

AT A GLANCE:

Dr Britta Rennkamp is a senior researcher at the African Climate and Development Initiative (ACDI), University of Cape Town, South Africa. Her research focuses on climate policy and technology in developing countries and the links between poverty, inequality, energy and mitigation of climate change. Britta has contributed to the scholarship of Science and Technology Policy Studies specifically in the field of climate change and energy in the Global South. Her work analysed renewable energy, coal and nuclear programs, carbon taxation, green industrial and innovation policies in developing countries. She published various papers and book chapters on the overall question on integrating policies for emissions reductions, energy supply and sustainable development in Africa and Latin America. Her current research investigates climate policy risks associated with the implementation of the Paris Agreement on Climate Change via Nationally Determined Contributions, with a focus on developing countries. She is currently developing a research agenda towards a better understanding of the bidirectional relationships between climate policy and social inequality in Sub-Saharan Africa.

She has successfully managed sixteen research and consulting projects and conducted multi-stakeholder engagements in climate policy processes in Germany, South Africa, Mozambique, Colombia, Peru and Brazil. Prior to joining UCT, she worked for the German International Cooperation (GIZ) in Brazil and the German Development Institute (DIE) in Germany. Britta holds a PhD in Science Technology Policy Studies from University of Twente, and a Diplom/MPhil in Regional Sciences of Latin America– Political Sciences, Economics, Latin American History, Spanish and Portuguese language and literature from University of Cologne. She has sixteen years of international work experience in sustainable development research, consulting and teaching.

EDUCATION:

|   |   |
|---|---|
| Netherlands,<br>02/2008 – 10/2011         | Doctoral Studies at Department of Science, Technology and Policy Studies,<br>University of Twente<br><br><i>PhD Thesis: 'Innovation for all? Legitimizing Science, Technology and<br/>Innovation policy in Unequal Societies'</i>   |
| Brazil, South Africa<br>03/2010 – 02/2011 | Doctoral scholar of the German Academic Exchange Service (DAAD)<br><br><i>Field research for PhD thesis at Institute of Economic Research of Innovation,<br/>Tshwane University of Technology, South African Institute of International<br/>Affairs and RedeSist, Federal University Rio de Janeiro</i> |
| Germany,<br>10/1999 – 07/2005             | Diplom (equivalent to Master of Philosophy): 'Regional Sciences Latin<br>America' at University of Cologne, Germany<br><br><i>Economics, Political Science, Latin American History, Spanish and Portuguese<br/>Literature and Linguistics</i>   |
| Spain,<br>10/2004 – 06/2006               | Master of Philosophy: Translation and Interpretation of the languages<br>Spanish and German, University of Seville  |
| USA,<br>08/2002 – 12/2002                 | Study abroad at San Diego State University, San Diego, California, USA,<br>scholarship of the Department of Iberoamerican History, University of<br>Cologne   |

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|--------------------------------|---|
| Portugal,<br>09/2000 – 02/2001 | Study abroad at the New University Lisbon, scholarship of the Erasmus program, EU |
| Spain,<br>09/1998 –07/1999     | Diploma ‘Hispanic Studies’ at University of Barcelona                             |

RELEVANT EXPERIENCE:

|                                   |   |
|-----------------------------------|---|
| South Africa,<br>08/2019- to date | Senior Researcher, African Climate and Development Initiative, University of Cape Town              |
| 05/2011 to 07/2019                | Senior Researcher, Energy Research Center (ERC), University of Cape Town, South Africa              |
| Germany,<br>06/2007 – 04/2011     | Researcher, German Development Institute (DIE), Bonn, Germany                                       |
| Germany,<br>05/2007 –07/2007      | Project Coordinator, ICON Institute, Cologne, Germany   |
| Brazil,<br>03/2007 –04/2007       | Consultant, German International Cooperation, Recife, Brazil  |
| Brazil,<br>01/2006 – 02/2007      | Trainee, at German International Cooperation ,Regional Development in North East Brazil’, Recife    |
| Argentina,<br>03/2004 – 05/2004   | Research Assistant, at Escenarios y Estrategia (EyE), Buenos Aires                                  |
| Germany,<br>02/2003 – 04/2003     | Internship, Department of Economics at PROCHILE, Export Promotion at the Chilean Consulate, Hamburg |
| Mexico,<br>03/2003 – 04/2002      | Internship, Department of Cultural Programs at the Goethe Institute, Mexico D.F.                    |

