

Curriculum Vitae: Belynda Petrie

Nationality	South African
Education	PhD Candidate, University of Cape Town (2017): 'Toward Cooperative Governance for Water Security in Africa' BA Law (1986) University of Cape Town BA (Honours), Clinical Psychology (1992) University of South Africa
Languages	English (fluent), Afrikaans (fluent), French (fair)
Membership of professional bodies	<ul style="list-style-type: none"> • IPCC AR6 Contributing Author for Chapter 4, Africa • Chair (1 September 2017 – 31 August 2020) of the Scientific Programme Committee (SPC) for the World Water Week in Stockholm • Senior Research Associate, South African Institute for International Affairs (SAIIA) • United Nations Framework Convention on Climate Change (UNFCCC) • Advisory Group for the Global Water Partnership, Water, Climate and Development Programme • South African Wind Energy Association; Sustainable Energy Society South Africa • Forum for Sustainable Development; World Business Council for Sustainable Development • Registered Mediator: Environmental Arbitration & Dispute Resolution Panel, SA.
Board Directorships	<ul style="list-style-type: none"> • VulAmanz Water Filters • Alliance for Global Water Adaptation (AGWA)

Employment record

2001 - Present	CEO and Co-founder OneWorld Sustainable Investments
1998 - 2000	Director, Strategy & Human Resources Datatec Ltd
1996 - 1998	Director, Human Resources Reunert Engineering Ltd
1994 - 1996	Human Resources Manager Malbak Motor Holdings
1990 - 1994	Director and Consultant, Change Management Synchronet
1987 - 1990	Industrial Relations Consultant Personnel Planning Group

Countries of work experience (last ten years)

2008 - 2012	Uganda
2005 - 2012	Southern Africa – Angola, Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Eswatini, Zambia, Zimbabwe
2013	Burundi, DR Congo, Egypt, Ethiopia, Kenya, Rwanda, South Sudan, Sudan, Tanzania, Uganda
2011 - 2014	Africa-wide (supporting Africa Group of Negotiators)
2015 - present	Bangladesh, Caribbean, South East Asia, Southern Africa wide, Seychelles, Mozambique, Mauritius, Tanzania



Relevant professional experience

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- April 2020 – February 2021 – Development of Capacities for Green Climate Fund Project Development
African Development Bank, Climate Change and Green Growth Department (PECG)
- Project lead, South African expert, climate finance specialist**
- Development of Capacities for Green Climate Fund Project Development. Lead on developing a training course to capacitate a regional pool of experts to support African Direct Access Entities (DEAs) in developing successful project proposals to access the Green Climate Fund (GCF).
- Activities include a stock take and gap analysis of existing training materials including a literature review, stakeholder engagements and a training needs assessment, development of training materials including six modules, case studies and an online training platform in English, French and Portuguese, and the delivery of Training-of-the-Trainer sessions through online modalities for Anglophone and Francophone regions.
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- March – June 2020 – Baseline Assessment of the Orange-Senqu River Mouth Rehabilitation Demonstration Project in South Africa and Namibia
Orange-Senqu River Commission (ORASECOM), funded by UNDP GEF
- Team Lead; Social Scientist & Natural Resource Governance**
- This project involves undertaking a baseline and situational analysis for the rehabilitation and sustainable management of the Orange-Senqu River Mouth (OSRM).
- Activities: developing a comprehensive desktop and literature review; carry out structured stakeholder engagements and participatory analysis; develop and apply a basic multi-criteria decision-making tool; and co-developing and prioritising management interventions for OSRM
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- December 2019 – July 2020 – Water Information Sharing Explorations (WISE) Initiative
Global Water Partnership (GWP), Global Secretariat
- Expert consultant**
- The Water Information Sharing Explorations (WISE) Initiative is designed to create actionable opportunities for new and better ways of sharing information on water quantity and quality as a means for more effective and integrated water management, contributing to achieving the Sustainable Development Goals (SDGs).
- Belynda Petrie has been contracted to GWP to provide input to the activities of the initiative. The Initiative is planned across two phases, (1.) Opportunities for Action and (2.) Piloting for Action.
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- April 2020 – November 2020 – Supporting the Development of a GCF Proposal for Enhancing Adaptive Capacity and Climate Resilience of Vulnerable Smallholder Farming Communities and Agro-pastoral Systems in Semi-Arid Areas of Tanzania
IUCN and Enabel (on behalf of the Ministry of Finance, Government of Tanzania)
- Project lead, Climate change adaptation expert**
- Development of a Green Climate Fund Proposal for Enhancing Adaptive Capacity and Climate Resilience of Vulnerable Smallholder Farming Communities and Agro-pastoral Systems in Semi-Arid Areas of Tanzania. Lead on developing the technical feasibility assessments required for this project to include: Climate Change Vulnerability and Adaptation Assessment; Gender Analysis; Economic/Financial Appraisal; Stakeholder Engagement; Site Visits; Agriculture Value Chain Assessments.
- The assignment involves updating the concept note and developing feasibility studies to support the project. As Team Lead, Belynda will be reviewing and giving input to the annexes which include a detailed gender analysis report.
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April - Facilitation of the Establishment of National Focal Groups in SADC Member States
September 2020 Southern African Development Community Groundwater Management Institute (SADC-GMI), funded by the World Bank

