*, November 2013(*Optimization models and algorithms for the natural gas supply chain*, cooperation with University of Maryland)
- *Lars Hellemo*, (Managing Uncertainty in Design and Operation of Natural Gas Infrastructure, Cooperation with MIT). 2016.
- Christian Skar (cosupervisor), Energy system design under climate policy scenarios, 2016.
- Karen Byskov Lindberg (cosupervisor), Zero Emission buildings and their effects on the energy system. The energy system modelling is based on TIMES and optimization models developed in the project. 2017.
- Stig Ottesen, New roles and business models for introducing Smatgrid in distribution networks and households, 2017.
- Pernille Seljom, Modeling uncertainty in the TIMES energy system model, 2017.
- Per Ivar Helgesen, Spatial equilibrium models for regional economic analysis of energy policy, planned dissertation 2018. (Cosupervisor Olga Ivanova, TNO).

Current PhD students:

- Hector Maranon-Ledesma, Energy systems and markets, planned dissertation 2019.
- Steffen Bakker, Planning of plug and abandon process for oil wells, planned dissertation 2019.
- Stian Backe: Zero Emission neighbourhoods, 2017-2020
- Güray Kara: Cineldi, Smart grids and flexibility markets, 2017-2020
- Vegard Skonseng Bjerketvedt, NCCS centre, 2018-2020.

- Mohammadreza Ahang, Assets project, 2018-2020.

Post docs

- Matthias Nowak, Infrastructure models for the energy sector, October 2006-September 2008.
- Youssaf Mohammad Shad, Supply chain optimization under uncertainty, February 2008-January 2010.
- Darijus Strasunkas, Valuation of integrated operations in the petroleum sector., August 2008-July 2011).
- Adela Pages, Infrastructure modeling in the energy sector, October 2008-July 2014.
- Michal Kaut, Scenario generation, June 2009-June 2011.
- Gerardo Perez, Algorithms for stochastic mixed integer programming with applications in energy, April 2010-March 2014
- Ruud Egging, Equilibrium models for energy systems, January 2011-June 2013.
- Alois Pichler, Optimal design and operation of power networks, November 2012-October 2015.
- Chiara Bordin, Optimization for charging of electric vehicles. Chargeflex project. November 2015-May 2018.
- Mario Blanzquez De Paz , post doc FME CINELDI, 2017-2019, Market design and transition pathways for power markets.

Student supervision at PhD level and master level (supervised about 115 master thesis students from 2000-2015 within subjects: investment analysis, logistics, supply chain optimization, risk management and liberalized energy markets (electricity and gas). Most projects have been in cooperation with industry.

- Teaching at under-graduate and graduate level, courses with 5-200 students.
- Responsible for developing 5 new courses : energy markets (PhD), modern production : economics and organization (PhD), production- and network economics (4th year), production economy and markets (3rd year), planning and economical analysis in supply chains(5th year).

International courses given

8.9-9.9. 2013: Universidade de Santiago de Compostela, Minicourse in stochastic programming. (6 hours)

13.11.12: Pontificia Universidade Católica do Rio de Janeiro, Minicourse in stochastic programming (7 hours)

4.5.09-15.5.09: University of Bergamo, 2 week course in stochastic programming. (30 hours)

1998- : SINTEF Industrial Management, Senior researcher (from 2002), part time (20%) from 2001.

In SINTEF Tomasgard has been involved in projects within supply chain optimization, investment analysis and risk management (aluminium extrusion, food production , electricity (production, sales and risk management), natural gas (production, transportation, financial trades and sales). Client companies include: StatoilHydro, Gassco, Hydro, Iberdrola, Enel, Gilde Norsk Kjøtt, NSB, Volvo Aero, Alcatel.

From 2003-2008 Tomasgard has coordinated all research in SINTEF Teknologi & Samfunn, SINTEF Energiforskning, SINTEF fiskeri og havbruk and SINTEF ICT towards Gilde and Nortura. This involves initiating research projects, leading research projects and coordinating the different efforts over time.

Tomasgard developed and negotiated framework agreements for research cooperation between Gilde/SINTEF and NSB/SINTEF.

2000-2002 : NTNU, Department of Industrial Economics and Technology Management, adjunct associate professor in

business economics (part-time position 20-50%).

1995-1998: Department of Industrial Economics and Technology Management, research fellow (stipendiat).

Education

01.12.94 -30.11.98: Dr.Ing. in operations research, Department of Industrial Economics and Technology Management, Norwegian University of Science and Technology. *"Aspects of service provision and distributed processing in a telecommunication network"*. Scholarship from Telenor Research . (Supervisor Stein.W. Wallace, co-supervisors, Leen Stougie, Shane Dye, Jan Audestad).

1989 - 1993: Siv.Ing (M.Sc.) in Industrial Economics, The Norwegian Institute of Technology (NTH),. Thesis written for Statoil: "Deterministic versus dynamic stochastic analysis of development projects: Influence on project evaluation and decisions" (in Norwegian). Thesis supervisor: Stein W. Wallace, 1993.

Organizations and boards

2019- Tomasgard is a member of the board of Smart Innovation Norway

2018- Tomasgard is a member of the board of Norsk Klimastiftelse

2016-: Tomasgard is in the scientific advisory board of CESI- Centre for Energy System Integration, UK.

2015-: Faculty board, Faculty of Social sciences and technology management.

2015-2019: Member of the board, Optimeering Aqua, spin-off company from NTNU.

2014-: Tomasgard is a member of the advisory board the minister of climate and environment, "Klima- og miljøministerens klimaråd"

2013-: Tomasgard is member of the management board, editorial board leader and sub-program leader in the European Energy Research Alliance (EERA) Joint program Energy, environment and society E3s.

2013:- Tomasgard is in the management board of the European Working Group for Stochastic programming, under EURO - Association of European Operational Research Societies

2007- : Tomasgard was chair (2010-2013) for the Committee on Stochastic programming (COSP) (<http://stoprog.org/>), a technical committee of the [Mathematical Optimization Society](#). Tomasgard was secretary of COSP from 2007-2010. Member of COSP from 2016-2019 as chair of next ICSP conference .

Member of Mathematical Optimization Society, Member of the Institute for Operations Research and Management Sciences, INFORMS, Member of IAEE

Awards

2009 The Best Paper Award of the 12th International Conference on Business Information Systems for the paper "In Quest of ICT Value through Integrated Operations: Assessment of Organisational and Technological Capabilities" presented at the ECONOM Workshop.

2008 Franz Edelman Laureate 2008: Finalist with SINTEF for INFORMS Franz Edelman Award for an outstanding example of management science and operations research practice. "*Optimizing the Offshore Pipeline system for Natural Gas in the North Sea*", Client organizations: StatoilHydro and Gassco.

2006 Harold W. Kuhn award for the paper "The Stochastic Single Resource Service-Provision Problem", Naval research logistics. This award is presented annually to an outstanding paper published in the journal in the previous

three years.

