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Free riding och fåtalskonkurrens i förpackningsmaterial

Av professor Thomas Sterner

Svenska Förpacknings- och Tidningsinsamlingen AB (FTI) vill fördjupa sig i de miljöekonomiska argumenten som är relevanta för Naturvårdsverkets tillsynsärende dnr NV-05471-20 mot bolaget TMR Responsilbity AB och TMR:s kunder (bl.a. ett par större internationella livsmedelskoncerner).

Bakgrunden är att förpackningsproducenter är skyldiga att sörja för att samla in de förpackningar de har satt på marknaden. Dessa skall inte förorena naturen och kostnaden för insamling och hantering, återvinning mm, skall inte belasta den offentligt finansierade "sophämtningen". Enligt gällande lagstiftning skall industrin (d.v.s. producenterna) inte bara se till att ta hand om förpackningarna, det står dessutom särskilt angivet att industrin skall tillse att det finns ett lämpligt insamlingssystem - ett system som är placerat på mark som var och en har tillträde till.¹

De flesta industrier anlitar FTI, ett icke-vinstdrivande företag som skapats för syftet. FTI har byggt upp ett sådant ÅVS-system som är relativt omfattande och dyrt i drift (i storleksordningen en miljard kronor om året). Några förpackningsproducenter väljer istället att anlita TMR. TMR har inget insamlingssystem "på mark" utan köper avfall som samlas in exempelvis av större fastighetsägare som tillhandahåller soprum med sorteringsmöjlighet. I och med att TMR inte följer lagstiftningens krav på insamlingssystem som är tillgängligt för alla har de lägre kostnader och deras möjlighet att locka till sig kunder tycks vara baserat till mycket stor del på att de har lägre kostnader.

Huvudfrågan är om det är effektivt att tillåta TMR:s position som insamlingssystem – en "fringe competitor".² TMR kan hävda att de fullgör sina förpliktelser genom att köpa upp lika mycket förpackningar som satts på marknaden av deras kunder. TMR:s kunder skulle därigenom kunna hävda att de fullgör sina skyldigheter – förpackningsproducenternas producentansvar – genom att samma mängd förpackningar hanteras av TMR. Det är dock tydligt att med nuvarande lagstiftning så räcker det inte att hantera ett visst tonnage förpackningsmaterial, TMR fullgör inte alla sina skyldigheter enligt lagstiftningen eftersom de inte bekostar en sådan infrastruktur som lagstiftningen särskilt kräver.

I bakgrunden finns det sedvanliga problemet med optimal reglering av sådant som tidigare varit offentlig service med inslag av sk naturligt monopol.³ Sådana inslag

¹ Beslut från Patent- och Marknadsöverdomstolen av den 28 februari 2020. Det har inte ingått i mitt uppdrag att ifrågasätta domstolens beslut utan min utgångspunkt har varit att den juridiska bedömningen är korrekt och mitt utlåtande bygger på denna utgångspunkt.

² En sk fringe competitor betyder egentligen bara att konkurrenten har en liten eller till och med obetydlig marknadsandel. Därmed ändrar den endast i liten utsträckning den större producentens beteende. Se vidare <https://stats.oecd.org/glossary/detail.asp?ID=3199>

³ Det låter i offentlig debatt ibland som att valet står mellan effektivitet genom fri konkurrens och marknad å ena sidan och stelbent, ineffektivt offentligt monopol å den andra. Så enkelt är det inte. När det finns förutsättningar för naturligt monopol, med bl a existensen av dyr infrastruktur som inte utan vidare kan dupliceras,

finns inom skolverksamhet, post, sjukvård och mycket annat. Särskilt relevant är kanske jämförelsen med järnvägar där det ju krävs en synnerligen dyr infrastruktur i form av spår mm, som rimligen inte varje producent kan tillhandahålla separat. Av denna anledning har man skiljt på infrastruktur och tågtrafik. Ett aktuellt exempel utgörs också av privatiseringen av Telia. Ansvarig näringsminister Björn Rosengren menar att man gjort fel som inte skiljt ut själva infrastrukturen, dvs nätet, innan man privatiserade år 2000, och att man idag borde återförstatliga själva infrastrukturen (DN 210502). I förpackningssammanhanget är infrastrukturen just det dyra ÅVS-systemet. I ett tidigare skede var TMR med och betalade för ÅVS-systemet ungefär så som oberoende järnvägsbolag eller elproducenter betalar för spår och ledningsnät. TMR har dock efter domstolsprövning inte längre tillgång till ÅVS och hävdar nu att det räcker att de istället köper upp returmaterial som nämnts ovan.

