

Thomas Tangerås

Curriculum Vitae

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OFFICE ADDRESS

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HOME ADDRESS

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DATE AND PLACE OF BIRTH

19 September 1969, Denmark

CITIZENSHIP

Norwegian, Swedish

CIVIL STATUS

Married, three children

EMPLOYMENT

Mälardalen University

2024– Professor of Economics

Research Institute of Industrial Economics (IFN)

2014– Senior research fellow

2007– Director of the *Sustainable Energy Transition* research program

2001–14 Research fellow

AFFILIATIONS AND VISITS

Stanford University, Program on Energy and Sustainable Development (PESD)

2018– Faculty affiliate

University of Cambridge, Energy Policy Research Group (EPRG)

2015– Associated researcher

Stockholm University, Department of Economics

2009– Associate professor (docent), affiliated

Stanford University, Program on Energy and Sustainable Development (PESD)

2017–18 Visiting scholar

University of Toulouse, Institut d'Economie Industrielle (IDEI)

2000–01 Post-doctoral scholar

University of Sydney, Department of Economics

1999–00 Visiting scholar

EDUCATION

Stockholm University, Institute for International Economic Studies (IIES)

1994–00 Ph.D. in Economics

Thesis title: Essays in economics and politics: regulation, elections and international conflict

NHH Norwegian School of Economics

1989–93 Master's Degree in Economics and Business Administration (Siviløkonom)

RESEARCH INTERESTS

General: Applied microeconomic theory,

Specific: Industrial Organization, regulation, telecom and electricity markets,
political economics

TEACHING EXPERIENCE

1. Mechanism design (Ph.D. level), Gothenburg University, 2008, 2014 and 2017
2. Microeconomics II (Undergraduate), Stockholm University, Teaching Assistant (TA), 1999
3. Industrial Organization I and II (Ph.D. level), Stockholm University, TA, 1996-1997
4. Trade theory (Postgraduate), Stockholm University, TA, Spring 1996

PROJECT MANAGEMENT, GRANTS AND FELLOWSHIPS

1. 2024 “IFN Stockholm Conference.” Jan Wallanders och Tom Hedelius stiftelse, mSEK 0,5
2. 2023– “Sustainable integration of the electricity market.” The Swedish Energy Agency, mSEK 5,0
3. 2021– “Political conflicts over wind power development in Sweden.” The Swedish Energy Agency, mSEK 4,0
4. 2021– “New tools for analyzing markets with imperfect competition.” Torsten Söderbergs Stiftelse, mSEK 1,8
5. 2019–20 “National network operators in an integrated electricity market.” The Swedish Energy Agency, mSEK 2,8
6. 2015–19 “Competition in the electricity market.” Jan Wallanders och Tom Hedelius stiftelse, mSEK 2,5
7. 2017–18 Travel Grant. Jan Wallanders och Tom Hedelius stiftelse, mSEK 0,4
8. 2015–18 “Regulation of distribution networks in a future electricity system.” The Swedish Energy Agency, mSEK 3,6
9. 2015–17 “Equilibrium capacity reserves in a multinational electricity market.” Energiforsk EFORIS project, mSEK 1,4
10. 2015–17 “Price areas, price formation and competition.” The Swedish Competition Authority, mSEK 2,0
11. 2007–14 “The economics of electricity markets.” Elforsk and The Swedish Energy Agency, mSEK 27,2
12. 2004–07 “Competition and regulation in electronic communications.” Jan Wallanders och Tom Hedelius stiftelse and The Swedish Competition Authority, mSEK 1,2
13. 1996–04 Doctoral and Post-Doctoral Grants. Jan Wallanders och Tom Hedelius stiftelse, mSEK 1,8

HONOURS AND AWARDS

1. The 2003 Young Economist Essay Competition Award at the 30th Annual Congress of the European Association for Research in Industrial Economics (EARIE)
2. The 2002 Young Economist Award at the 17th Annual Congress of the European Economic Association (EEA)

JOURNAL PUBLICATIONS

1. A survey of capacity mechanisms: lessons for the Swedish electricity market (with Pär Holmberg). *The Energy Journal*, Vol. 44, Number 6, November 2023, 275-304
2. A survey comparing centralized and decentralized electricity markets (with Victor Ahlqvist)

