

## Curriculum Vitae, Endre Tvinnereim

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### BIOGRAPHICAL SKETCH

I am a Senior Researcher at NORCE and the Centre for Climate and Energy Transformation (CET) at the University of Bergen (UiB). My main research interests are comparative public opinion on climate policies, quantitative text analysis in survey research and evidence-based evaluations of cap-and-trade and other CO<sub>2</sub> pricing mechanisms. In my previous position at Thomson Reuters Point Carbon, I analysed emission trading and climate policies in Europe and internationally, writing subscription-based and consultancy reports, maintaining emission data sets and communicating with customers. This work gave me ideas for research topics for later publications, networks in industry and government, and experience in communicating with non-scientific audiences. I also gained experience running large surveys, which I have built on in my current work leading the Climate and Environment section of the Norwegian Citizen Panel. I believe in data sharing and routinely publicise the data and code for my publications in open depositories.

### EDUCATION

- 2005 PhD in Political Science, Department of Government, Harvard University, Cambridge, Massachusetts, US. Dissertation: "Democracy in Europe's Regions: Party Competition, Government Accountability, and Citizen Satisfaction." Main advisor: Peter A. Hall.
- 1999 Master of Arts, Department of Government, Harvard University.
- 1997 Bachelor of Arts, Columbia University, New York, NY, US. Major: Political Science. *Summa cum laude*. Senior seminars: Environment and Development; International Political Economy.
- 1997 *Candidatus Magisterii* (BA equivalent), University of Bergen, Norway. Major: Russian and linguistics.

### CURRENT AND PREVIOUS POSITIONS

- 2011 – present Senior Researcher. NORCE Society, Bergen, Norway (previously Uni Rokkan Centre).
- 2017 – present Adjunct Senior Researcher. Centre for Climate and Energy Transformation (CET), University of Bergen, Norway.
- 2006 – 20011 Senior Analyst / Editor, Carbon Markets Europe. Thomson Reuters Point Carbon, London, UK; Bergen/Oslo, Norway.

### FELLOWSHIPS AND MOBILITY

- 2014 Center for Advanced Study in the Behavioral Sciences, Stanford University, Feb-March.
- 2003 Visiting student, Nuffield College, University of Oxford, Jan-Jun.
- 2002 – 2003 Krupp Fellowship, Center for European Studies, Harvard University, US.
- 1999 – 2000 Institut d'Etudes Politiques de Paris, France. Harvard GSAS - Sciences Po Exchange Fellowship, US/France. Additionally Edmund J. Curley award, Harvard University, US.
- 1997 – 1999 Government Department Fellowship, Harvard University, US.
- 1995 – 1997 Johan Jørgen Holst Scholarship, Columbia College, US. This competitive grant is awarded to one student every 3 years and covers tuition and some costs toward the BA degree in social sciences.

### TEACHING AND MENTORING

As I work at a research centre, there are few venues for tutoring doctoral or master's students formally. However, CET has given me the opportunity to advise two Ph. D. students. I have also supported the research planning of three master's students as group leader at DIGSSCORE, and routinely give feedback on survey design by students and junior researchers. I have developed curricula for two courses and regularly give guest lectures in climate and energy policy and environmental opinion.

- 2017 Course co-instructor, *Survey Experiments: Design and Analysis*. University of Bergen. With Prof. Michael R. Tomz, Stanford University. Average student evaluation 4.61 (1-5)

- scale; N=18).
- 2017 Introduction to quantitative text analysis, staff seminar, University of Bergen.
- 2016 Guest lecturer, Interviewing and data analysis, Institute of Administration and Organization Theory, University of Bergen (Aorg 321).
- 2007 – 2016 Guest lecturer in carbon markets, Norwegian School of Economics (NHH) summer school and Natural Resources Management course (ENE 421).
- 2010 Programme co-director, Carbon Finance and Analytics Programme, London Business School (LBS) and Point Carbon (with Professor Derek Bunn, LBS). Four sessions throughout the year, for a total of 10 days.
- 2010 Invited guest lecturer, International Carbon Action Partnership (ICAP) Summer School, The Hague, Netherlands, 5 August. “Carbon Market Dynamics: Price Formation, Creating Scarcity, Causes and Solutions for Volatility.”
- 2009 Invited lecturer, Bergen Summer Research School (June): “Political science approaches to climate change policy.”
- 2004 Head Teaching Fellow, *Constitutionalism* (undergraduate core course), Prof. C. Skach, Harvard University.

