



CURRICULUM VITAE: DR MARIE BLANCHE TING

Contact details: +27 66 011 7795

Nationality: South African

Email: m.ting@ids.ac.uk or m.b.ting@sussex.ac.uk

Please scan here for my LinkedIn profile

PROFESSIONAL PROFILE

Blanche is an energy and sustainable development sector professional with close to twenty years of experience in both the public and private sectors, having guided energy sector policies and strategies, developed projects and led the implementation of technical assistance projects in developing countries. She has a PhD from the Science Policy Research Unit (SPRU), University of Sussex, the U.K. with a case study on South Africa's energy transitions (analysing the role of mining and energy, renewable energy, and gas). Her working experiences include the private sector, the national government of South Africa (Department of Science and Technology), multilateral organisations, research councils and academia. She holds two Masters degrees, in Climate Change and Development from the Institute of Development Studies (IDS), the U.K. as a Mandela-Sussex Scholar, and in Bioprocess engineering at the University of Cape Town (UCT). She is a widely published author of journal articles, book chapters, technical reports, and research and policy briefs.

EDUCATION AND QUALIFICATIONS:

2014-2020	PhD in Energy Transitions Science Policy Research Unit (SPRU), University of Sussex, U.K.
2014	Executive Education: Innovation for Economic Development Harvard University, Kennedy School of Government, U.S.A
2010-2011	MSc. Climate Change and Development Institute of Development Studies (IDS), University of Sussex, U.K.
2002-2004	MSc. Applied Science in Chemical Engineering University of Cape Town (UCT), South Africa.

PUBLICATIONS:

Ting, M.B. and Naidoo, C.P. (2021). Uncertainty: A Trigger towards Transformative Policies and Innovation. *UJ-TRCTI Working Paper Series* (WP 2021-03). University of Johannesburg: South Africa.

Akon-Yamga, CU Daniels, Quaye, W, **MB Ting**, Asante AA (2021), Transformative innovation policy approach to e-waste management in Ghana: perspectives of actors on transformative changes. *Science and Public Policy*, 48(3), Pgs 387-397.

MB Ting (2021), Inclusive energy transitions: an analysis of the potential for a digital revolution in South Africa's electricity system. Kramer-Mbula, E., and Mazibuko, - Makena (eds), *Leap 4.0, African perspectives on the Fourth Industrial Revolution*. Mistra.

MB Ting, Byrne, R., (2020), Eskom and the rise of renewables: Regime resistance, crisis, and the strategy of incumbency in South Africa's electricity system. *Energy Research and Social Science*, Vol 60, 101333.

MB Ting, Multiple regime interactions, conversion, and South Africa's Liquefied Natural Gas, (2019) SPRU working series, Vol 8, 2019/5.

BK Sovacool, K Lovell, **MB Ting** (2018), Reconfiguration, contestation, and decline, conceptualising mature large technical systems, *Science, Technology and Human Values*, 43(6), Pgs 1066-1097

MB Ting, Philp, J, Revitalization of agricultural biomass for an industrial economy, case studies on South Africa and Netherlands Bio-economy (2018), in Filho et al, *Towards a sustainable bioeconomy, principles, challenges and perspectives*. Springer, World Sustainability Series.

MB Ting, Historical review of the relationship between energy, mining, and South African economy (2015). *Earth, Wind and Fire, Unpacking the political, economic and security implications of the discourse on the green economy*. Mistra

Urban, F., **Ting, M.B.**, Lakew, H., (2013). Poverty reduction and economic growth in a carbon constrained world: the case of Ethiopia. *Low Carbon Development*, Routledge, London.

PROFESSIONAL APPOINTMENTS:

2023-present **Climate Technology and Innovation System Specialist, UNEP CCC, Copenhagen, Denmark**
Working on the Climate Technology Progress Report

2020-2023 **Energy and Low Carbon Coordinator, Directorate of Technical Cooperation and Sustainable Industrial Development, Energy Systems and Decarbonization Unit, United Nations Industrial Development Organisation (UNIDO), Pretoria, South Africa.**
Project development and execution, and funds mobilization.
Projects managed: 1) Industrial Energy Efficiency (Budget USD 5.7 million), 2) Low Carbon Transport (Budget USD 1.3 million). 3) Eco-industrial parks (Budget USD 1.3 million). 4) climate change adaptation in agro-industries (USD 2.5 million).

2020-present **Associate Research Fellow, Science Policy Research Unit (SPRU), University of Sussex, U.K.**
Academic post in Energy transitions, and transformative science, technology, and innovation policy.

- 2020- present** **Senior Research Fellow, DST/NRF/Newton Fund Trilateral Chair in Transformative Innovation, the Fourth Industrial Revolution (4IR) and Sustainable Development. University of Johannesburg, South Africa.**
- 2017-2018** **Economic Affairs Officer, United Nations Conference on Trade and Development (UNCTAD), Geneva, Switzerland.**
Key outputs:
1) Flagship Technology Innovation Report (TIR) on decentralised renewable power with energy storage, big data, disruptive technologies for development, and electric vehicles to the grid (V2G).

2) renewable energy and the SDGs-off grids and energy access. Policy advice on renewable energy deployment, related to regulations, enabling frameworks, customised business and financing models, adapted technology solutions, and capacity building.
- 2014-2019** **Researcher-energy transitions, and Transformative Innovation Policy Consortium (TIPC), University of Sussex, Business School, Brighton, U.K.**
Cross-sectoral analytical skills in clean energy solutions, waste, clean fuels, and energy access.
1) Country missions: Ghana, Kenya, Senegal and South Africa

2) Tutor: entrepreneurial finance, infrastructure and innovation.
- 2010-2014** **Senior Policy Specialist (Director level), Department of Science and Technology (National Government), Pretoria, South Africa.**
1) Project design, implementation, and M&E of a project with a budget of over USD 3 million

2) Lead policy specialist on issues related to the green economy, stakeholder engagement, partnerships, capacity building, workshop facilitation, regional collaboration particularly the Southern African Development Community (SADC) and representation to the OECD, Paris.

3) Institutionalise evidence-based climate change policies, with the establishment of South Africa's National Designated Entity (NDE) to serve as a focal point for the Climate Technology Centre Network (CTCN)

4) Leading country programmes and policy dialogue, consensus building with clients that include various national government departments, NGOs, the private

sector, and civil society; key topics on low carbon energy solutions

2012-2014

Consultant Climate Change, Climate Innovation Centre (CIC), Gauteng Growth and Development Agency (GGDA), Pretoria, South Africa

Technical Evaluation of projects on clean energy solutions with renewable energy entrepreneurs and strengthening their capacity to access funds at the provincial level. Major output:

Projects reviewed include the following:

- Syngas production from municipal solid waste
- Household and collection of food waste for microbial treatment
- Cleaner fuel and safe cooking stoves
- Biomass from paper sludge and waste paper to ethanol (waste to energy)
- Concentrating Solar Power-CSP-Linear Fresnel technology for steam generation.

2006-2010

Senior Scientist: Environmental Science & Technology, Sasol, Sasolburg, South Africa.

Private sector experience in industrial research and project development/implementation and management in waste to energy, wastewater, and climate change mitigation.

Major output: responsible for a pilot plant using biological processes related to water/effluent and waste management and treatment. Used aerobic activated Sludge (Secunda and Qatar Sasol-Gas to the liquid-GTL treatment of their Fischer Tropsch wastewater) as well as anaerobic digestion (in collaboration with Paques, Netherlands).