Research visits

02.05.17-15.05.17: Visiting professor , UFSC – Universidade Federal de Santa Catarina, Brazil.

26.6.16.-9.7.16: Visiting professor , IMPA- Instituto Nacional De Matemática Pura E Aplicada, Rio de Janeiro

01.10.15-13.10.2015: Visiting professor , IMPA- Instituto Nacional De Matemática Pura E Aplicada, Rio de Janeiro

08.04.15-23.04.15: Visiting professor , UFSC – Universidade Federal de Santa Catarina, Brazil.

04.10.14-18.10.2014: Visiting professor , IMPA- Instituto Nacional De Matemática Pura E Aplicada, Rio de Janeiro

22.05.14-06.06.14: Visiting professor , UFSC – Universidade Federal de Santa Catarina, Brazil. (under a 3 year grant “Pesquisador Visitante Especial” from 2014-2016)

22.04.12-05.05.12: Visiting professor at University of Bergamo on research project.

23.01.12-04.02.12: Visiting professor at Lancaster University (Under the LUMS distinguished visitor scheme)

4.5.09-15.5.09: Visiting professor at University of Bergamo, teaching a PhD course in stochastic programming.

1.8.06-30.6.07: Visiting associate professor at Massachusetts Institute of Technology, Lab for energy and the environment.

05.08.96 - 20.12.96: Visitor at the Tinbergen Institute Amsterdam

12.06.95 - 04.08.95: Visitor at Edinburgh Parallel Computing Centre (EPCC) under the Training and Research on Advanced Computing Systems (TRACS) program.

Other

Referee duties: Tomaszgard has been referee for among others: European journal of operational research, Journal of operations research society, energy journal, energy economics, energy policy transportation science, computational management science, Annals of OR, Energy, Operations Research.

Workshops and conferences

- Chair, International conference on Stochastic programming, Trondheim, August 2019.
- Chair: Energy transition week 2018 and Energy transition 2018 conference, February 26-March 2, 2018.
- Co-chair, PhD workshop on managing uncertainty in energy systems, Geilo, February 11-14, 2018.
- Chair: Energy Transitions workshop, Trondheim, November 7-8, 2017.
- Chair, Energy Transitions 2017, conference, NTNU, Trondheim, March, 2017.
- Co-Chair, International workshop on Implications of Paris project, Trondheim, March 2017.
- Co-Chair, PhD winterschool: Stochastic programming with applications, Passo Tonale, Italy, January 2017.
- Chair, Energy Transitions 2016, workshop, NTNU, Trondheim, October 2016.
- Chair, PhD workshop, Energy systems and markets, Oppdal, March 2016.
- PhD winterschool Energy systems and markets, Kvitfjell, Norway, March 22-28, 2015: chair.
- PhD winterschool: Stochastic programming with applications in energy, finance and insurance, Bad Hofgastein, Austria, March 23-28, 2014: co-chair
- PhD winterschool Stochastic programming with applications in energy and natural resources, Tignes, France, April 7-13, 2013: co-chair.
- 13th international conference on stochastic programming, Bergamo, 2013: scientific committee
- Stoprog 2012, Stochastic programming workshop, Nida, Neringa, Lithuania, 2012: Program committee chair
- 5th Nordic Optimizations symposium, Trondheim, June, 2012: Conference chair.

- International workshop on stochastic programming in energy systems, Oppdal, March, 2012: chair.
- PhD winterschool: Management of uncertainty in energy infrastructure and investments, Oppdal, March 2011: Chair
- APMOD Vienna/Bratislava (2008), program committee
- APMOD Madrid (2006), program committee
- APMOD Brunel, London, 2004: program committee

PhD committees and evaluation

Tomasgard has been in the PhD committee of

Bård Reitan(NTNU), Arnt Gunnar Lium(Molde University college), Arild Hoff(Molde University college), Josip Zoric (NTNU), Ane Marte Heggstad (NTNU), Gabriela Ribas (Pontificia Universidade Católica do Rio de Janeiro). Mario Guajardo (NHH), Nils Egil Søvde (Molde University college), Peter Gross (University of Vienna), Daniel Haugstvedt (NTNU), Iliana Ilieva(NMBU), Seyedmostafa Farashbashiastaneh (Aalborg University), Victoria Gribkovskaia (NHH). Uladzimir Rubasheuski (Høgskulen i Molde), Stefanos Delikaraoglou (DTU), Lina Reichenberg (Chalmers), Jozsef Racz (University of Southern Denmark).

Publications

International peer reviewed journals

1. Mishra, Sambheet; Bordin, Chiara; Tomasgard, Asgeir; Palu, Ivo. (2019) [A multi-agent system approach for optimal microgrid expansion planning under uncertainty. *International Journal of Electrical Power & Energy Systems*. vol. 109.](#)
2. Bjørndal, Endre; Bjørndal, Mette; Midthun, Kjetil Trovik; Tomasgard, Asgeir. (2018) [Stochastic electricity dispatch: A challenge for market design. *Energy*.vol. 150.](#)
3. Egging, Ruud; Tomasgard, Asgeir. (2018) [Norway's role in the European Energy Transition. *Energy Strategy Reviews*. vol. 20.](#)
4. Helgesen, Per Ivar; Lind, Arne; Ivanova, Olga; Tomasgard, Asgeir. (2018) [Using a hybrid hard-linked model to analyze reduced climate gas emissions from transport. *Energy*. vol. 156.](#)
5. Helgesen, Per Ivar; Tomasgard, Asgeir. (2018) [An equilibrium market power model for power markets and tradable green certificates, including Kirchoff's Laws and Nash-Cournot competition. *Energy Economics*. vol. 70.](#)
6. Helgesen, Per Ivar; Tomasgard, Asgeir. (2018) [From linking to integration of energy system models and computational general equilibrium models - Effects on equilibria and convergence. *Energy*. vol. 159.](#)
7. Hellemo, Lars; Barton, Paul I.; Tomasgard, Asgeir. (2018) [Decision-dependent probabilities in stochastic programs with recourse. *Computational Management Science*. vol. 15 \(3-4\).](#)
8. Ottesen, Stig Ødegaard; Tomasgard, Asgeir; Fleten, Stein-Erik. (2018) [Multi market bidding strategies for demand side flexibility aggregators in electricity markets. *Energy*. vol. 149.](#)