Om TMR tvingas bort får FTI en monopolposition. Monopol förknippas med ineffektivitet och därför kan TMR tänkas använda detta som ett argument mot FTI. Principiellt kan här finnas två källor till ineffektivitet. Typ 1 är den ineffektivitet som uppstår hos monopolister som inte utsätts för någon konkurrens. Typ 2 är den ineffektivitet som uppstår av att man inte tillvaratar de samordningsfördelar som finns i ett naturligt monopol. Om man exempelvis bygger upp onödigt extra infrastruktur eller om ineffektivitet uppstår på grund av free riding.

Om TMR hade haft ett äkta kreativt nytt sätt att samla in (och kanske sortera, förbereda återvinning, mm) material på ett attraktivt och miljövänligt sätt skulle denna typ av konkurrens kunna vara nyttig och viktig. Nu har TMR inte något sådant äkta innovativt system – de skapar istället en illojal konkurrens genom att frångå kravet på ett allmänt tillgängligt insamlingssystem placerat på mark. Genom att inte följa lagstiftningens krav kan de sänka kostnaderna och deras främsta affärsidé är att locka kunder genom att sänka taxan. Eftersom FTI inte är vinstdrivande utan endast täcker kostnaderna för det insamlingssystem som lagstiftningen kräver, inträffar följande: Kostnaderna för insamlingssystemet är till relativt stor del fasta och genomsnittskostnaderna för kvarvarande kunder stiger när några få kunder lockas bort av en konstlat låg taxa. Detta är kärnan i den illojala konkurrens eller free riding som TMR ägnar sig åt. I förlängningen skulle detta leda till att taxan för kvarvarande kunder hos FTI stiger. I ett extremt scenario skulle då kanske fler företag lämna FTI och gå över till TMR. Summan av alla taxor riskerar stiga så att en samhällsekonomisk kostnad uppstår då FTI fortsätter att betala för det lagstadgade insamlingssystemet. Detta är free riding då TMR gör vinster enbart på andras bekostnad utan att ha tillfört några värdefulla förbättringar eller någon faktisk förbättring i insamlingen av restmaterial.

Det är långt ifrån klart att ett duopol (FTI + TMR) av detta slag skulle vara så mycket bättre än ett monopol. Det skulle i så fall vara om TMR bidrog med något äkta innovativt när det gäller insamling. Att köpa upp redan insamlat material från större fastighetsägare kan nog inte betraktas som en stor och värdefull innovation i detta sammanhang. Detta läge är i vilket fall långt ifrån en situation med fri konkurrens mellan många aktörer. Det senare kan nog inte åstadkommas inom ramen för den nuvarande strukturen. Det skall också påpekas att FTI hävdar att TMR ägnar sig åt att

är det i själva verket dyrt och komplicerat att korrekt genomföra privatiseringar och reglera de privata utförarna. Se exempelvis Laffont, J.-J., & Tirole, J. (1993). *A theory of incentives in procurement and regulation*. Cambridge, Mass: MIT Press.

plocka russinen ur kakan. TMR kan erbjuda lägre taxa genom att de inte tillhandahåller och bekostar en sådan infrastruktur som lagen kräver. Detta kan ses som en form av free riding som i förlängningen riskerar att urholka de ekonomiska förutsättningarna för FTI – eller något annat bolag – att driva ÅVS-systemet. I förlängningen skulle ÅVS-systemet kunna komma att stängas.