LANGUAGES:

|            |           |          |           |
|------------|-----------|----------|-----------|
| German     | Native    | Spanish  | Excellent |
| English    | Excellent | French   | Basic     |
| Portuguese | Excellent | isiXhosa | Basic     |

AWARDS

Award from the South African Wind Energy Association for distinguished academic research in support of the South African Wind Energy Industry 2013, Nomination for the Distinguished Teaching Award 2016 at the University of Cape Town, Research Rating: Y, National Research Foundation, South Africa

## PUBLICATIONS:

### CONTRIBUTING AUTHORSHIPS

Rennkamp, Britta [...] (2022) Contributing Author to Chapter 17: Decision Making Options for Managing Risk, Sixth Assessment Report. WG II, Climate Change 2022 Impacts, Adaptation and Vulnerability, International Panel on Climate Change, IPCC.

Rennkamp, Britta (2022) Large Scale Renewable Energy Technology in Sub-Saharan Africa: Towards Net Zero Futures, Contributing Author: UNEP Climate Technology Progress Report.

### JOURNAL ARTICLES

Rennkamp, Britta (2019): Power, coalitions and institutional change in South African climate policy, *Climate Policy*, pages 756-770.

Rennkamp, Britta and Andrew Marquard (2018): South Africa's multiple faces in current climate clubs, *South African Journal of International Affairs*, p. 1-19.

Rennkamp, Britta, Haunss, Sebastian, Wongsa, Kritdiyaporn, Ortega, Araceli, Casamadrid, Erika (2017): Competing Coalitions: The Politics of Renewable Energy and Fossil Fuels in Mexico, South Africa and Thailand, *Journal Energy Research and Social Science*, Volume 34, pages 214–223.

Rennkamp, Britta and Michael Boule (2017): Novel shapes of South-South collaboration: Emerging knowledge networks on co-benefits of climate and development policies, *Climate and Development*, 2017 <https://doi.org/10.1080/17565529.2017.1318741>

Rennkamp, Britta, Boyd, Anya (2015): Technological capability and transfer for achieving - South Africa's low carbon development goals, *Climate Policy*, Special Issue 2015, Vol. 1, pages 12-29. doi:10.1080/14693062.2013.831299

Boyd, Anya, Rennkamp, Britta, Anthony Dane and Harald Winkler (2013): Current approaches to MRV in South Africa: a scoping study, *Climate Policy*, Volume 14, Issue 3, May 2014, pages 397-416.

Rennkamp, Britta and Dhesigen Naidoo (2011): Shifting governance in STI: an analysis of the global governance institutions and their impact on South African policy, *South African Journal of International Affairs*, Vol. 18, No. 1, 2011, pages 59-81

Rennkamp, Britta (2010): Conceptualizing Sustainable Development as a Global Problem: the role of strategic knowledge, Special Issue 'Innovation for Sustainability', *African Journal of Science, Technology, Innovation & Development*, Volume 2 No 1, pages 183-196

### BOOK CHAPTERS

Rennkamp, Britta, Fernanda Fortes Westin and Carolina Grottera (2020): Política de conteúdo local e incentivos financeiros no mercado de energia eólica no Brasil, in: Comissão Econômica para a América Latina, (ed) Big Push para Sustentabilidade no Brasil, (CEPAL)/ Economic Commission for Latin America and the Caribbean (ECLAC), United Nations, Brasília.

Burton, Jesse, Lott, Tawney and Britta Rennkamp (2018): Sustaining Carbon Lock in: Fossil Fuel Subsidies in South Africa in: Jakob Skovgaard and Harro van Asselt (eds) *The Politics of Fossil Fuel Subsidies and Their Reform*, Cambridge University Press.

Rennkamp, Britta and Bhuyan, Radhika (2017): The Social Shaping of Nuclear Technology in South Africa, Douglas Arent, Channing Arndt, Mackay Miller, Finn Tarp, and Owen Zinaman (eds.): *The Political Economy of Clean Energy Transitions*, Oxford University Press.

Rennkamp, Britta (2017): Out of sync: innovation policy and theory in unequal societies, in Stefan Kuhlmann and Gonzalo Ordoñez: *International Research Handbook on Science, Technology and Innovation Policy in Developing Countries: Rationales and Relevance*, Edward Elgar, Cheltenham.

Rennkamp, Britta, Perrot, Radhika (2016): Drivers and Barriers to Wind Energy Technology Transitions in India, Brazil and South Africa, in Hans Günter Brauch, Úrsula Oswald Spring, John Grin, Jürgen Scheffran (Eds.): *Handbook on Sustainability Transition and Sustainable Peace (STSP)*, *Hexagon Series on Human and Environmental Security and Peace 10*, Springer, London.

