

## Appendix IV

### Publications relevant to IIASA-Sweden collaborations (2010-2018)

The publication list contains only publications authored by IIASA-affiliated researchers and:

1. About Sweden, or
2. the IIASA author is a national of Sweden, or
3. the IIASA author has collaborated with a researcher based at an institute in Sweden.

### 2018

1. Bengtsson S, Barakat B, & Muttarak R (2018). The Role of Education in Enabling the Sustainable Development Agenda. Routledge. ISBN 9781138307957
2. Brush E, Brännström A, & Dieckmann U (2018). Indirect Reciprocity With Negative Assortment and Limited Information Can Promote Cooperation. *Journal of Theoretical Biology* 443: 56-65. DOI:10.1016/j.jtbi.2018.01.005.
3. Cherp A, Vinichenko V, Jewell J, Brutschin E, Sovacool B (2018) Integrating techno-economic, socio-technical and political perspectives on national energy transitions: A meta-theoretical framework. *Energy Research and Social Science* 37:175-190 DOI:10.1016/j.erss.2017.09.015
4. Dalsøren SB, Myhre G, Hodnebrog Ø, Myhre CL, Stohl A, Pisso I, Schwietzke S, Höglund Isaksson L, et al. (2018). Discrepancy between simulated and observed ethane and propane levels explained by underestimated fossil fuel emissions. *Nature Geoscience* DOI:10.1038/s41561-018-0073-0.
5. Guo F, Akenji L, Schroeder P, & Bengtsson M (2018). Static analysis of technical and economic energy-saving potential in the residential sector of Xiamen city. *Energy* 142: 373-383. DOI:10.1016/j.energy.2017.10.042.
6. Hattermann FF, Vetter T, Breuer L, et al. (2018) Sources of uncertainty in hydrological climate impact assessment: A cross-scale study. *Environmental Research Letters* 13(1) DOI:10.1088/1748-9326/aa9938
7. Obersteiner M, Bednar J, Wagner F, Gasser Thomas, Ciais P, Forsell N, Frank S, Havlik P, et al. (2018). How to spend a dwindling greenhouse gas budget. *Nature Climate Change* 8 (1): 7-10. DOI:10.1038/s41558-017-0045-1.
8. Pfenninger S, Hirth L, Schlecht I, et al. (2018) Opening the black box of energy modelling: Strategies and lessons learned. *Energy Strategy Reviews* 19:63-71 DOI:10.1016/j.esr.2017.12.002
9. Riva F, Ahlborg H, Hartvigsson E, Pachauri S, Colombo E (2018) Electricity access and rural development: Review of complex socio-economic dynamics and casual diagrams for more appropriate energy modelling. *Energy for Sustainable Development* 43:203-223 DOI:10.1016/j.esd.2018.02.003
10. Vanham D, Hoekstra AY, Wada Y, et al. (2018) Physical water scarcity metrics for monitoring progress towards SDG target 6.4: An evaluation of indicator 6.4.2 "Level of water stress". *Science of the Total Environment* 613-614:218-232 DOI:10.1016/j.scitotenv.2017.09.056

11. Winiwarter W, Höglund Isaksson L, Klimont Z, Schöpp W, & Amann M (2018). Technical opportunities to reduce global anthropogenic emissions of nitrous oxide. *Environmental Research Letters* 13 (1): 014011. DOI:10.1088/1748-9326/aa9ec9.
12. Zetterholm Jo, Wetterlund E, Pettersson K, & Lundgren J (2018). Evaluation of value chain configurations for fast pyrolysis of lignocellulosic biomass - Integration, feedstock, and product choice. *Energy* 144: 564-575. DOI:10.1016/j.energy.2017.12.027.