Förpackningsindustrin växer i takt med ändrade köpvanor. Samtidigt ökar vår miljömedvetenhet och kraven på en cirkulär ekonomi. Nya material blir allt mer komplexa och ställer nya och svåra miljökrav. Dock finns nya återvinningstekniker (t ex för återvinning av plast) som hägrar i framtiden och kanske kan klara av att återvinna en ökande andel av förpackningsmaterialet utan miljöeffekter. Detta kommer dock medföra ökande kostnader. Återvinningsfrågan kan därmed tänkas växa och det kan mycket väl påverka också insamlingsmetoderna. Det är därför på sikt principiellt viktigt att värna om de system som byggts upp och möjligheten till nya bättre alternativ.

Om fringe competitors som TMR växer och tar en ökande andel av marknaden kan de urholka betalningsförmågan för att bära upp det obligatoriska insamlingssystemet lagstiftningen stipulerar.

Min bedömning kan delas in i en kortsiktig och en långsiktig.

På kort sikt gäller befintlig lagstiftning och jag ser ingen orsak att befria TMR eller TMR:s kunder från kravet på allmänt tillgängligt insamlingssystem placerat på mark. Det vore orättvist mot FTI och dess kunder som då tvingas bära kostnader som TMR:s kunder undviker att betala.

På lång sikt kan man tänka sig modifieringar i lagstiftningen. Våra krav på en cirkulär och ren hantering växer, liksom våra kunskaper men också utmaningarna. Det är viktigt att vara alert på nya teknologier för återvinning och anpassa insamlingssystem efter teknik och efter det som är bekvämt för konsumenter och producenter – allt i syfte att nå en hög grad av återvinning till rimlig kostnad. I det läget kan kravet på allmänt tillgängligt insamlingssystem behöva utredas. Upphandling kan tänkas ske länsvis eller efter olika material. Om systemet med allmänt tillgängligt insamlingssystem bibehålls kan en särskild ersättning utgå till den eller de företag som tillhandahåller tjänsten – som då kan separeras från marknaderna för återvunnet material.



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CURRICULUM VITAE

2021-05-31

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December 2020

Name	<i>STERNER, Thomas Nils Samuel</i>
Current Positions	Professor of environmental economics, University of Gothenburg
Date of Birth	March 22, 1952
Place of birth	Gothenburg, Sweden
Marital Status	Married, 3 children
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Tel (work)	+46 31-7861377 (fax 1326)
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Summary

As professor of environmental economics in Gothenburg I have during the last three decades built up the Unit for Environmental Economics with a staff of about a dozen PhDs and a number of graduate students. We give a unique PhD program in environmental economics and have had more than 50 graduate students from developing countries (financed by the Swedish International Development Cooperation Agency, Sida), as well as masters and undergraduate programs and a large number of other research and teaching activities.

2018 I presided over the World Conference of Environmental and Resource Economics in Gothenburg. With 1500 participants it was the biggest ever! For the academic year 2015-2016 I was elected to a guest professorship at the Collège de France. 2011-2014 was spent in part on the AR5 of the IPCC where I was CLA of chapter 15 on policy instruments. 2012-2013 I was on sabbatical leave from Gothenburg and worked as Chief Economist at the Environmental Defense Fund in New York. My main areas of work are instrument design for climate and environmental policy, catch shares in fisheries and theory of discounting.

I have published over 110 articles in refereed journals, authored or edited more than a dozen books and a large number of book chapters and official reports. I have also been quite prolific when it comes to diffusion into journalistic articles ranging from having my own opinion piece in local media to writing for New York Times, Le Monde or The Times. The main focus of my

work has been on environmental policy instruments with applications to energy and climate, industry, transport economics and finally resource management in developing countries. Many of these areas benefit from interdisciplinary collaboration with natural scientists, engineers, medical or other experts which I find to be a challenging and exciting part of professional life. For more details, see list of publications below

I teach courses in natural resource economics and environmental policy at the graduate and undergraduate levels. I have been the advisor for about two dozen PhD theses and I do quite a lot of external lecturing and consulting.