### **INSTITUTIONAL RESPONSIBILITIES (if applicable)**

I have been member of two hiring committees at CET, for research coordinator and three Ph. D. students, and for two researchers at NORCE. In the period 2012-2017 I organised the Interdisciplinary Climate and Energy Research Group Seminar at the University of Bergen. I have been external examiner in five cases across three institutions: University of Bergen, Norwegian School of Economics (NHH) and Norwegian Business School (BI).

### **COMMISSIONS OF TRUST (if applicable)**

- 2018 – present Executive Council member for the Science, Technology & Environmental Policy (STEP) section of the American Political Science Association
- 2016 – present Editorial Board, *Scientific Data* (<http://www.nature.com/sdata>).
- 2013 – present Coordinator of the Climate Change and Environment research group of the Norwegian Citizen Panel, Uni Research and University of Bergen, Norway
- 2012 – present Reviewer for journals *Scientific Data*, *Global Environmental Change*, *Climate Policy*, *Energy Policy*, *Journal of Energy and Natural Resources Law*, *Review of Policy Research*, *Environmental Policy and Governance* and *Natural Hazards*.
- 2015 Evaluator for open category proposals for the Norwegian Citizen Panel
- 2013 Expert Reviewer for Intergovernmental Panel on Climate Change (IPCC) Working Group 3

### **MAJOR COLLABORATIONS / PROJECTS**

- 2017-2020 Hidden costs of implementing afforestation as a climate mitigation strategy: A comprehensive assessment of direct and indirect impacts. Work package leader. An interdisciplinary project on ecosystem and societal effects of afforestation, using innovative survey experiments informed by in-house biogeochemistry results. Funder: Research Council Norway (RCN).
- 2017-2020 Analyzing past and future energy industry contractions: Towards a better understanding of the flip-side of energy transitions. Work package leader. My role is to analyse historical cases of decline in energy industries including societal effects. Funder: RCN.
- 2016-2019 Pathways to Energy Transition. Project coordinator. Survey experiments on perceptions of energy transitions using open-ended questions and quantitative text analysis. Funder: *Akademia* agreement UiB-Equinor.
- 2016-2017 Empirical investigation of the effects of carbon pricing on emissions. Principal investigator. The project examined the role of carbon taxes and cap-and-trade in past and present climate policy, and suggested future directions for reaching the targets under the Paris Agreement. Funder: RCN.
- 2015-2017 European Perceptions of Climate Change: Scepticism, energy preferences and societal transformation (EPCC). Conducted coordinated population surveys in four countries (DE, FR, GB, NO). PI: Pidgeon (Cardiff). Funder: Joint Programming Initiative and RCN.
- 2014-2017 Transforming Climate Knowledge with and for Society (TRACKS). Funder: RCN.
- 2017-2020 Understanding the international context for Norway's low-emission economy Transition. (CONNECT). My role is to analyse Norway's role in European emission trading. RCN.

- 2018-2021 Changing Nature. A lexical and argumentative analysis of public debates on nature. RCN.  
 2015-2016 Societal aspects of climate change on Svalbard. Principal investigator. Funder: Norwegian Polar Institute.

### CAREER BREAKS / UNCONVENTIONAL CAREER PATH

- 2.1.2006 – 30.9.2011. After finishing my Ph. D. I was employed as Senior Analyst and Editor, Carbon Markets, Thomson Reuters Point Carbon (70 months), before returning to academic research in 2011. At Thomson Reuters, I served as a policy and market analyst within greenhouse gas emission markets and other regulations, producing subscription-based publications, courses and the company's annual Carbon Market Survey. I edited the monthly Carbon Market Monitor from 2007 to 2009, and supervised the transfer of the task to a new editor in 2009 as well as the work of junior analysts. Our clients were power companies, heavy industry, banks, funds and governments. The work gave me valuable experience in writing analysis documents for a broader informed audience.
- 2005 and 2009 Parental leave for first child born in 2005 (six months, July-Dec 2005) and for second child born 2008 (4.5 months, Aug-Dec 2009).