## 2017

13. Alexander P, Prestele R, Verburg PH, et al. (2017) Assessing uncertainties in land cover projections. *Global Change Biology* 23(2):767-781 DOI:10.1111/gcb.13447
14. Barakat B & Bengtsson S (2017). What do we mean by school entry age? Conceptual ambiguity and its implications: the example of Indonesia. *Comparative Education*: 1-22. DOI:10.1080/03050068.2017.1360564. (In Press)
15. Campana PE, Leduc S, Kim M, et al. (2017) Suitable and optimal locations for implementing photovoltaic water pumping systems for grassland irrigation in China. *Applied Energy* 185:1879-1889 DOI:10.1016/j.apenergy.2016.01.004
16. Cherp A, Vinichenko V, Jewell J, Suzuki M, Antal M (2017) Comparing electricity transitions: A historical analysis of nuclear, wind and solar power in Germany and Japan. *Energy Policy* 101:612-628 DOI:10.1016/j.enpol.2016.10.044
17. Colette A, Andersson C, Manders A, et al. (2017) EURODELTA-Trends, a multi-model experiment of air quality hindcast in Europe over 1990-2010. *Geoscientific Model Development* 10(9):3255-3276 DOI:10.5194/gmd-10-3255-2017
18. Danielson M & Ekenberg L (2017). A robustness study of state-of-the-art surrogate weights for MCDM. *Group Decision and Negotiation* 26 (4): 677-691. DOI:10.1007/s10726-016-9494-6.
19. Danielson M & Ekenberg L (2017). Trade-offs for Ordinal Ranking Methods in Multi-Criteria Decisions. *Lecture Notes in Business Information Processing* 274: 16-27. DOI:10.1007/978-3-319-52624-9\_2.
20. de Jong S, Hoefnagels R, Wetterlund E, Pettersson K, Faaij A, & Junginger M (2017). Cost optimization of biofuel production – The impact of scale, integration, transport and supply chain configurations. *Applied Energy* 195: 1055-1070. DOI:10.1016/j.apenergy.2017.03.109.
21. Dekhtyar S, Weber D, Helgertz J, & Herlitz A (2017). Sex differences in academic strengths contribute to gender segregation in education and occupation: A longitudinal examination of 167,776 individuals. *Intelligence* DOI:10.1016/j.intell.2017.11.007. (In Press)
22. Ekenberg L, Hansson K, Danielson M, Cars G, de Betou LI, Buurman J, Ernst M, Fasth T, et al. (2017). *Deliberation, Representation, Equity: Research Approaches, Tools and Algorithms for Participatory Processes*. Cambridge: Open Book Publishers. ISBN 978-1-78374-303-2
23. Elbersen B, Forsell N, Leduc S, Staritsky I, Witzke P, & Ramirez-Almeyda J (2017). Existing Modeling Platforms for Biomass Supply in Europe. In: *Modeling and Optimization of Biomass Supply Chains - Top-Down and Bottom-Up Assessment for Agricultural, Forest and Waste Feedstock*. Eds. Panoutsou, C., pp. 25-54 London, UK: Academic Press. ISBN 978-0-12-812303-4. DOI:10.1016/B978-0-12-812303-4.00002-1.
24. Engström RE, Howells M, Destouni G, Bhatt V, Bazilian M, Rogner HH (2017) Connecting the resource nexus to basic urban service provision – with a focus on