Rennkamp, Britta (2012): 'Development first' in the G20 and the BRICS Reflections on Brazil's foreign politics and civil society, in *'Inside a Champion: Brazil's Development Model'* eds. Heinrich Boell Foundation, Rio de Janeiro.

Rennkamp, Britta (2010): Politikinnovation in der Innovationspolitik? Internationale Innovations- und Wissenschaftspolitik in Schwellenländern. In: Biniok, Peter (Hrsg.): *Technik, Wissenschaft und Politik. Neue Forschungsperspektiven*. Frankfurt a. M.: Peter Lang, p.67-82.

Altenburg, Tilman, Rennkamp, Britta (2009): Globalisierung von Wissenschaft und Innovationsprozessen – Herausforderung für Global Governance in *Globale Trends 2010 Frieden - Entwicklung - Umwelt*. Hrsg: Stiftung Entwicklung und Frieden, Fischer Verlag.

#### MONOGRAPHS

Rennkamp, Britta (2011): Innovation for all? Legitimizing Science, Technology and Innovation Policy in Unequal Societies, *Doctoral Thesis*, ISBN 978-94-6191-067-7

#### PEER REVIEWED RESEARCH REPORTS AND CONFERENCE PAPERS

Davis, Marion, Rennkamp, Britta et al (2021) Seizing South Africa's Urban Opportunity, Tackling urban poverty and inequality through decarbonisation and resilience-building. Coalition of Urban Transitions, Washington DC.

Rennkamp, Britta (2020). Can Africa's Contested Energy Futures Create Opportunities for Enhancing African-European Relations? South African Institute of International Affairs, JSTOR.

Rennkamp, Britta (2020) Implementation risk in South African and Brazilian climate policy, COP 21 RIPPLES, Deliverable 4.4. European Commission, H2020.

Rennkamp, Britta, Katrina Lehmann Grube, Rejoice Mabhena and Annela Anger-Kraavi (2020) Climate change mitigation, Rapid Transitions and Social Inequality in South Africa, COP 21 RIPPLES, Deliverable 3.6. European Commission, H2020.

Rennkamp, Britta, Maria Gabriela von Bochkor Podcameni, Katrina Lehmann Grube, Rejoice Mabhena and Annela Anger-Kraavi (2020) Climatic Change, Rapid Transitions and Social Inequality in Brazil, COP 21 RIPPLES, Deliverable 3.6. European Commission, H2020.

Rennkamp, Britta (2019) The role of NDCs in fulfilling energy related SDGs in Sub-Saharan Africa, Policy Brief, CUTS International Geneva.

Rennkamp, Britta and Jesse Burton (2018): Redirecting fossil fuel subsidies to fund sustainable development, Policy Brief, World Wildlife Fund WWF South Africa.

Rennkamp, Britta and Fernanda Fortes Westin (2018): Local content requirements and financial incentives in emerging wind energy markets in Brazil and South Africa in Zachmann, Georg et al (ed) Report on assessing the technology innovation implications of NDCs, technology portfolio choices, and international competitiveness in clean technologies, Deliverable 3.3. COP 21, RIPPLES.

Rennkamp, Britta, Trollip, Hilton, Keen, Samantha, Moyo, Alfred (2018) South African's Technology Innovation Systems for Concentrated Solar Power in Zachmann, Georg et al (ed) Report on assessing the technology innovation implications of NDCs, technology portfolio choices, and international competitiveness in clean technologies, Deliverable 3.3. COP 21, RIPPLES.

Burton, Jesse, Lott, Tawney and Britta Rennkamp (2016): Sustaining carbon lock-in: fossil fuel subsidies in South Africa, Stockholm Environment Institute Workshop on Fossil Fuel Incentives.

Rennkamp, Britta and Radhika Bhuyan (2016): The Social Shaping of Nuclear Technology in South Africa, Working Paper, UNU WIDER, Helsinki.

NON-PEER REVIEWED CONFERENCE PAPERS AND RESEARCH REPORTS:

Masheleni, Celine, Cobban, Leigh and Rennkamp, Britta (2019) Gearing the 4th Industrial Revolution towards Climate Compatible Development in Africa, Conference Paper presented at the African Research University Alliance (ARUA) Second Biennial Conference: Africa and the Fourth Industrial Revolution: Defining a Role for Research Universities University of Nairobi, 18-20 November 2019

Rennkamp, Britta (2016): Trading off climate change mitigation and poverty eradication in South Africa: drivers and barriers to institutional change, Conference Paper to the Berlin Conference on Global Environmental Change, Transformative Global Governance Post-Paris, 23-24<sup>th</sup> of May, 2016.