9. Xiang Li, Asgeir Tomasgard, Paul I Barton, Natural gas production network infrastructure development under uncertainty, *Journal of Optimization and Engineering*, Vol. 18 no 1, pp. 35-62, 2017
10. Seljom, Pernille, and Tomasgard, Asgeir, The impact of policy actions and future energy prices on the cost-optimal development of the energy system in Norway and Sweden, *Energy Policy* 106, 85-102, 2017
11. Seljom, Pernille Merethe; Lindberg, Karen Byskov; Tomasgard, Asgeir; Doorman, Gerard L.; Sartori, Igor. (2017) [The impact of Zero Energy Buildings on the Scandinavian energy system.](#) *Energy*. vol. 118.
12. Bakker, Steffen J.; Aarlott, Mats Mathisen; Tomasgard, Asgeir; Midthun, Kjetil Trovik. (2017) [Planning of an Offshore Well Plugging Campaign: A Vehicle Routing Approach.](#) *Lecture Notes in Computer Science*. vol. 10572, 2017.
13. A Tomasgard, A Lisser, P Beraldi, V Moriggia, [Stochastic programming—a theoretical field or relevant for managers?](#), editorial, *IMA Journal of Management Mathematics* 28 (1), 3-4,2017.
14. Skar, Christian; Egging, Ruud; Tomasgard, Asgeir. (2016) [The role of transmission and energy storage for integrating large shares of renewables in Europe.](#) *IAEE Energy Forum*. vol. Q1.
15. Marte Fodstad, Ruud Egging, Kjetil Midthun, and Asgeir Tomasgard, *Stochastic Modeling of Natural Gas Infrastructure Development in Europe under Demand Uncertainty*, *Energy journal*, accepted, 2016.
16. Agra, Agostinho; Christiansen, Marielle; Ivarsøy, Kristine S.; Solhaug, Ida Elise; Tomasgard, Asgeir., [Combined ship routing and inventory management in the salmon farming industry.](#) *Annals of Operations Research*, 2016.
17. Ottesen, Stig Ødegaard; Tomasgard, Asgeir; Fleten, Stein-Erik., [Prosumer bidding and scheduling in electricity markets.](#), *Energy*. vol. 94, 2016.
18. A. Pichler and A. Tomasgard, *Nonlinear Stochastic Programming With a Case Study in Continuous Switching*, *European Journal of Operational Research* vol 252(2), 2016.
19. Lars Hellemo & Asgeir Tomasgard, A Generalized Global Optimization Formulation of the Pooling Problem with Processing Facilities and Composite Quality Constraints, *Journal of the Spanish Society of Statistics and Operations Research(TOP)*, vol 24:209, 2016.
20. Fodstad, Marte; Midthun, Kjetil Trovik; Tomasgard, Asgeir, [Adding flexibility in a natural gas transportation network using interruptible transportation services.](#) *European Journal of Operational Research*. vol. 243 (2), 2015.
21. Pernille Seljom and Asgeir Tomasgard, *Short-term uncertainty in long-term energy system models - A case study with focus on wind power in Denmark*, *Energy Economics*, vol 49, 2015.
22. Stig Ø. Ottesen & Asgeir Tomasgard, A stochastic model for scheduling energy flexibility in buildings, *Energy*, vol 88, 2015
23. Adela Pagès-Bernaus , Gerardo Pérez-Valdés , Asgeir Tomasgard, *A parallelised distributed implementation of a Branch and Fix Coordination algorithm*, *European Journal of Operational Research*, vol 244, 2015. doi:10.1016/j.ejor.2015.01.004
24. Kaut, Michal; Midthun, Kjetil Trovik; Werner, Adrian; Tomasgard, Asgeir; Hellemo, Lars; Fodstad, Marte., [Multi-horizon stochastic programming.](#) *Computational Management Science*. volum 11 (1-2), 2014.
25. Arvesen, Ø., Medbø, V., Fleten, S.-E., Tomasgard, A., Westgaard, S., *Linepack storage valuation under price uncertainty*, *Energy*, [52, 155-164.](#), 2013.
26. Shim, Y., Fodstad, M., Gabriel, S.A., and Tomasgard, A., *A branch-and-bound method for discretely-*

- constrained mathematical programs with equilibrium constraints*, Annals of OR, [volum 210 \(1\),2013](#).
27. L. Hellemo, K. Midthun, A. Tomasgard and A. Werner, ' *Natural Gas Infrastructure Design with an Operational Perspective*', Energy Procedia, Vol. 26, pages 67-73, 2012.
 28. Xiang Li, Asgeir Tomasgard, Paul I. Barton, Decomposition Strategy for the Stochastic Pooling Problem, Journal of global optimization, Volume 54, [Issue 4](#), pp 765-790, December 2012.
 29. Xiang Li, Asgeir Tomasgard and Paul I. Barton, Nonconvex Generalized Benders Decomposition for Stochastic Separable Mixed-Integer Nonlinear Programs, Journal of Optimization Theory and Applications, [Volume 151, Number 3](#), 2011.
 30. Xiang Li, Emre Armagan, Asgeir Tomasgard, Paul I. Barton, Stochastic Pooling Problem for Natural Gas Production Network Design and Operation Under Uncertainty, AIChE Journal, [Volume 57, Issue 8](#), pages 2120–2135, August 2011
 31. P. Schütz and A. Tomasgard, *The Impact of Flexibility on Operational Supply Chain Planning*, International Journal of Production Economics 134, 2, 300-311, 2011.
 32. Ø. Klok, P.F. Schreiner, A. Pagés-Bernaus, A. Tomasgard, *CO2 value chain for the Norwegian Continental Shelf*, Energy Policy, [Volume 38, Issue 11](#), November 2010.
 33. J. Myklebust, A. Tomasgard, S. Westgaard, *Forecasting gas component prices with multivariate time series models*, OPEC energy review, June, 2010.
 34. Kalashnikov, V.V., Perez-Valdes, G.A., Tomasgard, A., and Kalashnykova, N.I. Natural gas cash-out problem: Bilevel stochastic optimization approach. *European Journal of Operational Research*, 2010, 206, 18– 33.
 35. P. Osmundsen, T. Aven, and A. Tomasgard , *Incentives for security of petroleum supply*, *Reliability Engineering & System Safety*, [Volume 95, Issue 2](#), Pages 143-148, February 2010.
 36. A. Aspelund, T.Gundersen, M.P. Nowak, J. Myklebust, A. Tomasgard, *An optimization-simulation modell for a simple LNG process*, *Computers & Chemical Engineering*, Volume: 34, Issue: 10, 2010.
 37. M. Bjørndal, K. Midthun, A.Tomasgard, *Optimal dispatch in natural gas networks*, Energy Journal, Energy Journal 30, 4, pages 175-200, 2009.
 38. P. Schütz, S. Ahmed, A. Tomasgard, *Supply chain design under uncertainty using sample average approximation and dual decomposition*, *European Journal of Operations research*, volume 199, 2, pages 409-419, 2009.
 39. Tomasgard, A., *Comments on: On a mixture of the fix-and-relax coordination and Lagrangean substitution schemes for multistage stochastic mixed integer programming*, TOP - An Official Journal of the Spanish Society of Statistics and Operations Research, Volume 17 Number 1,2009.
 40. Frode Rømo, Asgeir Tomasgard, Lars Hellemo, Marte Fodstad, Bjørgulf Haukelidsæter Eidesen, and Birger Pedersen, *Optimizing the Norwegian Natural Gas Production and Transport*, Interfaces, January-February 2009; 39: 46 - 56.
 41. Christoph Stiller, Ann Mari Svensson, Steffen Møller-Holst, Ulrich Bünger, Kari Aamodt Espegren, Øystein Bindesbøll Holm and Asgeir Tomasgard, *Options for CO2-lean hydrogen export from Norway to Germany*, Energy, Volume 33, Issue 11, November 2008, Pages 1623-1633, 2008.
 42. P. Schütz, L. Stougie, A. Tomasgard, *Stochastic facility location with general long-run costs and convex short-run costs*, Computers & Operations Research, Volume 35 , Issue 9, 2008..
 43. J.J van der Broek, L. Stougie, A. Tomasgard, and P. Schütz, *Location of slaughterhouses under economies of scale*, *European Journal of Operations research*, [Volume 175, 2, Pages 740-750](#), 2006.
 44. S. Dye, L. Stougie, A. Tomasgard, *The single resource service provision problem* , *Naval research logistics*, 50, 869-887, 2003.
 45. S. Dye, L. Stougie, A. Tomasgard, *Approximation algorithms and relaxations for a service provision problem on a telecommunication network* , *Discrete applied mathematics*, 129, 63-81, 2003.