- water-energy interactions in New York City. *Sustainable Cities and Society* 31:83-94  
DOI:10.1016/j.scs.2017.02.007
25. Falster DS, Brännström A, Westoby M, & Dieckmann U (2017). Multitrait successional forest dynamics enable diverse competitive coexistence. *Proceedings of the National Academy of Sciences* 114 (13): 2719-2728. DOI:10.1073/pnas.1610206114.
  26. Fetzl T, Havlik P, Herrero M, et al. (2017) Quantification of uncertainties in global grazing systems assessment. *Global Biogeochemical Cycles* 31(7):1089-1102 DOI:10.1002/2016GB005601
  27. Franklin O, Cambui CA, Gruffman L, Palmroth S, Oren R, & Näsholm T (2017). The carbon bonus of organic nitrogen enhances nitrogen use efficiency of plants. *Plant, Cell & Environment* 40 (1): 25-35. DOI:10.1111/pce.12772.
  28. Franklin O, Han W, Dieckmann U, Cramer W, Brännström A, Pietsch S, Rovenskaya E, & Prentice IC (2017). Using natural selection and optimization for smarter vegetation models - challenges and opportunities. In: European Geosciences Union (EGU) General Assembly 2017, 23–28 April 2017, Vienna, Austria.
  29. Fricko O, Havlik P, Rogelj J, Klimont Z, Gusti M, Johnson N, Kolp P, Strubegger M, et al. (2017). The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. *Global Environmental Change* 42: 251-267. DOI:10.1016/j.gloenvcha.2016.06.004.
  30. Frieler K, Schauburger B, Arneth A, et al. (2017) Understanding the weather signal in national crop-yield variability. *Earth's Future* 5(6):605-616 DOI:10.1002/2016EF000525
  31. Fritz S, See L, Perger C, et al. (2017) A global dataset of crowdsourced land cover and land use reference data. *Scientific Data* 4 DOI:10.1038/sdata.2017.75
  32. Gambhir A, Napp T, Hawkes A, Höglund Isaksson L, Winiwarter W, Purohit P, Wagner F, Bernie D, et al. (2017). The Contribution of Non-CO2 Greenhouse Gas Mitigation to Achieving Long-Term Temperature Goals. *Energies* 10 (5): e602. DOI:10.3390/en10050602.
  33. Gephart JA, Rovenskaya E, Dieckmann U, Pace ML, & Brännström A (2017). Vulnerability to Shocks in the Global Seafood Trade Network. In: IIASA Institutional Evaluation 2017, 27 February-1 March 2017, IIASA, Laxenburg, Austria.
  34. Ghafghazi S, Lochhead K, Mathey A-H, Forsell N, Leduc S, Mabee W, & Bull G (2017). Estimating Mill Residue Surplus in Canada: A Spatial Forest Fiber Cascade Modeling Approach. *Forest Products Journal* 67 (3-4): 205-218. DOI:10.13073/FPJ-D-16-00031.
  35. Hansson K & Ekenberg L (2017). Understanding the demographics of the crowd. In: *Proceedings of the International Conference on Electronic Governance and Open Society Challenges in Eurasia - eGose '17*. pp. 160-165 New York: ACM. ISBN 978-1-4503-5412-7. DOI:10.1145/3129757.3129784.
  36. Hattermann FF, Krysanova V, Gosling SN, et al. (2017) Cross-scale intercomparison of climate change impacts simulated by regional and global hydrological models in eleven large river basins. *Climatic Change* 141(3):561-576 DOI:10.1007/s10584-016-1829-4
  37. Höglund Isaksson L, Näsholm T, Franklin O, Höglund MN (2017) Tamm Review: On the nature of the nitrogen limitation to plant growth in Fennoscandian boreal forests. *Forest Ecology and Management* 403:161-185 DOI:10.1016/j.foreco.2017.04.045
  38. Höglund Isaksson L (2017). Bottom-up simulations of methane and ethane emissions from global oil and gas systems 1980 to 2012. *Environmental Research Letters* 12 (2): e024007. DOI:10.1088/1748-9326/aa583e.
  39. Höglund Isaksson L, Purohit P, Amann M, Bertok I, Rafaj P, Schöpp W, & Borken-Kleefeld J (2017). Cost estimates of the Kigali Amendment to phase-down