Rennkamp, Britta, Sebastian Haunss, Araceli Ortega, Erika Casamadrid, Krid Wongsa (2016): Trade offs or win-win situations? Renewable energy programs in middle income countries, Conference Paper to the Berlin Conference on Global Environmental Change, Transformative Global Governance Post-Paris, 23-24<sup>th</sup> of May, 2016.

Rennkamp, Britta and Andrew Marquard (2016): South Africa's multiple faces in current climate clubs, Conference Paper to the Berlin Conference on Global Environmental Change, Transformative Global Governance Post-Paris, 23-24<sup>th</sup> of May, 2016.

Rennkamp, Britta, La Grange, Sasha, Stone, Adrian, Trollip, Hilton (2015): Towards prosperity through low emissions pathways in Sub-Sahara Africa: Insights from Ghana, Rwanda, Zambia and Mozambique, Conference Paper to Fifth Climate Change and Development Conference (CCDA-V), 28-30<sup>th</sup> October, 2015, Victoria Falls, Matabeleland North, Zimbabwe.

Buijs, Bram, Winkler, Harald and Rennkamp, Britta (2014): Successful energy innovation in South Africa and around the world, A study in support of DST's Energy Research, Development and Innovation Strategy, ERC Working Paper, Cape Town.

Caetano, Tara and Britta Rennkamp (2014): Socio-economic implications of additional nuclear power plants in South Africa, ERC Working Paper on behalf of the International Atomic Energy Agency, Cape Town.

Boyd, Anya, Keen, Samantha, Rennkamp, Britta (2014): A comparative analysis of emerging institutional arrangements for domestic MRV in developing countries, ERC Working Paper, Cape Town.

Rennkamp, Britta, Westin, Fernanda (2013): Feito no Brasil? Made in South Africa? Boosting technological development through local content requirements in the wind energy industry. Conference Paper presented at 11<sup>th</sup> Globelics Conference, 11-13<sup>th</sup> of September 2013, Ankara, Turkey.

Rennkamp, Britta (2013): South African approaches to MRV of mitigation actions: The case of installing solar water heaters. Measurement and Performance Tracking Project Case Study Series, World Resource Institute, Washington D.C.

Rennkamp, Britta, Caetano, Tara, Marquard, Andrew (2013): Estimating effective carbon prices: A case study for South Africa, Environment Secretariat, Environmental Policy Committee, OECD, Paris.

Rennkamp, Britta, Moyo, Alfred, Grottera, Carolina, Wills, William (2012): Reducing inequality and poverty while mitigating climate change: Key challenges for research and practice in middle-income countries in Africa and Latin America. MAPS Working Paper, Cape Town

Wlokas, Holle, Rennkamp, Britta, Torres, Marta, Winkler, Harald, Boyd, Anya, Tyler, Emily Fedorsky, Catherine (2012): Low Carbon Development and Poverty: Exploring poverty alleviating mitigation action in developing countries, MAPS Working Paper, Cape Town

Boyd, Anya, Rennkamp, Britta, Winkler, Harald, Larmour, Richard, Letete, Thapelo, Rahlao, Sebataolo, Trikam, Ajay (2012): South African approaches to measuring, reporting and verifying: A scoping report, ERC Working Paper, Cape Town

Rennkamp, Britta (2012): Sustainable Development Planning in South Africa: A Case of over-Strategizing? Conference Paper for the 2012 Berlin Conference of the Human Dimensions of Global Environmental Change on "Evidence for Sustainable Development". 5- 6<sup>th</sup> October 2012, Berlin

Rennkamp, Britta, Kuhlmann, Stefan (2010): Endogenous vs. exogenous models for innovation policy in late industrializing countries, Conference Paper UNESCO South Asia and South East Asia Science and Technology Policy Forum on 'Regional cooperation in science and technology: Opportunities and challenges in the context of Globalization', Delhi, 26-29<sup>th</sup> November 2010

Fischer, Doris, Rennkamp, Britta (2009): Addressing global challenges: New approaches and governance mechanisms for multinational science and technology cooperation, Background paper to the Workshop of the Committee for Scientific and Technological Policy (CSTP) Paris, 25-26<sup>th</sup> March 2009: OECD

Stamm, Andreas, Dantas, Eva, Fischer, Doris, Ganguly, Sunayana, Rennkamp, Britta (2009): Sustainability-oriented innovation systems: towards decoupling economic growth from environmental pressures? Discussion Paper 20/2009, Bonn: Deutsches Institut für Entwicklungspolitik / German Development Institute.