- and Pär Holmberg). *Energy Strategy Reviews*, Vol. 40, March 2022, 100812
3. Economics of international investment agreements (with Henrik Horn). *Journal of International Economics*, Vol. 131, July 2021, 103433
 4. Cournot competition in wholesale electricity markets: The Nordic power exchange, Nord Pool (with Erik Lundin). *International Journal of Industrial Organization*, Vol. 68, January 2020, 1-20
 5. Real-time versus day-ahead market power in a hydro-based electricity market (with Johannes Mauritzen). *Journal of Industrial Economics*, Vol. 66, Issue 4, December 2018, 904-941
 6. Equilibrium supply security in a multinational electricity market with renewable production. *Energy Economics*, Vol. 72, May 2018, 416-435
 7. Energy system transition in the Nordic market: Challenges for transmission regulation and governance (with Anna Grigoryeva and Mohammad R. Hesamzadeh). *Economics of Energy & Environmental Policy*, Vol. 7, Issue 1, January 2018, 127-146
 8. International network competition under national regulation (with Joacim Tåg). *International Journal of Industrial Organization*, Vol. 47, July 2016, 152-185
 9. Renewable electricity policy and market integration. *The Energy Journal*, Vol. 36, Number 4, October 2015, 331-353
 10. Nuclear capacity auctions (with Sven-Olof Fridolfsson). *The Energy Journal*, Vol. 36, Number 3, July 2015, 247-261
 11. Network competition with income effects. *RAND Journal of Economics*, Vol. 45, Issue 3, Fall 2014, 645-673
 12. A reexamination of renewable electricity policy in Sweden (with Sven-Olof Fridolfsson). *Energy Policy*, Vol. 58, July 2013, 57-63
 13. Optimal transmission regulation of an integrated energy market. *Energy Economics*, Vol. 34, Issue 5, September 2012, 1644-1655
 14. Market power in the Nordic electricity wholesale market: A survey of the empirical evidence (with Sven-Olof Fridolfsson). *Energy Policy*, Vol. 37, Issue 9, September 2009, 3681-3692
 15. Yardstick competition and quality. *Journal of Economics & Management Strategy*, Vol. 18, Issue 2, Summer 2009, 589-613
 16. Democracy, autocracy and the likelihood of international conflict. *Economics of Governance*, Vol. 10, Issue 2, April 2009, 99-117
 17. Ethnic diversity, civil war and redistribution (with Nils-Petter Lagerlöf). *Scandinavian Journal of Economics*, Vol. 111, Issue 1, March 2009, 1-27
 18. Unilingual versus bilingual education: A political economy analysis (with Javier Ortega). *Journal of the European Economic Association*, Vol. 6, Issue 5, September 2008, 1078-1108
 19. From rent seeking to human capital: a model where resource shocks cause transitions from stagnation to growth (with Nils-Petter Lagerlöf). *Canadian Journal of Economics*, Vol. 41, Issue 3, August 2008, 760-780
 20. Voter turnout in small referendums (with Morten Søberg). *Electoral Studies*, Vol. 26, Issue 2, June 2007, 445-459
 21. Collusion-proof yardstick competition. *Journal of Public Economics*, Vol. 83, Issue 2, February 2002, 231-254

BOOKS, CHAPTERS IN EDITED VOLUMES

1. Transmission network investment across national borders: The liberalized Nordic electricity market (with Lars Persson). In: Mohammad Reza Hesamzadeh, Juan Rosellón and Ingo

Vogelsang (eds.) *Transmission Network Investment in Liberalized Power Markets*. Springer Lecture Notes in Energy Vol. 79, 2020, 557-594

2. *Energimarknaden, ägandet och klimatet* (with Tommy Lundgren, Jesper Stage and Björn Carlén). SNS Förlag, 2013
3. En gemensam elmarknad stärker EU:s konkurrenskraft (with Pär Holmberg). In: Antonina Bakardjieva Engelbrekt, Lars Oxelheim and Thomas Persson (eds.): *Ett konkurrenskraftigt EU till rätt pris – Europaperspektiv 2013*, Santérus Förlag, 2013
4. Designing electricity auctions: Introduction and overview. *Utilities Policy*, Vol. 18, Issue 4, December 2010, 163-164

WORKING PAPERS

1. Paying with personal data (with Gisle J. Natvik), IFN WP 1481, 2023
2. National transmission system operators in an international electricity market (with Henrik Horn). IFN WP 1394, 2021
3. Contracting with endogenously incomplete commitment: Escape clauses (with Wolfgang Gick). IFN WP 1390, 2021
4. Competition for flexible distribution resources in a ‘smart’ electricity distribution network. IFN WP 1351, 2020
5. Locational marginal network tariffs for intermittent renewable generation (with Frank A. Wolak). IFN WP 1310, 2019
6. Dispute settlement in international investment agreements (with Henrik Horn). IFN WP 1248, 2018
7. The competitive effects of linking electricity markets across space (with Frank A. Wolak). IFN WP 1140, 2017