- hydrofluorocarbons. *Environmental Science & Policy* 75: 138-147. DOI:10.1016/j.envsci.2017.05.006.
40. Johansson J, Brännström A, Metz H, & Dieckmann U (2018). Twelve fundamental life histories evolving through allocation-dependent fecundity and survival. *Ecology and Evolution*: 1-15. DOI:10.1002/ece3.3730. (In Press)
  41. Jonson JE, Borken-Kleefeld J, Simpson D, Nyíri A, Posch M, Heyes C (2017) Impact of excess NO<sub>x</sub> emissions from diesel cars on air quality, public health and eutrophication in Europe. *Environmental Research Letters* 12(9) DOI:10.1088/1748-9326/aa8850
  42. Kim M, Lee W-K, Choi G-M, Song C, Lim C-H, Moon J, Piao D, Kraxner F, et al. (2017). Modeling stand-level mortality based on maximum stem number and seasonal temperature. *Forest Ecology and Management* 386: 37-50. DOI:10.1016/j.foreco.2016.12.001.
  43. Klimont Z, Shindell D, Borgford-Parnell N, Höglund Isaksson L, Kallbekken S, Kuylenstierna J, Molina L, Srivastava L, et al. (2017). Bridging the gap – The role of short-lived climate pollutants. In: *The Emissions Gap Report 2017-A UN Environment Synthesis Report*. pp. 48-57 Nairobi: United Nations Environment Programme (UNEP). ISBN 978-92-807-3673-1
  44. Komendantova N, Irshaid J, Marashdeh L, Al-Salaymeh A, Ekenberg L, & Linnerooth-Bayer J (2017). Country Fact Sheet, Jordan: Energy and Development at a glance 2017. BICC
  45. Kuramochi T, Fekete H, Hans F, Luna L, Gonzales-Zuniga S, Sterl S, Hagemann M, Hohne N, et al. (2017). Greenhouse gas mitigation scenarios for major emitting countries: Analysis of current climate policies and mitigation commitments 2017 update. New Climate Institute (In Press)
  46. Lansing JS, Abundo C, Jacobs GS, et al. (2017) Kinship structures create persistent channels for language transmission. *Proceedings of the National Academy of Sciences of the United States of America* 114(49):12910-12915 DOI:10.1073/pnas.1706416114
  47. Lauri P, Forsell N, Korosuo A, Havlik P, Obersteiner M, & Nordin A (2017). Impact of the 2 °C target on global woody biomass use. *Forest Policy and Economics* 83: 121-130. DOI:10.1016/j.forpol.2017.07.005.
  48. Liu J, Yang H, Cudennec C, et al. (2017) Challenges in operationalizing the water–energy food nexus. *Hydrological Sciences Journal* 62(11):1714-1720 DOI:10.1080/02626667.2017.1353695
  49. Lundstrom NLP, Zhang H, & Brännström A (2017). Pareto-efficient biological pest control enable high efficacy at small costs. *Ecological Modelling* 364: 89-97. DOI:10.1016/j.ecolmodel.2017.08.015.
  50. Mentis D, Howells M, Rogner H, et al. (2017) Lighting the World: the first application of an open source, spatial electrification tool (OnSSET) on Sub-Saharan Africa. *Environmental Research Letters* 12(8) DOI:10.1088/1748-9326/aa7b29
  51. Mesfun S, Sanchez DL, Leduc S, Wetterlund E, Lundgren J, Biberracher M, & Kraxner F (2017). Power-to-gas and power-to-liquid for managing renewable electricity intermittency in the Alpine Region. *Renewable Energy* 107: 361-372. DOI:10.1016/j.renene.2017.02.020.
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  53. Palmqvist K, Franklin O, & Näsholm T (2017). Symbiosis constraints: Strong mycobiont control limits nutrient response in lichens. *Ecology and Evolution* 7 (18): 7420-7433. DOI:10.1002/ece3.3257.