Employments

1. Collège de France, Titulaire de la Chaire « *Développement durable – Environnement, Energie et Société* » (Sustainable development – environment, energy and society) for the academic year 2015-16.
2. Environmental Defense Fund, Visiting Chief Economist, New York. 2012-13. Senior Contributing Economist 2014-
3. University of Gothenburg
 - a. Professor since 1995-06-01
 - b. Senior Lecturer 1990-95
 - c. Associate Professor 1989 (Docent)
 - d. Assistant Professor 1986-89
 - e. Various junior posts (total 4 years)
4. Statistisk Centralbyrå SSB, Oslo; Extra 20% Appointment, 2010-
5. World Bank, Environment Department, 1998-99.
6. Examiner/tutor at the Dept of Economics, Univ of Karlstad, 1992-96.
7. Bank of Gothenburg (Economic Intelligence Dept.) 1977-78
8. Biskopsgårdens Bleck & Plåt AB.1975-76. Apprentice metal worker.

Universities and Research Institutions

- Collège de France, Paris, 2015-16
- Statistisk Centralbyrå SSB, Oslo (Guest researcher) 2010-2015
- Resources for the Future, Washington DC, 1998-99 (Gilbert White Fellow)
- World Bank (Consultant 1998-99 and shorter consultancies 2000-)
- University of Grenoble, France, Visiting researcher 1988-89 (6 months)
- University of Cambridge, England, Visiting researcher spring 1988
- Universidad de la Republica, Uruguay, Visiting researcher Dec 1987

- Visiting researcher Trade Union Inst. for Econ Research, Sthlm, 1986
- El Colegio de México, Visiting researcher, 1983 and 1985 (2 months)
- Universidad Nacional Autónoma de México, Visiting researcher 1980-81
- University of Gothenburg, Sweden: (BA in 1976); (Phd economics 1986-01-17)
Additional courses in theoretical ecology (1991) and ecology (1992).
- University of Montpellier, France, 1970 (Certificat pratique de la langue Francaise)
- University of Innsbruck, Austria, 1969 (German philosophy and art)

Schools

- Hamilton House Prep School (London) 1958-65
- Westminster Public School (London) 1965-69 (4 A- & 2 S-levels 1969 in Chemistry, Maths, Physics)
- Sandöskolan, Training for development assistance 1973-74.
- Gustavus Primus art school, 1971-73.

Languages

English, Swedish, French, Spanish, German (+ beginner's efforts in Italian and Swahili)

Honors, Prizes & Board Memberships

Honorary Positions

- Chevalier (Knight) in the French Légion d'Honneur, appointed 2020
- Doctor of Science Honoris Causa, University Collage Dublin 2019
- Elected Guest Professor at the Collège de France 2015-16
- Honorary Guest professor University of Cape Town 2015
- University Fellow Resources for the Future, USA. 2002
- Special Advisor to the Research Nucleus on Environmental and Natural Resource Economics, of the Universidad de Concepción 2015-2018
- Member of the Royal Society of Arts and Sciences in Gothenburg (Kungl. Vetenskaps- och Vitterhets-Samhället i Göteborg (KVVS) 2013-
- Beijer Fellow at the Beijer Institute of the Swedish Royal Academy, 2007-
- Fellow of the Centre for Advanced Study at the Norwegian Academy of Sciences, 2005-6.
- Gilbert White Fellow at the Resources for the Future 1998-99

Prizes

- Received the ERE Best Paper Award at the EAERE 2021 Conference for the article: Hagem, C., Hoel, M., & Sterner, T. (2020). Refunding Emission Payments: Output-Based versus Expenditure-Based Refunding. *Environmental and Resource Economics*, 1-27.
- Pro Studio et Scientia Award, University of Gothenburg, October 2019
- EAERE Fellow 2019
- Recipient of diploma as "Mötesambassadör" by the City of Gothenburg in 2018 (Honorary award by the City of Gothenburg)
- Recipient of the "Göteborgs Stads förtjänsttecken 2016" (Honorary award by the City of Gothenburg)
- Environmental Fiscal Reformer of the Year Award 2014, Green Budget Europe
- University of Gothenburg Collaboration Prize 2011 for the Unit for Environmental Economics, Received together with Anders Ekbohm and Gunnar Köhlin.
- Myrdal Prize 2008
- "Månadens Miljöprofil" (Environmental profile of the month), Göteborgs Universitet, March 2007.
- Pedagogical prize of the University of Göteborg, 2003, for the Unit for Environmental Economics.
- 2nd and 5th Positions in competition for most cited articles in the journal **Energy Economics** from 1979-99. (See Editorial in **Energy Economics**, 22(2000) 1-8). (See articles A5 and A21 below).