POLICY REPORTS

1. Konkurrensen på den nordiska elmarknaden – vad säger den senaste forskningen? Konkurrensverket Uppdragsforskningsrapport 2023:7
2. Internationell integration av den svenska elmarknaden (with Pär Holmberg), Forskningsrapport SNS, 2023
3. En teknikneutral elmarknad – med en effektiv elmarknadsdesign och nättariffstruktur (with Pär Holmberg). Forskningsrapport SNS, 2023
4. Den svenska elmarknaden – idag och i framtiden (with Pär Holmberg). *Penning- och valutapolitik*, Nr 1, 2023, 5-35
5. Framtidens elmarknadsdesign – utmaningar och möjligheter (with Runar Brännlund, Niclas Damsgaard, Bo Diczfalusy and Thomas Unger). Energiforsk Rapport 2022:893
6. Elbrist i storstäderna – ett marknadsperspektiv (with Pär Holmberg). Forskningsrapport SNS, 2022
7. En elmarknad med enhetliga priser för förbrukning (with Pär Holmberg). IFN Report, December 13, 2021
8. Sweden’s energy investment challenge (with Pär Holmberg). IFN WP 1383, 2021
9. Reformen för mer marknadsekonomi på elmarknaden. Timbro Briefing Paper #31, 2021
10. Incitamenten att investera i produktion på elmarknaden (with Pär Holmberg). Report to the Confederation of Swedish Enterprise, October 23, 2020
11. En samhällsekonomisk analys av konsekvenserna av att stänga ner eller begränsa tjänsteutbudet i ett befintligt kabel-TV-nät. Report to Com Hem AB, 2015
12. Investeringar på elmarknaden – fyra förslag för förbättrad funktion (with Sven-Olof

- Fridolfsson). Report to Expertgruppen för miljöstudier, 2011:5
13. Är vindkraftskooperativens priser marknadsmässiga? Report commissioned by Svensk Vindenergi, 2009
 14. Kollektiv anslutning av TV/bredband - ett konkurrensproblem? Konkurrensverket Uppdragsforskningsrapport 2009:6
 15. Ekonomisk analys av SMP-bedömningar (with Johan Stennek). Report to Tele2 Sverige AB, 2003
 16. Skälig och marknadsmässig samtrafikersättning (with Johan Stennek). to Tele2 Sverige AB, submitted to Länsrätten i Stockholm, 2002
 17. Efficiency problems within the adult education initiative – a rudimentary analysis. Report commissioned by the Swedish Agency for Public Management (Statskontoret), 2000

PODCASTS

1. Svensk elproduktion förklarad, Timbro podcast. October 20, 2022
2. Så fungerar elmarknaden, Timbro podcast. September 7, 2022
3. Energikrisen – låsningar och lösningar (with Pär Holmberg). IFN podden, September 6, 2022
4. Mindre politik, mer marknad – en podd om framtidens elmarknad (with Pär Holmberg). IFN podden, October 23, 2020
5. Who wants to ride the Swedish nuclear rollercoaster? *IEAA Podcast Series*, October 22, 2020
6. 20 % högre elpris? (with Erik Lundin) IFN podden, March 17, 2016

POPULAR PRESS, NEWSLETTERS, OTHER

1. Remissvar på ”Finansiering och riskdelning vid investeringar i ny kärnkraft” (with Erik Lundin and Pär Holmberg), October 1, 2024
2. Kärnkraftens bidrag är inte oersättligt (with Pär Holmberg), *SvD.se Debatt*, December 23, 2023
3. Vänta med statligt stöd till ny kärnkraft (with Pär Holmberg), *SvD Debatt*, December 15, 2023
4. Integration av elmarknaden handlar om mer än elpriser (with Pär Holmberg), *DN.se Debatt*, December 5, 2023
5. Nationalistisk energipolitik går emot svenska intressen (with Pär Holmberg), *DN Debatt*, November 27, 2023
6. Elmarknadsperspektiv på John Hasslers klimatförslag (with Pär Holmberg), November 21, 2023
7. Politisk favorisering försvårar Sveriges energiförsörjning (with Pär Holmberg). *DI Debatt*, September 27, 2023
8. Remissvar på ”Framtidens kapacitetsmekanism för att säkerställa resurstillräcklighet på den svenska elmarknaden” av Svenska kraftnät (with Pär Holmberg), August 29, 2023
9. Säkra elförsörjningen med bättre verktyg (with Pär Holmberg). *SvD.se Debatt*, April 22, 2023
10. Säg nej till Svenska kraftnäts planmonopol (with Pär Holmberg). *SvD Debatt*, April 18, 2023
11. Intäktstaket skymmer underliggande problem (with Pär Holmberg). *SvD.se Debatt*, March 3, 2023
12. Intäktstak för el passar inte i Sverige (with Pär Holmberg). *SvD Debatt*, February 25, 2023
13. Missförstånd i elmarknadsdebatten (with Pär Holmberg). *DI.se Debatt*, February 8, 2023
14. EU:s gemensamma elmarknad gynnar även Sverige (with Pär Holmberg). *DN.se Debatt*, 30 January, 2023