46. A. Tomasgard, J.A. Audestad, S. Dye, L. Stougie, M.H. van der Vlerk, S.W. Wallace, *Modelling Aspects of Distributed Processing in Telecommunications Networks* . *Annals of Operations Research*, 82:161-184, 1998
47. S. Dye, A. Tomasgard, S.W. Wallace, "*Feasibility in Transportation Networks with Supply Eating Arcs*", *Networks*, 31: 165-176, 1998.

Published in peer reviewed international books

48. Tomsgard Asgeir, Energi og klima – politikkenes store utfordring, i NTVA(editor), "Energi, teknologi og klima- utfordringer og handlingsrom", Museumsforlaget, 2015.
49. Midthun, Kjetil Trovik; Nørstebø, Vibeke Stærkebye; Tomasgard, Asgeir; Werner, Adrian. Natural Gas Networks. I: *Encyclopedia of Energy, Natural Resource, and Environmental Economics*. Elsevier 2013 ISBN 9780123750679. s. 161-167
50. M.T. Vespucci, M. Bertocchi, A. Tomasgard, M. Innorta , *Integration of wind power production in a conventional power production system: stochastic models and performance measures, to appear in Handbook of Wind Power Systems: Optimization, Modeling, Simulation and Economic Aspects* (N. Boyko, P. Pardalos, S. Rebennack eds),2013.
51. Werner, A.S., Pichler, A., Midthun, K.T., Hellemo, L., Tomasgard, A. , *Risk measures in multi-horizon scenario trees, In Raimund Kovacevic, Georg Ch. Pflug, and Maria Th. Vespucci (editors) Handbook of Risk Management in Energy Production and Trading* , Springer, 2013.
52. Hæreid, M., Schütz, P., and Tomasgard, A., "A Stochastic Programming Model for Optimizing the Production of Farmed Atlantic Salmon" In Ziemba and Gassman, "Stochastic programming- Applications in finance, energy, planning and logistics", World Scientific series in finance vol 4, World Scientific, 2012.
53. Hellemo, L., Midthun, K., Tomasgard, A. and Werner, A., Multistage stochastic programming for natural gas infrastructure design with a production perspective, World Scientific Series in Finance, in Gassman, H.I. and Ziemba, W.T. (editors), *Stochastic programming- Applications in finance, energy, planning and logistics*, World Scientific Series in Finance, 2012
54. Nørstebø Vibeke Stærkebye, Schütz Peter, Fodstad Marte, Hellemo Lars, Midthun Kjetil Trovik, Rømo Frode, Tomasgard A. Using Operations Research to Plan Natural Gas Production and Transportation on the Norwegian Continental Shelf. Wiley Encyclopedia of Operations Research and Management Science. Oxford, John Wiley & Sons, Inc., 2011.
55. Fodstad, M., Midthun, K. and Tomasgard, A., Tactical portfolio optimization in the natural gas supply chain, In Giorgio Consigli, Marida Bertocchi, Michael A. H. Dempster (editors) , *Stochastic Optimization Methods in Finance and Energy: New Financial products and energy market strategies*, New York, Springer, 2011.
56. K. Midthun and A. Tomasgard, "***Analysis of Natural Gas Value Chains***", In E. Bjørndal, M. Bjørndal, P.M.. Pardalos , M. Rönnqvist (Editors), *Energy, Natural Resources and Environmental Economics*, Springer, 2010.
57. Schütz,P., Tomasgard,A., Uggem,K, *Using hierarchical planning to exploit supply chain flexibility - An example from the Norwegian meat industry*, In Lawrence,K.D.; Klimberg, R.K., Miori, V. (editors), *The Supply Chain in Manufacturing, Distribution, and Transportation: Modeling, Optimization, and Applications* , CRC press, 2010.
58. Strasunkas, D. and Tomasgard, A., *In Quest of ICT Value through Integrated Operations: Assessment of Organisational - Technological Capabilities*, In Aalst, W. van der, Mylopoulos, J., Sadeh, N.M., Shaw M.J., Szyperki, C. , LNBIP vol 37, Springer-Verlag, pp. 159-170, 2009.
59. A. Tomasgard, F. Rømo, M. Fodstad, K. Midthun, , *Optimization models for liberalized natural gas markets*, in G. Hasle, K.-A. Lie, E. Quak (editors), *Geometric Modelling, Numerical Simulation, and Optimization: Applied Mathematics at SINTEF*, Springer, 2007.

60. A. Tomasgard, and E. Høeg, 'A supply chain optimization model for the Norwegian Meat Co-operative', in Ziemba, W.T. and Wallace, S.W., eds, 'Applications of stochastic programming', MPS-SIAM series on optimization, 2005.
61. Tomasgard, A, Borgen, E., Elevenes, J. and Hynne, H., *A spreadsheet model for valuation of venture projects*, in Matson, E. (editor), *Valuation of new technology projects*, Department of Industrial economics and technology management, NTNU, 2003.
62. A. Tomasgard and E. Høeg, *Supply chain optimization and demand forecasting*, in Olhager, Persson, Sellidin, Wikner (editors), 'Produktionslogistik 2002-Modeller for effektiv produktionslogistik'. Linköpings tekniske högskola, 2002.
63. S.W. Wallace, S. Dye, A. Tomasgard, "Feasibility in bipartite uncapacitated networks", in E. Matson, A. Tomasgard, E. Meiestad, S. Dye (eds.), "Essays in honour of Bjørn Nygreen on his 50th birthday", Dept. Of industrial economics and technology management, Norwegian University of Science and Technology, 1996.