Member of scientific boards and committees

- President of the Conseil Scientifique de la Chaire Economie du Climat, University Paris Dauphine. 2007-
- Nominating Committee for the 2019 EAERE Fellows.
- President of the Local Organizing Committee for the World Conference of Environmental and Resource Economics, held in Gothenburg June 2018.
- Member of the Conseil Scientifique de la Chaire Economie du Climat, 2018-
- Member of MCC Expert Advisory Board, Mercator Research Institute, Potsdam, Berlin 2017-
- Member of Green OAT Evaluation Council (Council on French Sovereign Green bonds, French Government), 2017-
- Member of the Conseil Scientifique de l'Agence Francaise de Developpement, 2016-
- Member of the Conseil Scientifique de la Chaire Energie et Prospérité, 2016-
- Member of the Advisory Board of Climate Econometrics in Oxford, 2016-

- Member of the Economic Advisory Council to Environmental Defense Fund EDF, 2016-2021
- Member of the Scientific Council for Sustainable Development to the Swedish Government 2015-2018 (Miljövårdsberedningen/Vetenskapliga Rådet för Hållbar Utveckling).
- Chairman FORES scientific panel for the environment, 2015-
- Coordinating Lead Author for the IPCC AR5 2010-15
- Member of the High-Level Advisory Panel for the Mid-Term Evaluation of the UK International Climate Fund - 2013.
- Member of the External Advisory Board of SESYNC (National Socio-Environmental Synthesis Center) <http://sesync.org/> 2012-13
- Member of the High-Level Climate Reference group to the Environment minister in Sweden, 2011-
- Advisory Board: Cluster of Excellence "Future Ocean" at the University of Kiel 2011-
- Board of MISTRA 2010-13
- Member of the Informal Expert Advisory Panel on Climate Change to the Department of the Taoiseach, Government of Ireland, 2008-09.
- President of the European Association of Environmental and Resource Economists 2008-09, Past President 2010-11.
- Research Advisory Committee for SANDEE, the South Asian Network for Development and Environmental Economics, 1999-06. "SANDEE fellow" 2007-
- Membre du Comité d'Orientation Chaire Développement Durable Ecole Polytechnique-EDF 2006- renewed from 2013-
- Research Advisory Committee for CEEPA, the Centre for Environmental Economics and Policy in Africa, 2006-15.
- Member of the Expert Group for Environmental Studies (Expertgruppen för miljöstudier) at the Swedish Department of Finance (2005–06)
- Member of the Board of Academic advisors to the Center for Chinese Agricultural Policy, CCAP of the Chinese Academy of Sciences. 2005-
- Member of the High-Level network of leading economists (organized by DG Environment and the EEA in Copenhagen). 2005-2010
- Board member of the Local Investment Programs (LIP) of the Ministry of the environment, 2002-05
- Chairman of the Board of the Centre for Environmental Economics in Gothenburg 1991-08, 2000-.
- Research Board for Göteborgs Energi, 1997- .
- Board of Gothenburg Centre for environmental science and sustainability (GMV), 2000-06.