15. Tre förslag för att minska den lokala bristen på el (with Pär Holmberg). *DN Debatt*, September 1, 2022
16. Skyddat elpris kan förvärra problemen (with Pär Holmberg). *SvD Debatt*, August 12, 2022
17. Dagens regler gynnar väderberoende elproduktion. *DN.se Debatt*, July 7, 2022
18. Valsymposium: En effektiv elförsörjning på kort och lång sikt (with Pär Holmberg and Erik Lundin). *Ekonomisk Debatt*, No 3, 2022, 73-78
19. Att slå ihop elområden löser inte problemen (with Pär Holmberg). *SvD Debatt*, November 13, 2021
20. Även effektiv elförbrukning viktig för en välfungerande elförsörjning (with Pär Holmberg). *Ekonomisk Debatt*, No. 4, 2021, 81-82
21. Hellre effektreserv än kapacitetsmarknad (with Pär Holmberg). *Second Opinion*, April 13, 2021
22. Problemen med elområden är hanterbara (with Pär Holmberg). *DN.se Debatt*, March 2, 2021
23. Skapa fler prisområden och låt elpriserna öka runt storstäderna (with Pär Holmberg). *DN Debatt*, February 25, 2021
24. Incitamenten att investera i produktion på elmarknaden (with Pär Holmberg). *Ekonomisk Debatt*, No. 1, 2021, 66-77
25. Stabil elproduktion uppmuntras inte av elmarknaden. *DN.se Debatt*, March 25, 2019
26. Centralstyrd elhandel knappast rätt väg att gå (with Pär Holmberg). *SvD.se Debatt*, December 27, 2018
27. EU gör det svårt att minska flygets klimatpåverkan. *DN.se Debatt*, April 17, 2018
28. Virtues and vices of international investment agreements (with Henrik Horn). *IFN Newsletter* #1, 2017
29. Book review of François Lévêque: The Economics and Uncertainties of Nuclear Power. *Economics of Energy & Environmental Policy*, Vol. 5, Issue 2, September 2016, 139-141
30. Vad händer om kärnkraften läggs ner? (with Erik Lundin) *Kvartal.se*, March 18, 2016
31. Släckta kabel-TV-nät försämrar konkurrensen. *Dagens Samhälle*, November 27, 2015
32. National policies for renewable electricity are an obstacle to market integration in the European Union. *IAEE Energy Forum*, Third Quarter, 2014, 33-34
33. Vi kan stänga två kärnkraftsreaktorer (with Erik Lundin). *Expressen Debatt*, July 15, 2014
34. Begränsa det offentliga ägandet. *SvD Brännpunkt*, August 29, 2013
35. Elprisskillnaderna i Sverige är motiverade - slutreplik (with Sven-Olof Fridolfsson and Pär Holmberg). *SvD.se Brännpunkt*, March 25, 2013
36. Backa inte från reformen med elområden (with Sven-Olof Fridolfsson and Pär Holmberg). *SvD.se Brännpunkt*, March 15, 2013
37. Elområden viktiga för en effektivare elmarknad (with Pär Holmberg). *DN.se Debatt*, March 5, 2012
38. Slöseri att inte genast införa timdebitering av hushållsel (with Sven-Olof Fridolfsson). *DN Debatt*, November 11, 2011
39. Norge låg bakom vinterns rekordhög svenska elpriser (with Sven-Olof Fridolfsson). *DN Debatt*, October 1, 2010
40. Släpp fram fler ägare till svenska kärnkraftverk (with Sven-Olof Fridolfsson). *SvD Brännpunkt*, June 17, 2010
41. Priserna på elmarknaden måste tåla en granskning (with Sven-Olof Fridolfsson). *DN Debatt*, December 29, 2009
42. Fungerar konkurrensen på elmarknaden? (with Sven-Olof Fridolfsson). *Ekonomisk Debatt*,