#### ESSAYS & ARTICLES

Rennkamp, Britta, David, Anda, Leibbrandt, Murray (2022) Navigating just transitions towards net zero emissions, Africa in Fact, 60.

Rennkamp, Britta and Lina Audehm (2020) Flattening the Curve of Global Emissions? Learnings for Collective Action on Climate Change from the COVID 19 pandemic. ACIDI Blogs, republished on Africa Portal.

Rennkamp, Britta (2019): Negotiating climate change between unequal parties: COP25 from an African perspective, Africa Portal.

Rennkamp, Britta (2018): Alternative energy innovation for keeping Africa's climate below 1.5° C. Africa Portal.

Rennkamp, Britta (2013): Außenpolitik und gesellschaftliche Entwicklung in Südafrika und Brasilien, Aus Politik und Zeitgeschichte, 63. Jahrgang 50–51/2013

Rennkamp, Britta and Holle Wlokas (2012): A brief inspiration on poverty and climate change mitigation, MAPS Policy Brief, Cape Town

#### EDITORSHIPS

Britta was the guest editor of the Special Issue on Innovation for Sustainability of the African Journal of Science, Technology, Innovation and Development (volume 2, number 1)

#### PROJECTS

1. Transforming Social Inequalities Through Inclusive Climate Action (TSITICA) (Consortium lead by UCT, funded by the UK GCRF)
2. Preparedness for Resilience through Innovation and Integrated Management of Emergencies and Disasters (PRIMED), (funded by the UK Global Challenge Research Fund)

3. Horizon 2020 RIPPLES: COP21: Results, Implications, Pathways and Policies for Low-Emissions European Societies (Consortium lead by IDDRI, funded by EU)
4. Networking solutions for climate and poverty compatible development pathways (SCPD), (funded by the UK Global Challenge Research Fund)
5. Fossil Fuel Subsidies and their Reform, (Stockholm Environment Institute)
6. Transforming Energy Access, (TEA), DFID funded with the Carbon Trust, UK and TERI, India
7. Climate Clubs (German Development - Wuppertal Institute, funded by German Ministry for Economic Cooperation)
8. The Political Economy of Clean Energy Transitions (United Nations University)
9. Mitigation Action Performance Tracking (University of Cape Town, World Resource Institute)
10. Climate Change Mitigation and Poverty Reduction CLIMIP (University of Cape Town, German Institute of Global and Area Studies, Monterrey Tech Mexico, University of Chiang Mai, Thailand)
11. Mitigation Plans and Scenarios MAPS (University of Cape Town funded by Children Investment Fund Foundation, Climate research and stakeholder engagement with Brazil, Peru, India, Colombia and Chile)
12. Mitigation Action Impacts (University of Cape Town, funded by UNITAR)
13. MAPS Africa (Feasibility study of knowledge co-production processes with Zambia, Kenya, Rwanda, Mozambique and Ghana funded by CDKN)
14. Energy Research, Development and Innovation (University of Cape Town, Department of Science and Technology South Africa)
15. Sustainable Solutions through Research (German Development Institute, South Africa's Department of Science and Technology, Germany's Department of Research and Education)
16. Global Research Governance (German Development Institute-OECD)

#### TEACHING

Lectures in the Climate Change and Renewable Energy Courses, Master Program Energy and Development Studies, Energy Research Centre, University of Cape Town, 2012-2015.

Course convening, lectures and seminars in the course: "Energy Markets and Governance" as part of the Master of Philosophy in Energy and Development Studies, University of Cape Town in 2013, 2014, 2015 and 2016.

Teaching in the Master course for a Master of Philosophy in Climate and Development 2015 - 2022, lectures & tutorials on climate policy and transition theory.

Lecture on climate policy in the Climate Science Analysis Group, UCT, Winter School, 2017.

Lecture on South African Climate Policy in the Globelics Academic, Institute on Economic Research on Innovation, Tshwane University of Technology, Tshwane/ Pretoria, 2019.

#### SUPERVISION

Supervision of Masters (MPhil) and PhD (14 MPhil, 2 PhD students graduated) - 3 PhD and 2 Master students currently under supervision.

#### HONORARY APPOINTMENTS

1<sup>st</sup> Chairperson of Thandolwethu Home – Unsere Liebe e.V.: Support of children safety homes in Cape Town's largest informal settlement, Khayelitsha.