

# ***Dr. Emily Tyler***

***low carbon policy, economics, finance, complex systems***

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[https://www.researchgate.net/profile/Emily\\_Tyler3/publications](https://www.researchgate.net/profile/Emily_Tyler3/publications)

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Dr Emily Tyler has over twenty years of experience in the energy and climate policy space in South Africa and internationally, bringing the lenses of complexity and complex systems, economics and finance to the complex challenges she encounters here. Finding the interplay between practice and reflection particularly rich, Emily has worked to retain both her consulting and academic presence throughout her career.

## **Career Positions**

- Member of the Air Quality Advisory Forum to the South African Minister of Environment, Forestry and Fisheries (2022- present)
- Meridian Economics, Climate Economics and Finance lead (2019- present)
- Honorary Research Affiliate, African Climate and Development Institute, University of Cape Town (2019 – present)
- Independent climate mitigation consultant (2009-2019, South Africa)
- Genesis Analytics Climate Change Practice Manager (2007-9, South Africa)
- SouthSouthNorth Projects Africa and Energy Transformations (2003-7, South Africa)
- Climate change consultant to ABN Amro (2003, Amsterdam)
- Enviro Climate Change Policy and Strategy Group (2001-3, London)
- Researcher for the South African Minister of Trade and Industry (2000)

## **Academic record and training**

- Training in Transformative Facilitation (2023) Through Conversations that Count, Cape Town.
- PhD, University of Cape Town (2014-2018). Thesis entitled: A complex transdisciplinary exploration of South African climate mitigation policy
- Masters in Advanced Financial Management, University of Cape Town 2007
- Honours in Economics (First Class), University of Cape Town, 1998
- B.Comm in Economics (with Distinction) and Psychology, Rhodes University, 1997

## **Project Examples**

- *Renewable Energy Strategy development* for a large South African greenhouse gas emitter (2023).
- *Decarbonization routes for the South African petrochemicals and transport sectors* 2022 - 2023).
- Conception and *elaboration of a large scale and concessional, coal retirement mechanism (CRT)* for South Africa (2019 - 2021), including international and domestic climate policy considerations.
- Modelling and conceptual framing to *explore the system cost of Paris-aligned South African power supply trajectories* (2020, 2022).
- *Facilitated the stakeholder engagement workshop* on the draft South African Low Emissions Development Strategy (LEDS) (2019)
- *Aligning the South African carbon tax and carbon budgets* World Bank Programme for Market Readiness project to consider possible interface options for the two policy instruments (2016)

- Research and project input on *policy approaches to climate mitigation in developing countries* (Chile, Colombia, Peru, Brazil and India) under the Mitigation Action Plans and Scenarios (MAPS) Programme (2009-15).
- Designed and convened the *MAPS Programme Forum on Development and Mitigation*, an international academic conference held in Cape Town (2014).
- *South African Energy Scenario Planning Process* Local expert input to energy scenarios for South Africa to 2050, a joint project of Shell and the Department of Energy (2013-14)
- Core technical support to the *low carbon economy transition initiative of the South African National Planning Commission* including drafting of the environmental chapter of the Plan (2012).
- Analysis of the *implications of a carbon price in South Africa for Sasol*, a large, emissions-intensive South African company operating in the industrial and energy sectors (2011).
- Delivery of a scoping report and presentation on the *risks and opportunities the international bank ABN Amro faces from climate change* (2003)
- *Assistance in the final preparation and implementation of the UK Emissions Trading Scheme*. Secondment to the Environment Protection Economics division of the Department for Environment, Food and Rural Affairs (2002)

#### **Selected publications:**

- Dubash, N., Pillai, A., Flachsland, C., Harrison, K., Hochstetler K., ... Tyler, E. (2021): National climate institutions complement targets and policies, *Science* Vol 374, Issue 6568. pp. 690-693.
- Winkler, H., Tyler, E., Keen, S., & Marquard, A. (2021): Just transition transaction in South Africa: an innovative way to finance accelerated phase out of coal and fund social justice, *Journal of Sustainable Finance & Investment*.
- Tyler, E. and Hochstetler, K. (2021) Institutionalising decarbonisation in South Africa: navigating climate mitigation and socio-economic transformation. In *Environmental Politics*.
- Tyler, E. and Cohen, B. (2020). Approaching climate change mitigation policymaking in South Africa: a view from critical complexity thinking. In *Climate Policy*.
- Tyler, E. and Cloete, B. (2014). Combining price and quantity instruments: insights from South Africa. *Climate Policy*.
- 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 pp55-70

#### **Associations and Awards:**

- Member of the Associate Board of SouthSouthNorth Projects Africa
- Academy of Science of South Africa: Forum on the Just Transition
- Member of the C40 Regional Delivery Advisory Group for Africa
- Winner, South African Old Mutual Tax Essay competition prize (undergraduate category, 1998)
- University of Cape Town Keswick Prize for Lucidity (Economics honours thesis, 1998)

#### **The rest of me...**

I love whole, quality food, cooking, buying and eating! I find calm and presence in yoga and a nascent aikido practice, and thinking-space in swimming. My young children keep me very present in the world, my husband keeps me joyful. Friends and family connect and inspire me, and South African nature is my refuge and soul-home. I have participated and achieved in school and university level sport and clubs, orchestral music (oboe), and music teaching.