54. Pang X, Mörtberg U, Sallnäs O, Trubins R, Nordström E-M, & Böttcher H (2017). Habitat network assessment of forest bioenergy options using the landscape simulator LandSim – A case study of Kronoberg, southern Sweden. *Ecological Modelling* 345: 99-112. DOI:10.1016/j.ecolmodel.2016.12.006.
55. Pang X, Nordström E-M, Böttcher H, Trubins R, & Mörtberg U (2017). Trade-offs and synergies among ecosystem services under different forest management scenarios – The LEcA tool. *Ecosystem Services* 28: 67-79. DOI:10.1016/j.ecoser.2017.10.006.
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58. Rockström J, Gaffney O, Rogelj J, Meinshausen M, Nakicenovic N, Schellnhuber HJ (2017) A roadmap for rapid decarbonization. *Science* 355(6331):1269-1271 DOI:10.1126/science.aah3443
59. Rosa IMD, Pereira HM, Ferrier S, et al. (2017) Multiscale scenarios for nature futures. *Nature Ecology and Evolution* 1(10):1416-1419 DOI:10.1038/s41559-017-0273-9
60. Salk C, Lopez MC, Wong G (2017) Simple Incentives and Group Dependence for Successful Payments for Ecosystem Services Programs: Evidence from an Experimental Game in Rural Lao PDR. *Conservation Letters* 10(4):413-420 DOI:10.1111/conl.12277
61. Salk CF, Sturn T, See L, Fritz S (2017) Limitations of Majority Agreement in Crowdsourced Image Interpretation. *Transactions in GIS* 21(2):207-223 DOI:10.1111/tgis.12194
62. Saunio M, Bousquet P, Poulter B, et al. (2017) Variability and quasi-decadal changes in the methane budget over the period 2000-2012. *Atmospheric Chemistry and Physics* 17(18):11135-11161 DOI:10.5194/acp-17-11135-2017
63. Saunio M, Bousquet P, Poulter B, Peregón A, Ciais P, Canadell JG, Dlugokencky EJ, Etiope G, et al. (2017). Variability and quasi-decadal changes in the methane budget over the period 2000-2012. *Atmospheric Chemistry and Physics Discussions* 17 (18): 11135-11161. DOI:10.5194/acp-2017-296.
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65. Schipfer F, Kranzl L, Leclere D, Leduc S, Forsell N, & Valin H (2017). Advanced biomaterials scenarios for the EU28 up to 2050 and their respective biomass demand. *Biomass and Bioenergy* 96: 19-27. DOI:10.1016/j.biombioe.2016.11.002.
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68. Silveira S, Khatiwada D, Leduc S, Kraxner F, Venkata BK, Tilvikine V, Gaubye V, Romagnoli F, et al. (2017). Opportunities for bioenergy in the Baltic Sea Region. *Energy Procedia* 128: 157-164. DOI:10.1016/j.egypro.2017.09.036.

69. Terrer Moreno C, Vicca S, Hungate BA, Phillips RP, Reich PB, Franklin O, Stocker BD, Fisher JB, et al. (2017). Response to Comment on “Mycorrhizal association as a primary control of the CO<sub>2</sub> fertilization effect”. *Science* 355 (6323): p. 358. DOI:10.1126/science.aai8242.
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72. Wickman J, Diehl S, Blasius B, Klausmeier CA, Ryabov AB, & Brännström A (2017). Determining selection across heterogeneous landscapes: a perturbation-based method and its application to modeling evolution in space. *American Naturalist* 189 (4): 381-395. DOI:10.1086/690908.
73. Winiger P, Andersson A, Eckhardt S, et al. (2017) Siberian Arctic black carbon sources constrained by model and observation. *Proceedings of the National Academy of Sciences of the United States of America* 114(7):E1054-E1061 DOI:10.1073/pnas.1613401114
74. Xylia M, Leduc S, Patrizio P, Kraxner F, Silveira S (2017) Locating charging infrastructure for electric buses in Stockholm. *Transportation Research Part C: Emerging Technologies* 78:183-200 DOI:10.1016/j.trc.2017.03.005
75. Xylia M, Leduc S, Patrizio P, Silveira S, & Kraxner F (2017). Developing a dynamic optimization model for electric bus charging infrastructure. *Transportation Research Procedia* 27: 776-783. DOI:10.1016/j.trpro.2017.12.075.
76. Yeh S, Mishra GS, Fulton L, et al. (2017) Detailed assessment of global transport-energy models’ structures and projections. *Transportation Research Part D: Transport and Environment* 55:294-309 DOI:10.1016/j.trd.2016.11.001
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## 2016

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83. Capros P, De Vita A, Tasios N, Siskos P, Kannavou M, Petropoulos A, Evangelopoulou S, Zampara M, et al. (2016). EU Reference Scenario 2016 - Energy, transport and GHG emissions Trends to 2050. European Commission Directorate - General for Energy, Directorate - General for Climate Action and Directorate - General for Mobility and Transport
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