Team leader, capacity development & training specialist

This project involves setting up and piloting National Focal Groups (NFGs) in five of the SADC member states, to support integrated groundwater management through improved dialogue and exchange, capacity building and implementation of pilot projects.

Activities include leading the team in developing generic terms of reference to support the establishment of the NFGs in consultation with stakeholders; recruiting local experts in member states to drive the stakeholder engagement processes in each Member States and map potential participants; supporting the establishment of the NFGs with and within the hosting institution; assessing the NFG training needs, and implementing a 3-day blended learning training course for NFGs members.

January - Scaling Climate Action Through Climate Technology and Innovation by SMEs
September 2020 African Development Bank, Climate Change and Green Growth Department (PECG); under Natural Eco Capital

South African Expert & Tool Development Lead

This project aims to enhance the capacity of small and medium-sized enterprises (SMEs) to develop businesses through accessing opportunities in the climate resilience and response space, as aligned with Nationally Determined Contributions, and/or to de-risk their enterprises against climate change.

Activities involve developing a climate change risk and opportunity screening toolkit, GHG reduction emissions strategy toolkit and a toolkit training manual to enhance and capacitate SMEs in Africa to identify and develop climate-smart and bankable projects; conducting a SME country case for South Africa and presenting a webinar on the challenges and opportunities for green businesses.

December 2019 - Developing a Situation Analysis Report on Climate Change and its Impact on Mining in South Africa
- June 2020

Department of Environment, Forestry & Fisheries (DEFF); Department of Mineral Resources (DMR) / International Institute for Sustainable Development (IISD), funded by USAID

Project lead, Climate Change Adaptation Expert

Climate change risk and vulnerability (R&V) assessment for the mining sector in South Africa, involving desk-based research and analysis; initial stakeholder consultations, to develop a situation analysis report on the impact of climate change on mining in South Africa.

Tasks will include: i) political economy analysis: stakeholder mapping, roles and vested interests; drivers and barriers of climate change adaptation action; ii) climate change adaptation analysis - identifying key climate risks and vulnerabilities, based on climate change projections; scoping current and planned adaptation initiatives in the mining sector in response to climate change impacts.

February - Training Manual on the preparation of proposals to access funding for Sustainable Ground
September 2020 Water Management in SADC Member States

Southern African Development Community Groundwater Management Institute (SADC-GMI), funded by the World Bank

Project lead, Climate finance expert

This project aims to address some of the challenges of accessing finance for groundwater infrastructure investments in the SADC region, through development of a stakeholder

needs-driven, user-friendly training manual for project proposal preparation to access funding for groundwater related infrastructure projects.