Published in peer reviewed conference proceedings

64. Skar, C., Doorman, G. L. & Tomasgard, A. (2014, May). The future European power system under a climate policy regime. In *EnergyCon 2014, IEEE International Energy Conference* (pp. 337–344). Dubrovnik, Croatia. ISSN: 978-1-4799-2448-6.
65. Skar, C., Doorman, G. L. & Tomasgard, A. (2014, August). Large-scale power system planning using enhanced Benders decomposition. In *Proceedings of the 18th Power Systems Computation Conference (PSCC)*. Krakow, Poland.
66. Li, Xiang; Tomasgard, Asgeir; Barton, Paul I. (2011) [Decomposition strategy for natural gas production network design under uncertainty](#). *IEEE Proceedings : Conference on Decision and Control (CDC)*.
67. Decomposition Strategy for Natural Gas Production Network Design Under Uncertainty, Xiang Li, Asgeir Tomasgard, Paul I. Barton, 49th IEEE Conference on Decision and Control, 2010.
68. Strasunskas, D. and Tomasgard, A. *A Method to Assess Value of Integrated Operations*. AMCIS 2010 Proceedings. Paper 459. <http://aisel.aisnet.org/amcis2010/459>
69. Godøe, V.H., Strasunskas, D. and Tomasgard, A. *On Valuing Advanced Technologies in Greenfield Projects*. Proceedings of International Workshop on Applications of Knowledge-Based Technologies in Business (AKTB 2010) in conjunction with 13th International Conference on Business Information Systems (BIS 2010), LNBIP 57, Springer-Verlag, 2010, pp. 25-28.
70. Long-Term Planning of Natural Gas Production Systems Via a Stochastic Pooling Problem, Xiang Li, Emre Armagan, Asgeir Tomasgard, Paul I. Barton, the 2010 American Control Conference, 2010.
71. P. Schütz, L. Stougie, and A. Tomasgard, Facility location under economies of scale and uncertain demand, Dagstuhl seminar on Algorithms with incomplete information, Dagstuhl proceedings 05031, Germany, 2005.
72. H.J. Dahl, F. Rømo and A. Tomasgard, *An Optimisation Model for Rationing-Efficient Allocation of Capacity in a Natural Gas Transportation Network*, *Conference proceedings: IAEE Praha, June, 2003*.
73. A. Tomasgard, E. Høeg, *Supply Chain Optimization for the Norwegian Meat co-operative*, Conference proceedings: NOFOMA 15, Trondheim, June 2002.
74. N. Olsson, A. Tomasgard, C.C. Røstad, B. Andersen, I.-A.F. Sæthermo, *Major logistic changes, a project perspective*, Conference proceedings :NOFOMA 15, Trondheim, June 2002.
75. T. Bjørkvoll, S.F. Fleten, M. P. Nowak, A. Tomasgard og S. W. Wallace, *Power generation planning and risk management in a liberalised market*, IEEE Porto Power Tech Proceedings, pp. 426-431, 2001.
76. Rømo, F. Sæthermo, I.A. and Tomasgard, A., *Slaughterhouses and Courts of Justice - A location analysis approach*, Conference proceedings Uddevalla Symposium, Sweden, 2001.

Published popular scientific papers and policy reports

77. Tomasgard, A., Møller-Holst, S., Thomassen, M., Bull-Berg, H., Damman, S. og Bjørkvoll, T., "Nasjonale rammebetingelser og potensial for hydrogensatsingen i Norge", SINTEF-rapport A27350, 2016.
78. Magnus Korpås, Sverre Aam og Tomsgard Asgeir, "Norges voksende rolle i Europas energisystem", i NTVA(editor), "Energi, teknologi og klima- utfordringer og handlingsrom", Museumsforlaget, 2015.
79. Members of Working Group for market economics, *CCS for industry - Modelling the lowest-cost route to decarbonising Europe*, Zero Emission Platform, 2015.
80. Members of Working Group for market economics, *CCS and the electricity market - Modeling the lowest-cost route to decarbonizing European power*, Zero Emission Platform, 2014.
81. Members of Working Group for market economics, *CO₂ Capture and Storage (CCS) - Recommendations for transitional measures to drive deployment in Europe*. Zero Emission Platform, 2013.
82. E. Matson, A. Tomasgard and L.H. Vik, *Verdsetting av høyteknologibedrifter*, Magma: Tidsskrift for økonomi og ledelse, 4 (4), 2001.
83. S.F. Fleten, A. Tomasgard, S.W. Wallace, *Produksjonsplanlegging og risikostyring i et deregulert kraftmarked med finansielle instrumenter*. Magma: Tidsskrift for økonomi og ledelse, 4 (5), pp. 22-33, 2001.
84. S. Dye, A.Tomasgard, S.W. Wallace, "New aspects of service provision and technology strategies", *Teletronikk*, Telenor research, Kjeller, Norway, 1998.

In addition Tomasgard coauthored a number of SINTEF reports.

Plenarys and tutorials

1. Towards a near zero emission power system in Europe 3rd International Conference of Skoltech Center for Energy Systems: "*Science for Energy Systems Regulation*", , Moscow, October 10-12, 2017.
2. Using stochastic programming to analyse demand response in European electricity markets, **Joint Czech-German-Slovak Conference on Mathematical Methods in Economy and Industry**, Jindřichův Hradec September 6, 2017.
3. Towards Zero Emission power systems, Implications of Paris Workshop, Trondheim, March, 2017.
4. Naturgassens rolle i Europas framtidige kraftsystem, VISTA-dagen, Det norske vitenskaps-akademi, November 2016.
5. Slik kan vi nå lågutsleppssamfunnet, Inivitert plenary foredrag, Kraft i vest konferansen, Sandane, September 2016.
6. Modelling energy and climate policy using multi-horizon stochastic programming, Plenary, Computational Management Science 2016, Salamanca, 2016.
7. The future of energy Production and distribution: The future grid, NorRen summer school, Sogndal, 2016.
8. Energi og klima – politikken store utfordring, CenSES årskonferanse 2016.
9. Hvilke krav vil klimapolitikken stille til fremtidens energipolitikk?, Foredrag ved Norsk Teknisk Vitenskapsakademi, Trondheim, November 2015.
10. Analysing climate and energy policy using stochastic optimization, NorRen summer school, Berlin, 2015.
11. *Modelling global climate and energy policy using stochastic programming. invited tutorial at VOCAL conference, Veszprem, Hungary, 2014*
12. Scenario analysis using the EMPIRE model and GCAM, NorRen summer school for PhD students, Holmen Fjordhotell, Norway, 2014.