- Chairman for the Gothenburg electors' selection committee for the Swedish Research Board on the Environment, 2000.
- Board of the Gothenburg Academy on Managing the Environment GAME, 1999-02.
- Member of expert panel of the SNF, Sweden ("SNFs Expertråd"), 1997- .
- Chairman of the Research Board of the Environmental Economics Network for Eastern and Southern Africa region (EENESA), 1994-99.
- Scientific board of the 1998 EAERE conferences in Venice
- Scientific board of the 1996 EAERE conference in Tilburg
- Scientific board of the 1994 EAERE conference in Dublin
- Academic board for social sciences of Sida/SAREC, 1996-98
- Board of the European Association of Environmental and Resource Economists (EAERE) 1997-99
- Board of the Dept. of Economics 1985-86
- Board of the center for interdisciplinary studies, Gothenburg University, 1984-92
- Coordinator for Latin American Studies, Gothenburg University, 1985-88
- Member of the Steering committee of the "Collaborative Innovation Center for Regional Environmental Quality" at Tsinghua University, Peking University, Nanjing University and Tongji University.
- Member of the local organizing committee for the EEA ESEM conference in Gothenburg, <http://www.eea-esem.com/EEA-ESEM/2013/>
- Member of the External High-Level Review Panel for the report "Climate Change and the World Bank Group"
- Coordinating Lead Author for chapter 15 on National Policy Instruments of the IPCC AR5
- Member of the Technical Committee for the WREC 2011, World Renewable Energy Congress www.wrec2011.com
- Chairman of the Organizing Committee and host for the EAERE Annual conference 2008 in Gothenburg
- Member of the Advisory Board of the Institute for Environmental Studies, (IVM) at the Vrije Universiteit Amsterdam, 2006-09
- External Examiner for environmental economics in the AERC, African Economic Research Consortium, 2000-
- Congress organizing committee for the 2002 World Congress of Environmental & Resource Economists in Monterey, California.
- Member of the Austrian dissertation award committee: Jury für den österreichischen Dissertationskonzeptpreis im Bereich, "Human Dimensions of Global Environmental Change".
- Associate Fellow of the Environmental Economics Program of the International

Institute for Environment & Development, London, 1998-

- Referee of numerous articles for Science, AER, QJE, Journal of Political Economy, JEEM, EDE, Ambio, Econometrica, the Energy Journal, Energy Economics, the European Journal of Operational Research, the Journal of Energy Systems, Journal of Comparative Economics, the Journal of Transport Economics and Policy, European Environment, The Scandinavian Journal of Economics, International Journal of Sustainable Transportation, Ecological Economics, Environmental and Resource Economics, the Journal of Forest Economics, Land Use Policy, Resource and Energy Economics, Climate Policy, Climatic Change, Energy Policy, Oxford Economic Papers and AIMS proceedings

Member of editorial boards

- Associate Editor of the journal Environmental and Resource Economics, 2012-
- Editorial committee of Energy Journal 2017-
- Member of the Editorial Board of the Review of Environmental Economics and Policy.
- Member of the Editorial board of Journal of Environmental Economics and Policy
- Editorial board of Journal of Environment and Development
- Guest editor for PNAS
- Associate Editor of Environmental Economics and Policy Studies.
- Member of the Editorial Board of “Letters in Spatial and resource Sciences” 2007-09.
- Editorial board of Resource and Energy Economics 2006-11
- Guest editor for the Environmental and Resource Economics, Spring 1998
- Editorial Board of International Journal of Global Environmental Issues.
- Editorial Board of European Environment, 1990-03
- Editorial Board of Environmental and Resource Economics, 2005 -
- Editorial Board of Energie Internationale, 1988-92

Book endorsements:

- Environmental Assessments: Scenarios, Modelling and Policy edited by K.N. Ninan, Edward Elgar Publishing Ltd, 2020.
- ‘Global Climate Justice – Proposals, Arguments and Justifications’ by Olivier Godard. Edward Elgar Publishing, 2017.
- ‘Theory of Environment and Sustainable development - A critical appraisal of economics and ethics from justification theory’ by Olivier Godard. Published (in French) by De Boeck Publishers at Louvain (Belgium).
- 'Handbook on Energy and Climate Change' by Roger Fouquet, Edward Elgar Publishing

Ltd, 2013.

- Allocation in the European Emissions Trading Scheme edited by Alfred Denny Ellerman, Carlo Carraro and Barbara Buchner. Cambridge University Press, 2007.
- 'TWR 2012 Inclusive Wealth Report: Measuring progress beyond GDP' edited by Partha Dasgupta and Anantha Duraiappah. Review for University of Cambridge, UK, and the Open Access initiative, Open Book Publishers.

