

dr. emily tyler

bringing the lenses of complexity studies, economics, and finance to climate and energy policymaking

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PAPERS

- Tyler, E. and Cohen, B. (2021). A complex systems view of climate and development issues in South African coal power expansion. In *Journal of Energy in Southern Africa*. Vol 32:1. February 2021. DOI: 10.17159/2413-3051/2021/v32i1a9052
- Tyler, E. and Cohen, B. (2020). Approaching climate change mitigation policymaking in South Africa: a view from critical complexity thinking. In *Climate Policy*. Vol 20:10. 1209-1225. DOI 10.1080/14693062.2020.1779019.
- Tyler, E. 2019. A complex transdisciplinary exploration of South African climate mitigation policy. Engineering and the Built Environment, Department of Mechanical Engineering, University of Cape Town. <https://open.uct.ac.za/handle/11427/30133>
- Tyler, E. and Torres Gunfaus, M. (2017) Reflecting on the South African Long Term Mitigation Scenario Planning Process a decade on. In *Development*, 59(3), 328-334.
- Tyler, E. and Cohen, B. (2017). A complexity underpinning for domestic climate mitigation policy in South Africa. In *International Journal of Design & Nature and Ecodynamics*. 12 (1) 124-132.
- Cohen, B.; Tyler, E.; Torres Gunfaus, M. (2016). Lessons from co-impacts assessment under the Mitigation Action Plans and Scenarios (MAPS) Programme. In *Climate Policy*, DOI: 10.1080/14693062.2016.1222258
- Tyler, E. and Cloete, B. (2014). Combining price and quantity instruments: insights from South Africa. *Climate Policy*. DOI: 10.1080/14693062.2014.937382
- Jooste, M, Tyler, E, Coetzee, K, Boyd, A and Boule, M. (2014). Internalising mitigation activities into the development priorities and approaches of developing countries. *Proceedings of the Forum on Development and Mitigation*, Cape Town 2014.
- Tyler, E., Boyd, A., Coetzee, K., Torres Gunfaus, M., Winkler, H. (2013): Developing country perspectives on 'mitigation actions', 'NAMAs', and 'LCDS'. In *Climate Policy*, DOI: 10.1080/14693062.2013.823334
- Garibaldi, J. Winkler, H., la Rovere, E., Cadena, A., Palma, R., Sanhueza, J., Tyler, E.

& Torres Gunfaus, M. (2013). Comparative analysis of five case studies: commonalities and differences in approaches to mitigation actions in five developing countries. In *Climate and Development*, Special Issue: Designing and implementing mitigation actions: emerging lessons from five developing countries. Volume 6, Supplement 1, 2014, pp 59-70.

- Tyler, E., Boyd, A., Coetzee, K. & Winkler, H. (2013), A case study of South African mitigation actions. In *Climate and Development*, Special Issue: Designing and implementing mitigation actions: emerging lessons from five developing countries. Volume 6, Supplement 1, 2014, pp 49-58.
- Tyler, E. (2010). Aligning South African energy and climate change mitigation policy. In *Climate Policy* volume 10 Issue 5 2010 pp575-588. Special Issue: Putting a price on carbon in South Africa and other developing countries
- Tyler, E., Du Toit, M., Burchell, Z. (2011). Emissions trading as a policy option for greenhouse gas mitigation in South Africa. In *Journal of Energy in Southern Africa* Vol 22 No.1. February 2011 pp26-41
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- Tyler, E., Du Toit, M., Burchell, Z. (2011). White certificates and white certificate trading schemes as greenhouse gas mitigation policy options for South Africa. In *Journal of Energy in Southern Africa*. Vol 22 No. 1 February 2011 pp18-25
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- Tyler, E. and Chivaka, R. (2010). The use of Real Options valuation methodology in enhancing the understanding of the impact of climate change on companies, In *Business Strategy and the Environment*. Vol 10 Issue 1 p55-70
-
- Tyler, E. (2010). Using real options to value the impacts of climate change. A case study of Sappi, a South African pulp and paper company. ISBN 978-3-8383-0875-3