13. Analysing natural gas transport capacity markets using stochastic programming and complementarity, Lecture at the 4th PhD Winter school on stochastic programming in Bad Hofgastein, March 2014.
14. Investment models and multi-horizon scenario trees, Lecture at the Tignes PhD winter school on stochastic programming with applications in energy and natural resources, April 7-12, Tignes, France, 2013.
15. A stochastic complementarity model for natural gas booking, International winterschool on infrastructure investments under uncertainty, Oppdal, Norway, March, 2011
16. *A Decision Support Framework for Infrastructure Investments in the Energy Sector*, Key note speech at 4th Annual Trans-Atlantic INFRADAY Conference on Applied Infrastructure Modeling and Policy Analysis, Washington, DC (USA), Friday, 05 November, 2010.
17. Optimizing fresh food value chains with uncertain demand, plenary presentation at SPXII, Halifax ,Canada, 14-20 Aug, 2010.
18. Natural gas optimization, lecture at the PhD school stochastic programming: Theory and applications, Bergamo, 2009.
19. Stochastic optimization in natural gas markets, tutorial at SPXI , Vienna, 26. August 2007.

Presentations at conferences/seminars /workshops

20. Using Multihorizon Stochastic Programming to Analyze the Potential Trade-off Between Demand Response and Transmission, INFORMS international conference, Houston, October 2017.
21. Comment on research to measure progress in technology, policy, institutions, communications and adaptation; Implications of Paris Workshop, Tokyo, October, 2017.
22. Multi market bidding strategies for demand side flexibility aggregators in electricity markets, ECSO, Rome, september, 2017.
23. Stochastic Programs with Decision-Dependent Probabilities, Workshop on stochastic programming, Honoring Maarten van der Vlerk, University of Groningen, August, 2017.
24. Multihorizon stochastic programming for energy system design, CMS 2017, Bergamo, June 2017.
25. Comment on research to measure progress in technology, policy, institutions, communications and adaptation. Implications of Paris Workshop. Trondheim, 5-6 March 2017.
26. Analyzing European Climate And Energy Policy Using Stochastic Optimization, INFORMS International conference, Nashville, November 2016.
27. Towards a Zero Emission Power System in 2050, Energy Transitions 2016, workshop, NTNU, Trondheim, October 2016.
28. Challenges in Energy system integration, Kick-off seminar, advisory board, Centre for Energy System Integration, Newcastle, October, 2016.
29. A stochastic complementarity model for modeling energy and climate policy, ICSP XIV, Buzios, July, 2016.
30. The Role of Transmission and Storage in the European Energy System Towards 2030 and 2050, IAEE International Conference, Bergen, June 2016.
31. National Circumstances and Challenges to Mitigation- Key forcing factors in Norway; Implications of Paris Workshop, University of Maryland, May 2016.
32. Analyzing European Climate And Energy Policy Using Multi Horizon Stochastic Optimization, PhD workshop Oppdal, March 2016.
33. Stochastic Model for Short-term Balancing of Supply and Consumption of Electricity, INFORMS annual meeting, Philadelphia, 2015.
34. Prosumer Bidding and Scheduling in Electricity Markets, INFORMS annual meeting, Philadelphia, 2015.

35. Climate change and the need for innovation and systemic change, Climate-KIC, Norwegian Kick off meeting, NTNU, Trondheim, September 2015.
36. Stochastic modelling of short-term uncertainty in TIMES - A case study of wind power in Denmark, Computational Management Science conference, Prauge, 2015
37. Stochastic programming with decision dependent probabilities, Uncertainty Fest, Seminar at IMPA, October 2014.
38. Stochastic Programming Models for Salmon Farming, INFORMS annual meeting, San Fransisco,2014.
39. Stochastic programming with decieion dependent probabilities, EURO mini conference on stochastic programming, Paris, October 24-26, 2014.
40. Adding Flexibility in a Natural Gas Transportation Network Using Interruptible Transportation Services,IFORS,- 20th Conference of the International Federation of Operational Research Societies, 2014. Barcelona, July 2014.
41. Optimization models for salmon farming, APMOD 2014, Warwick university, Coventry, March 2014,
42. EMPIRE- modelling the future European power system under different climate policies, Joint modelling workshop for CenSES and Cree, Frisch-senteret, October 2013.
43. Investment models and multi-horizon scenario trees using a time-consistent risk measure, Workshop on risk management in energy production and trading, Vienna, September 15, 2013.
44. Capacity expansion using stochastic programming with decision dependent uncertainties, ICSP XIII, Bergamo, July 2013
45. A stochastic model for analysing the future European power system under a climate policy regime, Workshop, university of Edinburgh, March 2013.
46. Optimization models for natural gas value chains, inivited lecture, Petrobras, Rio de Janeiro, November 2012.
47. Adding Flexibility in Natural Gas Transportation Networks Using Interruptible Transportation Services.Trans-Atlantic infraday, Washington DC, November 9, 2012.
48. Stochastic programming with decision dependent probabilities, INFORMS yearly conference, Phoenix,2012.
49. Multi-stage stochastic programming for natural gas infrastructure design, ISMP 2012, August, Berlin, 2012.
50. A stochastic mixed integer model for investment in natural gas infrastructure, Euro conference, XXV, Vilnius, July, 2012.
51. Stochastic separable mixed integer nonlinear programming via generalized benders decomposition, Nida, July,Lithuania, 2012.
52. A stochastic optimization model for farming of Atlantic salmon, APMOD, Paderborn, March 2012.
53. Europeiske energiscenarier, SEEIT workshop on Sustainable Building and their Future Energy Solutions , København, March 16, 2012.
54. Long term expansion of the European power system, Workshop on stochastic modelling in energy systems, Lancaster University, February 1st, 2012
55. Long term expansion of the European power system governed by global emission mitigating strategies - A two-stage stochastic linear programming approach, Workshop on pricing in deregulated energy markets, Voss, Norway, November 2011.
56. A Stochastic Complementarity Model for Pipeline Transport Booking and investments, Informs international conference, Charlotte, NC, November 2011.
57. Ramona Infrastructure: A Multi- Horizon Stochastic Programming Investment Model, 5th Annual Trans-Atlantic INFRADAY Conference on Applied Infrastructure Modeling and Policy Analysis, Washington DC, November 2011.
58. A stochastic mixed integer model for natural gas infrastructure investments, [CPAIOR2011 Workshop on Mathematical Optimization for Energy Networks](#) in Berlin, Germany, May 2011.
59. Infrastructure investments under uncertainty in the energy sector, INFORMS international conference, Austin, November 2010.