Professional Evaluations for academic positions etc.

1. Letter of evaluation of Dr Elizabeth Gsottbauer for a position at the LSE July 2021.
2. Recommendation for Claudia Aravena for promotion to Associate Professor at Heriot-Watt University, 2021-05-19.
3. Recommendation for Wittgenstein Award of the Austrian Science Foundation 202104
4. Recommendation letter for Aurélien Saussay for promotion to Research Fellow at LSE.
5. Referee for the Promotion of Dr Meredith Fowlie to Full Professor at the University of California, Berkeley, December 2020.
6. Confidential assessment of position at the Smith School in Oxford.
7. Reference Letter Julius Andersson, for EconJob Market.
8. Letter of Recommendation for Ben Groom for Dragon Capital Chair in Biodiversity Economics at the University of Exeter
9. Recommendation letter for Aurélien Saussay for a position at LSE, January 2019.
10. Referee for the Promotion of Professor Anna Creti to a Fellowship at Paris Dauphine, November 2018.
11. Recommendation letter for Gernot Wagner for a tenure track position at NYU, October 2018.
12. Evaluation of Mads Greker for Professor, Oslo Mets, October 2018.
13. Evaluation of Dr. Kathuria as Chair Professor in the University of Bombay, April 2018
14. Evaluation of Dr. Anne-Sophie Crépin for promotion to Associate Professor (Docent), Stockholm University, March 2017.
15. Evaluation of Dr. Kenneth Gillingham for Associate Professor, Yale University, February 2017.
16. Evaluation of Dr. Sandrine Mathy for Associate Professor (HDR), Université Grenoble Alpes, September 2016.
17. Evaluation of Dr. Wouter Botzen for a chair in Economics of Climate Change and Natural Disasters at the Institute for Environmental Studies (IVM), VU University Amsterdam, January 2016.
18. "Midterm Evaluation of Centres for Social Science-related Energy Research – FME Samfund", Report for the The Research Council of Norway
19. Evaluation of Dr. Simon Dietz as full Professor at the London School of Economics,

January 2015

20. Evaluation of Dr. Kathuria as full Professor in the SJM School of Management at IIT Bombay, July 2014
21. Evaluation of Dr Stefan Ambec for full Professor in theoretical economics at the Department of the Economics Sciences, University of Geneva, Switzerland. May 2014
22. Evaluation of Associate Professor Stefanie Engel for promotion to full professor at ETH Zurich, January 2013.
23. Reference, evaluation for Dr Marc Leandri for position at the Economics Department at Sciences Po in Paris.
24. Evaluation of candidates for chair in public finance with an emphasis in environmental economics at the University of Innsbruck and the Faculty of Economics and Statistics, October 2011.
25. Evaluation of Dr. Max Auffhammer for a tenured post as Associate Professor at The University of Michigan March 2011.
26. Evaluation of Dr. Simon Dietz for Major Review by The Promotions Committee of the London School of Economics and Political Science Jan 2011.
27. Evaluation of Dr. Max Auffhammer for a tenured post as Associate Professor at Duke Nov 2010.
28. Review of Professor MR Mabugu Executive Director in the Economic Performance and Development (EPD) programme. Human Sciences Research Council S Africa. August 2010.
29. Review of Professor MR Mabugu for South Africa's National Research Foundation (NRF)
30. Review of cum laude PhD/Doctorate degree to Dr W.J.W. Botzen at the VU University of Amsterdam, Holland, October 2009.
31. Review of Sylvia Brandt for tenure and promotion to Associate Professor at the University of Massachusetts Amherst, Oct 09.
32. Evaluation of Dr. Jim Sanchirico to Full Professor at UC Davis Sept 08
33. Evaluation of Dr. Max Auffhammer for Tenure at UC Berkeley August 08
34. Chairman of the Evaluation Committee for a MISTRA application "SWECIA" for a research program proposal on climate adaptation, May 10-11 2007.
35. Review of Urvashi Narain for promotion to Fellow at Resources for the Future, Washington. Feb 2007.
36. Review of Vinnish Kathuria for Faculty Position at the HSS Department of the Indian Institute for Technology in Kanpur, February 2007.
37. Evaluation of Dr. Somanathan to Full Professor at the Indian Institute of Growth in Delhi, Feb 2006.
38. Evaluation of Sjak Smulders for promotion to Full Professor at the University of Tilburg, October 2005