No. 8, 2009, 21-37

43. Piska bättre än morot när hushållen ska spara energi (with Sven-Olof Fridolfsson). *DN Debatt*, July 14, 2009
44. Är mobiltelemarknaden mogen för avreglering? (with Johan Stennek) *Ekonomisk Debatt*, No. 5, 2007, 60-66
45. Better regulation of mobile telecommunications (with Johan Stennek). *SIEPS European Policy Analysis* #1, 2007
46. Är telemarknaden mogen för avreglering? Forskningen pekar i en annan riktning (with Johan Stennek). *IFN Newsletter* #1, 2007
47. Comment on Lars Hultkrantz: Telecommunications liberalisation in Sweden: Is 'intermediate' regulation viable? *Swedish Economic Policy Review*, Vol. 9, No.2, Fall 2002, 163-165

ORGANIZATION OF CONFERENCES/WORKSHOPS

1. Sustainable Energy Transition, IFN Waxholm Conference, 2024
2. Nordic Workshop on Industrial Organization, NORIO XII (with Mats Bergman and Richard Friberg), 2023
3. Swedish Workshop on Industrial Organization (with Mats Bergman and Andreaa Enache), 2022
4. Workshop on Industrial Organization (with Mats Bergman, Andreaa Enache and Jonas Häckner), 2021
5. Nordic Workshop on Industrial Organization, NORIO XI (with Mats Bergman and Richard Friberg), 2019
6. The Performance of Electricity Markets, IFN Waxholm Conference, 2014
7. IAEE International Conference (concurrent sessions chair), 2011
8. Designing Electricity Auctions (with Pär Holmberg), 2009
9. Nordic Workshop on Electricity Economics (NOREL) (with Sven-Olof Fridolfsson), 2008
10. Nordic Workshop on Industrial Organization, NORIO VI (with Johan Stennek), 2007

CONFERENCE/SEMINAR PRESENTATIONS

Summer in Tel Aviv 1998, ESEM-EEA Meetings 1998, 2002, 2006 and 2007, EEA Summer School 1999, EARIE Meetings 2003, 2006 and 2012, IAEE International Conference 2009-11, 2014, 2017 and 2024, MCEE Mannheim 2013, 2017, 2019, 2021 and 2022, The Economics of Energy and Climate Change (U Toulouse) 2017 and 2023, Aalto U, BI Norwegian Business School, Cambridge U, Gothenburg U, IFN, IIES (Stockholm U), Luleå TU, Lund U, Macquarie U, Norwegian School of Economics, Stanford U, Statistics Norway, Stockholm School of Economics, Stockholm U, Telecom ParisTech, TILEC (Tilburg U), U Bozen/Bolzano, U Copenhagen, U Munich, U Oslo, U Sydney, U Toulouse, Uppsala U

REFEREE FOR

Annals of Public and Cooperative Economics, BE Journal of Theoretical Economics, Econometrica, Economic Inquiry, Economic Journal, Economics of Energy & Environmental Policy, Economics of Governance, Energies, Energy Economics, Energy Journal, Energy Policy, Energy Systems, European Economic Review, Information Economics & Policy, International Journal of Industrial Organization, Journal of Economic Behavior & Organization, Journal of Economics & Management Strategy, Journal of International Economics, Journal of Public Economic Theory, Journal of Public Economics, Operations Research, RAND Journal of

Economics, Review of Industrial Organization, Review of Network Economics, Scandinavian Journal of Economics, Swiss Political Science Review, Utilities Policy

SUPERVISION OF DOCTORAL STUDENTS

1. Erik Lundin: Empirical essays on strategic behavior in the electricity and water sectors. Assistant supervisor. Main supervisor: Richard Friberg, Stockholm School of Economics, 2016
2. Sara Fogelberg: Markets, interventions and externalities. Four essays in applied economics. Assistant supervisor. Main supervisor: Mikael Priks, Stockholm University, 2015
3. Ewa Lazarczyk Carlson: Essays on electricity markets: Information and trading. Assistant supervisor. Main supervisor: Richard Friberg, Stockholm School of Economics, 2014

EXTERNAL EXAMINATION OF GRADUATE STUDENTS

1. Pratompong Srinuan, PhD Thesis, Chalmers University of Technology, 2012
2. Hans Nylund, Licenciate Thesis, Luleå Technical University, 2010
3. Tommy Andersson, Licenciate Thesis, Lund University, 2001