60. Tactical portfolio planning in the natural gas supply chain, Computational Management Science, Vienna, 2010.
61. Capacity Booking in a Transportation Network with Stochastic Demand and a Secondary Market for Transportation Capacity, Workshop on Electricity market design, Geilo, March, 2010.
62. An Operational Portfolio Optimization model for a natural gas producer, Trans-atlantic infrastructure day, Washington DC, Nov 13th,2009
63. Stochastic Multistage Portfolio Optimization for a Natural Gas Producer, Informs annual meeting, Washington DC, October 2008.
64. The GasOpt tool for optimizing natural gas flow, APMOD, Bratislava, May, 2008
65. Capacity booking in a transportation network with stochastic demand and a secondary market for transportation capacity, Workshop Ragnar Frisch centre for economic research: The Environment, Technology and Uncertainty, Oslo, 22-23 May 2008.
66. Capacity booking in a transportation network with stochastic demand and a secondary market for transportation capacity, INFORMS, Seattle, 2007
67. Midthun et al., 2007 K. Midthun, M. Bjørndahl and A. Tomasgard, Modeling optimal economic dispatch and flow externalities in natural gas networks, Transatlantic infraday, Maryland, USA, 2007.
68. A stochastic complementarity program for capacity booking in natural gas transportation, SPXI, Vienna, August 2007.
69. *Optimization models for liberalized natural gas markets*, plenary presentation, APMOD 2006, Madrid, 19.6-21.6, 2006.
70. *Facility location under economies of scale and uncertain demand*, INFORMS 2005, San Francisco, November 2005.
71. *Optimizing Investments in Hydrogen Infrastructure for the Transportation Sector*, 7th IAEE European Energy conference, Bergen, August, 2005.h
72. *Combined transport optimization and yield optimization in the meat industry*, International workshop on vehicle routing, Molde, June 18. 2005.
73. *Facility location under economies of scale and uncertain demand*, Dagstuhl seminar, Germany, January, 2005.
74. *Natural gas value chain optimization using stochastic integer programming*, AIRO 2004, Lecce, Italy, Sept 6-10, 2004.
75. *Tactical planning in a liberalized gas market*, SINTEF seminar at Electricité de France, Paris, June, 2004. *Scenario generation and forecasting*, APMOD 2004, Brunel. UK, June, 2004.
76. *Tactical planning in a liberalized gas market*, IFIP Workshop on Stochastic integer programming, WG 7.7 Stochastic Optimization, Groningen, Netherlands, May 2004.
77. *Tactical and operational planning in – the VENOGA perspective*, 3rd SINTEF International Workshop on Integrated natural gas market and transportation systems, Trondheim 2003.
78. *Issues on modelling financial markets under imperfect competition*, 3rd SINTEF International Workshop on Integrated natural gas market and transportation systems, Trondheim 2003.
79. *Facility location under economics of scale*, ISMP 2003, Copenhagen, August 2003.
80. *Weekly Supply Chain Coordination with Stochastic Demand*, ISMP 2003, Copenhagen, August 2003.
81. *Tactical and operational planning in a deregulated gas market - the VENOGA perspective*, 2nd SINTEF International Workshop on integrated natural gas market and transportation systems, Selbu, October, 2002.
82. *Supply chain optimization and demand forecasting*, Plan forsknings og tilämpningskonferens, Linköping, August 2002.
83. *Supply Chain Co-ordination with Stochastic Demand*, IFORS 2002, Edinburgh, July, 2002.
84. *Supply Chain Optimization for the Norwegian Meat co-operative*, NOFOMA, Trondheim June 2002.
85. *Value Chain Management in the Liberalized Natural Gas Market*, APMOD 2002, Varenna, Italy, June, 2002.
86. *The VENOGA project*, 1st SINTEF International Workshop on integrated natural gas market and transportation systems, Røros, October, 2001.

87. *Optimization models in a liberalized natural gas market*, The Seventh Meeting of the Nordic Section of the Mathematical Programming Society, Copenhagen, October, 2001.
88. *A Supply Chain Management Model with stochastic demand*, 9th international conference on stochastic programming, Berlin, August, 2001.
89. *The value of flexibility and the price of risk*, International workshop on decision making under uncertainty, Håholmen, May, 2001.
90. *Et beslutningsstøtteverktøy for verdivurdering av kunnskapsbedrifter*, Fagkonferanse i bedriftsøkonomiske emner (FIBE), NHH, Bergen, January 2001.
91. *A Stochastic Supply Chain Management Model for the Norwegian Meat Cooperative*, 17th International Symposium on Mathematical Programming (ISMP2000), Atlanta, august 2000.
92. *A Supply Chain Optimization Model for the Norwegian meat industry*, International Working Conference on Information and Communication Technology (ICT) in Logistics and Production Management, IFIP WG 5.7, Tromsø, Norway, June 28-30, 2000.
93. *Scenario generation and valuation of new technology based firms*, 26th Meeting of Euro working group on financial modelling, Trondheim, Norway, May 4-6, 2000.
94. *Stochastic Integer Programming*, Guest lecture, Department of Industrial Economics and Technology Management, NTNU, Trondheim, Norway, October, 1999.
95. *Complexity and approximation of a stochastic integer program*, The Sixth Meeting of the Nordic Section of the Mathematical Programming Society, Vesterås, September 25, 1999.
96. *Optimeringsbasert beslutningsstøtte i verdikjeder*, SINTEF Teknologiledelse's fagdager i logistikk, Selbusjøen hotell og gjestegård, September 23, 1999.
97. *Approximation of a Stochastic Integer Program with applications in telecommunications*, 19th IFIP TC7 Conference on System Modelling and Optimization, Cambridge, England, July 12 - 16, 1999
98. *Solution methods for the service provision problem*, OR98 International Conference on Operations Research, Zurich, September 1998.
99. *Solving a stochastic service provision problem in telecommunications using branch and bound and relaxations*, Eindhoven University of Technology, August 1998.
100. *Solving a stochastic service provision problem in telecommunications using branch and bound and relaxations*, VII International Conference on Stochastic Programming, Vancouver, August 1998.
101. *Service provision and distributed processing in a telecommunications network: using stochastic programming*, The Fifth Meeting of the Nordic Section of the Mathematical Programming Society, Molde, May 1998.
102. *A stochastic service provision problem: decomposition methods*, 4th INFORMS telecommunications conference, Boca Raton, Florida, March 1998.
103. *Modelling Aspects of Distributed Processing in Telecommunication Networks*, Telenor Research, Kjeller, November 1997.
104. *Modelling in Distributed Telecommunications Networks*, 16th International Symposium on Mathematical Programming (ISMP97), Lausanne, August 1997.
105. *Stochastic Programming Models For Distributed Communications Models*, EURO/INFORMS-97, Barcelona, July 1997.

Invited guest lectures

106. Introduction to stochastic programming, guest lecture (master level) at UFSC, Brazil, May 2017.
107. Stochastic programming: introduction and examples, Lecture at winterschool in planning under uncertainty, Passo del Tonale, January 2017.
108. Grønne sertifikater, fordelings effekter og økonomiske effekter i en likevektsmodell? 14.4 CREE model forum 14.4.2016.
109. Modeling low carbon scenarios for the European power sector, 4 CREE model forum 14.4.2016.