BLOGS

- www.emilytyler.co.za/blog
- Responding to climate mitigation policymaking as a complex policy problem: the role of approach, *Climate Strategies 2020*: <https://climatestrategies.wordpress.com/2020/07/27/responding-to-climate-mitigation-policymaking-as-a-complex-policy-problem-the-role-of-approach/>
- Climate mitigation policy in a development context – how do we do what we do, MAPS 2015: <http://www.mapsprogramme.org/category/publications/blogs/>
- The Long Term Mitigation Scenarios, a decade later. MAPS 2015: <http://www.mapsprogramme.org/category/publications/blogs/>
- Development and Mitigation Forum, MAPS 2014: <http://www.mapsprogramme.org/publications/blogs/beyond-development-mitigation/>
- Conversations with development practitioners, MAPS 2014: <http://www.mapsprogramme.org/publications/blogs/climate-change-mitigation-work-within-multiple-objectives-frame-insights-conversations-south-african-development-practitioners/>

- **Climate mitigation policy instruments, Climate Strategies 2015:**
<https://climatestrategies.wordpress.com/2015/04/15/insights-from-south-africa-emily-tyler-and-brent-cloete/>

CONFERENCE PAPERS AND PRESENTATIONS

- **African Centre for Cities International Urban Conference** (2018). Paper presentation: Using a complex systems frame to think through issues of greenhouse gas mitigation and social justice in the South African Coal Expansion programme.
- **Science Policy Research Unit (SPRU), University of Sussex**, seminar, June 2016
- **Wessex Complex Systems conference**, United Kingdom, June 2016. Paper presentation
- **African Climate and Development Institute student conference**, Cape Town, March 2016. Paper presentation.
- Poster presentation of MAPS Programme paper 'Reflecting on climate mitigation in a development context, how we do what we do' at **Our Common Future Under Climate Change** conference, Paris, July 2015 (www.commonfuture-paris2015.org)
- **Conceptualised and led the 2014 international academic conference 'The DevMit Forum'** under the auspices of the MAPS Programme and the Energy Research Centre, UCT.
- **Carbon pricing conference**, UCT, 2009. Two paper presentations.

REVIEWS

- **Expert reviewer** (2017/18) for Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5°C (SR15)
- Non-blind review of '**Complex System Co-Design: Pathway to becoming an appreciative system**' (2017) by Motloch, J., for 7th International Multi-Conference on Complexity, Informatics and Cybernetics.
- Review of chapter '**Building energy efficiency in the City of Cape Town: The role of an energy intermediary**' in 'Development and climate change: lessons from Cape Town' (forthcoming).
- Review of and contribution to '**Stories from the South. Exploring low carbon development pathways**'. (2015), Raubenheimer, S. and the MAPS Team. Published by SouthSouthNorth, South Africa.
- Regular reviewer of **Climate Policy journal articles**
- **Masters thesis examination** (2015). The role of industrial policy in pursuing climate change mitigation objectives in South Africa (Energy Research Centre)

LECTURING

- University of Cape Town: Energy Poverty and Development (Masters level, 2016); Climate Finance (Masters level, 2007), Climate Change and Development MOOC (2016).
- Stellenbosch University: Public Policy and Complexity (Honours level, 2016); Development Finance, (Masters level, 2008-12), Renewable Energy (Masters level, 2005).

EDUCATION AND AWARDS

- Doctorate in Development and Energy Studies, University of Cape Town. Thesis entitled: 'A complex transdisciplinary exploration of South African climate mitigation policy', 2019. <https://open.uct.ac.za/handle/11427/30133>
 - Participated in the Complexity and Systems Thinking Masters level module at the Sustainability Institute, Stellenbosch University, 2016.
 - Masters in Advanced Financial Management, University of Cape Town 2007: Thesis on using real options analysis to describe the impact of climate change on shareholder value at Sappi.
 - Attended the Executive Course in Energy Policy and Management, University of the Witwatersrand, Faculty of Commerce, Law and Management, 2004
 - First Class (Hons) Economics, University of Cape Town, 1998
 - B.Comm. in Economics and Psychology, Rhodes University, 1997
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- Awarded the national South African Old Mutual Tax Essay competition prize (1998, undergraduate category).
 - Awarded the University of Cape Town Keswick Prize for Lucidity for economics honours essay on the Economics of Orchestras (1998)
 - Academic Half Colours (1998) for undergraduate B.Comm studies.