39. Review of candidates for a Chair in Economics specially, resources, energy and environment, at the Luleå Technical University, September 2005. Candidates Patrik Söderholm and Clas Eriksson.
40. Dr Carolyn Fischer for Senior Fellow at Resources for the Future, Washington Fall 2004.
41. Dr Glenn-Marie Lange for Research Scientist at Columbia University, New York, Summer 2004.
42. Dr Susan Mary Chilton, Referee for promotion to personal Readership at the University of Newcastle upon Tyne, April 2004.
43. "Publication reference" for the promotion to a research chair of Prof Dr Geert van Calster, LL.M., PhD. at the Institute for Environmental and Energy Law, Collegium Falconis, K.U. Leuven, 2003.
44. Tore Söderkvist for Associate Professor at the Stockholm School of Economics, April 2003.
45. David Layton, for tenure at Daniel J Evans School of Public Affairs, Washington U. Aug 2002
46. David Layton, for tenure at Dep. of Environmental Science and Policy, UCLA, spring 2001.
47. Benjamin Chou for faculty position in Environmental Economics at UCLA, Santa Barbara, January 2000.
48. Evaluation of Alan Blackman for promotion to Senior Fellow at Resources for the Future, Spring 2000.
49. Evaluation of candidates for a chair in Environmental Economics in Umeå (dnr 3121-1598-96), spring 1998. Candidates: Thomas Aronsson, Runar Brännlund, Chuan-Zhong Li and Mats Bergman
50. Evaluation of Dr. Jaap Arntzen for promotion to Associate Professor at the Department of Environmental Science, University of Botswana, spring of 1999.
51. Evaluation of Randall Bluffstone for promotion to Research Associate at Harvard Institute of International Development, autumn 1998.

A: Major Published Articles and Monographs

1a) Articles in refereed journals (129)

A181 Elina Lampi, Fredrik Carlsson, Mitesh Kataria, Erik Nyberg, Thomas Sterner, (forthcoming), “Red, yellow, or green? Do consumers’ choices of food products depend on the label design?” *European Review of Agricultural Economics*

A180 Jens Ewald, Thomas Sterner, and Erik Sterner, (2021) “Understanding the Resistance to Carbon Taxes: A Case Study of Sweden” RFF working paper (21-18)
<https://www.rff.org/publications/working-papers/understanding-the-resistance-to-carbon-taxes-a-case-study-of-sweden/>

A179. Ewald, J., Sterner, T., Ó Broin, E., Mata, É. (accepted). Saving energy, y in residential buildings: The role of energy pricing. *Climatic Change*.

A177. Coria, J., Hennlock, M., & Sterner, T. (2021) Interjurisdictional Externalities, Overlapping Policies and NOx Pollution Control in Sweden. *Journal of Environmental Economics and Management*. <https://doi.org/10.1016/j.jeem.2021.102444>

A176. Carlsson, F., Kataria, M., Krupnick, A., Lampi, E., Löfgren, Å., Qin, P., Sterner, T., & Yang, X. (2021). The climate decade: Changing attitudes on three continents. *Journal of Environmental Economics and Management*, 102426.
<https://doi.org/10.1016/j.jeem.2021.102426>

A174. Hagem, C., Hoel, M., & Sterner, T. (2020). Refunding Emission Payments: Output-Based versus Expenditure-Based Refunding. *Environmental and Resource Economics*, 1-27. DOI: <https://doi.org/10.1007/s10640-020-00513-1> . Received the ERE Best Paper Award at the EAERE 2021 Conference.

A173. Mukanjari, S., Sterner, T. (2020). Charting a “Green Path” for Recovery from COVID-19. *Environmental and Resource Economics*. DOI: <https://doi.org/10.1007/s10640-020-00479-0>

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