110. Carbon capture and storage in the European power sector, CICERO lunchforedrag , 13.4.2016
111. Modeling energy and climate policy using multi-horizon stochastic programming , guest lecture, Aalborg University, May 19th, 2015
112. Modelling energy and climate policy for Europe, guest lecture NMBU, Aas, August, 2015
113. Optimization in natural gas value chains, guest lecture, PUC-RIO, October 2014.
114. Adding Flexibility in Natural Gas Transportation Networks Using Interruptible Transportation Services, Guest lecture, Humboldt University, 2014.
115. Optimization models for energy planning, lecture at UFSC - Universidade Federal de Santa Catarina, June 2014.
116. Energy research at NTNU, lecture at UFSC - Universidade Federal de Santa Catarina, June 2014.
117. Models for the natural gas supply chain, University of Santiago de Compostela, June 7th. 2013.
118. Asgeir Tomasgard, Nonconvex Generalized Benders Decomposition for Stochastic Separable Mixed-Integer Nonlinear Programs , guest lecture, University of Edinburgh, March 2013
119. A stochastic model for long term planning of the Norwegian natural gas infrastructure, guest lecture, Lancaster University Management school, January 25, 2012.
120. Guest lecture, Infrastructure planning in the energy sector, guest lecture Universidad Rey Juan Carlos, Madrid, May 2012.
121. Nonconvex Generalized Benders Decomposition for Stochastic Separable Mixed-Integer Nonlinear Programs, guest lecture Universidad Rey Juan Carlos, Madrid, May 2012.
122. Solving Discretely-Constrained Stochastic Mathematical Programs with Equilibrium Constraints – illustrated by a case from the North Sea, guest lecture, Humboldt University, Berlin, May 2011.
123. Decision support systems for long term infrastructure development in the energy sector, Technical University of Monterrey (ITESM), Monterrey, Mx, October 3th, 2007.
124. Stochastic optimization in natural gas markets, Technical University of Monterrey (ITESM), Monterrey, Mx, October 2nd, 2007.
125. *Natural gas research at NTNU*, Curtin Technical University, Perth, Australia, March, 2006.
126. Natural gas value chain optimization using stochastic integer programming, Georgia Tech, January, 2006.
127. A stochastic complementarity program for capacity booking in natural gas transportation, Universidad Autonoma de Nueva Leon, Monterrey, Mx, October 1st, 2007.
128. *Operational natural gas planning*, Massachusetts Institute of Technology, Cambridge, MA, USA, 20.6.2007.
129. A stochastic complementarity program for capacity booking in natural gas transportation, John Hopkins University, Baltimore, USA , June 18th, 2007.
130. *Operational natural gas planning*, Dalhousie University, Halifax, Ca, 9.3.2007.
131. *Optimization models for liberalized natural gas markets*, University of Pittsburgh, 11.1.2007.
132. *Optimization models for liberalized natural gas markets*, SNF seminar, Norwegian School of Business and Administration, Bergen, November 2004.
133. *Value Chain Optimization for a Gas Producer and Seller in a Liberalized Market*, IAEE Zurich, September, 2004
134. *The European Gas Market: an overview*, SINTEF seminar at Electricité de France, Paris, June, 2004.
135. *Analysis of Gas Storages and Flexible Contracts*, SINTEF seminar at Electricité de France, Paris, June, 2004.
136. *Stochastic modelling of gas prices*, SINTEF seminar at Electricité de France, Paris, June, 2004.
137. *Portfolio management and hedging* , SINTEF seminar at Electricité de France, Paris, June, 2004.
138. *Stokastisk programmering i lys av opsjonsteori*, Institutt for Industriell økonomi og teknologiledelse, Trondheim, Norway, 1. februar, 2000
139. *New Aspects of Service Provision and Technology Strategies in Telecommunications*, Department seminar, Norwegian school of economics and business administration, Department of finance and management science, Bergen, October 1, 1999.

140. *Service configuration in Intelligent Networks: A mixed-integer formulation*, TRACS-seminar, Edinburgh Parallel Computing Centre (EPCC), 1995.

Panel debates

- 141. Leader of panel debate on transport ” Hvilke politiske virkemidler bør vi velge for transportsektoren, NTVA Teknologiforum, Trondheim April 26, 2017.
- 142. Panel debate on communication of research to the public, 4th UNI-SET Energy Clustering Event, March 2017.
- 143. Panel discussion on challenges in transition policies for the energy system , public event, EERA E3s 3rd general assembly, Istanbul, September 29th, 2015.
- 144. Grønn agenda, Paneldebatt ved NTNU i forbindelse med besøk av Klima og miljøminister Tine Sundtoft, 25 februar, 2014.
- 145. Technoport Talk, Conversation between The EU European Commissioner for Climate Action, Connie Hedegaard; The Norwegian Minister of Petroleum and Energy, Ola Borten Moe and the director of CenSES, Asgeir Tomasgard. Discussing Norway's Role in a Renewable Europe. During the ISES 2013 conference.

Selected popular scientific presentations

- 146. "Europeisk klima- og energipolitikk: Hvordan påvirkes kraftmarkedene?» Trondheim Næringsforening, 15.9.2016.
- 147. Fornybar energi og Europeisk europeisk klimapolitikk, Seminar, Fylkeskommunen i Sør-Trøndelag, November 13, 2015.
- 148. Forberedt kommentar til innlegg av Bente Hagem(Statnett), Fremtidens energimarked i Europa, Energiforelesningen, UiO, Oslo, November 11, 2015.
- 149. European climate and energy policy - Interaction with Norway, Brussels opening of NTNU/SINTEF, UiB joint office.
- 150. Erfaringer med FME-ordningen, Energiforskningskonferansen, Oslo, Mai 2015.
- 151. Energi og klimapolitikk – virkemiddel i Norge og samspillet med Europa, Innlegg for lærere i kurset Energilandskapet, Trondheim, september 2015.
- 152. Modelling European energy and climate policy under uncertainty, Seminar for industry, Frisch-senteret, September, 2015.
- 153. Energieffektivisering i helsebygg - hvordan utnytte fleksibilitet i energisystemet i en bygning?, FSTL's høstmøte (forum for sykehusenes tekniske ledelse) ,Trondheim 3.11.2014.
- 154. Europeiske energiscenarier, Fremtidskonferansen, Halden, March 14, 2012.
- 155. Development of the European power system under climate policy scenarios, CenSES yearly conference, Oslo, November 2012.
- 156. Tverrfaglig forskning ved Senter for studier av bærekraftig energy- CenSES, Seminar MILEN, Universitetet i Oslo, November 2011.
- 157. *Utbytteoptimering i slakte- og skjæreledet i kjøttproduksjon*, Seminar i regi av fagsenteret for kjøtt og HiM, Molde, June 2., 2005
- 158. *Introduksjon til operasjonsanalyse*, Smartlog industri seminar : Optimeringsbasert beslutningssøtte I industrien, Trondheim, 2003.
- 159. *En modell for verdsetting av ny teknologi og intellektuell kapital*, Seminar om venturekapitalselskapenes virksomhet vedrørende bedriftsetablering og industriutvikling basert på ny teknologi, Trondheim, September 2000.
- 160. *SINTEF's evaluering av pilotprosjekt med FAST systemene*, ITTFs konferanse om ERP og logistikk spesialsystemer, Hamar, Norway, november 16-17, 1999