### PUBLICATIONS

*Total publications: 30. Total Google Scholar citations: 374; h-index: 9. See home page for full list.*

- Tvinnereim E and Fløttum K. (2015) "Explaining topic prevalence in open-ended survey questions on climate change." **Nature Climate Change** 5: 744–747 (32 citations).
- Tvinnereim E and Ivarsflaten E. (2016) "Fossil fuels, employment, and support for climate policies." **Energy Policy** 96: 364-371 (17 citations).
- Tvinnereim E. (2014) "The bears are right: Why cap-and-trade yields greater emission reductions than expected, and what that means for climate policy." **Climatic Change** 127: 447-461 (9 citations).
- Salway A, Touileb S and Tvinnereim E. (2014) "Inducing Information Structures for Data-driven Text Analysis." Association for Computational Linguistics (ACL). Annual Meeting Conference Proceedings (8 citations).
- Tvinnereim E, Lachapelle E and Borick CP. (2017) "Is Support for International Climate Action Conditional on Perceptions of Reciprocity? Evidence from Three Population-Based Survey Experiments in Canada, the US, and Norway." *Cosmos: Proceedings of the Singapore Academy of Sciences* 12 (1): 43-55 (4 citations).
- Tvinnereim E, Fløttum K, Gjerstad Ø, et al. (2017) Citizens' preferences for tackling climate change. Quantitative and qualitative analyses of their freely formulated solutions. **Global Environmental Change** 46: 34-41.
- Tvinnereim E, Liu X and Jamelske EM. (2017) "Public perceptions of air pollution and climate change: different manifestations, similar causes, and concerns." **Climatic Change** 140: 399-412.
- Stark, T., H. Silber, J. A. Krosnick, A. G. Blom, M. Aoyagi, A. Belchior, M. Bosnjak, S. L. Clement, M. John, G. A. Jónsdóttir, K. Lawson, P. Lynn, J. Martinsson, D. Shamshiri-Petersen, E. Tvinnereim and R.-r. Yu. (2018) "Generalization of Classic Question Order Effects across Cultures." *Sociological Methods and Research*, 1-36.
- Tvinnereim, E. and M. Mehling (2018). "Carbon pricing and deep decarbonisation." *Energy Policy* 121: 185-189.
- Genovese, F. and E. Tvinnereim (2018). "Who opposes climate regulation? Business preferences for the European emission trading scheme." *The Review of International Organizations*.

### OTHER PUBLICATIONS AND DATA SETS

- 2018 Mehling, M. and Tvinnereim, E. «Carbon pricing and the 1.5°C target : near-term decarbonisation and the importance of an instrument mix.» *Carbon and Climate Law Review*, 12 (1). pp. 50-61.
- 2017 Mehling, M. and E. Tvinnereim. "Pricing not enough for deep carbon cuts." **Nature** 552 (7684): 175. Letter to the editor, 14 December.
- 2017 Steentjes, K., N. F. Pidgeon, W. Poortinga, A. J. Corner, A. Arnold, G. Böhm, C. Mays, M. Poumadère, M. Ruddat, D. Scheer and E. Tvinnereim. "European Perceptions of Climate Change (EPCC): Topline findings of a survey conducted in four European countries in 2016." (13 citations)
- 2016 Arnold, A., Böhm, G., Corner, A., Mays, C., Pidgeon, N., Poortinga, W., ... & Tvinnereim, E. (2016). *European Perceptions of Climate Change. Socio-political Profiles to Inform A Cross-national Survey in France, Germany, Norway and the UK, Climate Outreach* (4 citations).
- 2016 "Perceptions of climate change in rural Bangladesh: Analysing narrative interviews using qualitative and quantitative methods." *Nordic Conference on Climate Change Adaptation, Bergen, Norway*.

- 2016 Tvinnereim E., E. Angell, E. W. Kolstad, O. A. Brekke, S. Mortensen. “De samfunnsmessige aspektene av klimaendringer på Svalbard” [societal aspects of climate change on Svalbard], in C. H. von Quillfeldt et al., “Klimaendringer på Svalbard: effekter på naturmangfold og konsekvenser for den fremtidige naturforvaltningen.” Tromsø: Norwegian Polar Institute.
- 2015 Tvinnereim E. “Klimakvoter: Bedre enn sitt rykte, men langt fra nok.” [Emission permits: Better than their reputation, but not enough.] *Røyst* 2 (4), 73-80.
- 2015 Tvinnereim E and K. Fløttum. “Replication data for: Explaining topic prevalence in answers to open-ended survey questions about climate change.” Harvard Dataverse. doi/10.7910/DVN/28689
- 2015 Tvinnereim, E. “A polarized climate? Party sorting over climate change and the environment among candidates and voters in Europe.” Working paper 1-2015, Uni Research Rokkan Centre
- 2013 Tvinnereim, E. and Dolšak, N. “Urban Climate Change Policies in the Transportation Sector: Approaches and Outcomes.” Paper presented at the 2013 Annual Meeting of the American Political Science Association, Chicago, IL.
- 2013 Tvinnereim, E. “Kvotehandling: Flaggskip i dødvanne.” [Cap-and-trade: Flagship in dead waters.] In Europas grønne skifte, edited by O. A. Øvrebø. Bergen: Norwegian Climate Foundation, report 1/2013, 22-25.
- 2011 Tvinnereim, E., E. Zelljadt, N. Yakymenko and E. Mazzacurati. “Carbon 2011.” Annual greenhouse gas trading survey report by Thomson Reuters Point Carbon (31 citations).
- 2011 Tvinnereim, E. “Europe’s renewable energy target and the carbon market.” Thomson Reuters Point Carbon Carbon Market Analyst report, 1 November.
- 2010 Tvinnereim, E. and K. Røine. 2010. “Carbon 2010: Return of the Sovereign.” Annual greenhouse gas trading survey report by Point Carbon (33 citations).
- 2009 Tvinnereim, E., K. Røine, C. Heimdal. “Carbon 2009: Emission Trading Coming Home.” Annual greenhouse gas trading survey report by Point Carbon (35 citations).
- 2008 Tvinnereim, E. and K. Røine. “Carbon market transactions in 2020: Dominated by financials?” Point Carbon Carbon Market Analyst report (9 citations).
- 2008 Røine, K., E. Tvinnereim, H. Hasselknippe “Carbon 2008: Post-2012 is now.” Annual greenhouse gas trading survey report by Point Carbon (60 citations).
- 2004 Tvinnereim, E. Democratic Contestation and Citizen Satisfaction in German States. Unpublished manuscript. Harvard University (5 citations).

#### **MONOGRAPH**

- 2005 Harvard University PhD dissertation. “Democracy in Europe’s Regions: Party Competition, Government Accountability, and Citizen Satisfaction.” Supervisor: Peter A. Hall. Co-supervisors: James E. Alt, Cindy Skach, Jonathan Rodden.

#### **INVITED PRESENTATIONS TO MAJOR INTERNATIONAL CONFERENCES**

- 2017 “CO<sub>2</sub> pricing: Economics, energy security, and implications for climate models.” Presented at the Annual Meeting of the American Political Science Association, San Francisco.
- 2017 “Storms, ice and conspiracies: Explaining what people in four European countries associate with climate change.” Society for Risk Analysis Europe, Lisbon, June 19-21.
- 2016 “Perceptions of climate change in rural Bangladesh: Analysing narrative interviews using qualitative and quantitative methods.” Nordic Conference on Climate Change Adaptation, Bergen, Norway.
- 2014 Panel organiser, “New approaches to public opinion and climate change,” American Political Science Association Annual Meeting, Washington, D. C., US.

#### **OUTREACH AND DISSEMINATION**

- 2016 Prepared written analysis for for Member of the Norwegian Parliament Per Olaf Lundteigen on the work of the Office of the Auditor General of Norway (*Riksrevisjonen*) to follow up the EU ruling against Norway on local air quality.
- 2012 Oral presentation to the Environment and Energy committee of the Norwegian Parliament: “Cap-and-trade, carbon leakage and the use of multiple policy instruments,” 14 May 2012.

#### **SELECTED NEWS MEDIA COVERAGE OF RESEARCH, INTERVIEWS AND QUOTES**

Aftenposten, Associated Press, Bergens Tidende, Christian Science Monitor, Fox News online, The Guardian, New York Times, NRK TV (Norwegian public broadcaster), Reuters.  
 Film interview: “Når vi snakker om klima” (“Speaking of the climate”), by Anwar Saab, 2015.