Addressed the key challenges of accessing finance for groundwater infrastructure investments in the SADC region; developed a stakeholder needs-driven, user-friendly training course and manual for project proposal preparation to access funding for groundwater projects; conducted the legal and policy literature review, developed the Training Manual content; delivered a blended learning based training course for trainers and facilitating travel.

December 2019 - Review of the OKACOM Agreement

The Permanent Okavango River Basin Water Commission (OKACOM)/ UNDP Global Environmental Finance (GEF) Unit

Project lead

Review and revision of the 1994 OKACOM Agreement and other supporting / relevant documents to reflect regional and international trends in river basin management and international water law.

Tasks include: literature and desktop review; legal and institutional analysis; conducting key-informant interviews and facilitating focus group discussions; alignment of the Agreement with related regional and international instruments; stakeholder consultation; production and approval of revised Agreement (and associated instruments).

March – SEED Practitioner Labs Climate Finance: Prototyping Innovative Financial Products to
September 2019 Drive Climate-Smart Economies

SEED, funded by BMU

Expert reviewer

SEED Practitioner Labs Climate Finance engage leading finance-focused organisations and financial institutions to co-create climate finance prototypes that increase financing for the missing middle of small and growing eco-inclusive enterprises. SEED Labs participants are empowered during the hands-on process to turn major financing challenges into robust prototypes that innovate the next generation of climate finance. OneWorld was contracted as a challenge host for the SEED Climate Finance Labs.

August – Case Study: The South African Renewable Energy Independent Power Producer
December 2019 Procurement Programme

Managing Infrastructure Investment Reform and Regulation in Africa (MIRA) Programme, Graduate School of Business, University of Cape Town/ Oxford Policy Management

Expert reviewer

Update and summary of South Africa's progress on and experience with the Renewable Energy Independent Power Producer Procurement Programme (REI4P), situated within the political and socioeconomic context of the country's electricity sector. The case study report distilled the country's experience with renewable energy auctions through the implementation of the REI4P and identified key lessons for other countries in auction design.

June 2019- Technical Advisory Services on the Piloting Activities for the Preparation of Country
January 2021 Programmes and Related Processes for the Green Climate Fund

Green Climate Fund, under contract to OPM

Project Lead – Africa region

Technical Advisory Services on the Piloting Activities for the Preparation of Country Programmes and Related Processes for the Green Climate Fund. Lead on Africa region to provide technical advisory services to various national ministries in three project countries and in order to enhance the quality, as well as ownership, of funding proposals generated



by countries attempting to access the GCF, with a view to ensuring that climate finance from the GCF has maximum impact. Tasks include assisting the target countries to develop their Country Programmes and is capacitating countries to develop the climate rationale needed to underpin bankable proposals through providing technical climate change analysis, conducting validation workshops to analyse the outcomes, and through guidance documents; identifying impact pathways, and approaches to resolving barriers and risks to underpin project proposal development within the country programmes and supporting the prioritisation and development of climate change projects and is conducting economic risk assessments and cost benefit analyses. The expert is facilitating an online Training of the Trainers course.

November 2019- January 2020 Capacity needs assessment in the areas of Environmental and Social Safeguards, Gender Equality and Indigenous Peoples

Green Climate Fund (GCF)

Project Lead

Led this project aimed at providing technical support and continued development of the technical competencies of Accredited Entities (AEs) and GCF staff; specifically, ensuring that GCF requirements, including the Environmental and Social Safeguards (ESS) policy, Gender Policy and Indigenous Peoples Policy, are fulfilled and maintained throughout the duration of a project lifecycle.

Tasks: Led the development of a training needs assessment: online questionnaire and participatory analysis (interviews and focus group discussions) to verify and validate survey findings; report with recommendations for the GCF.

May 2019 – Feb 2020 Climate Resilience & Risk Finance Research

Centre for Global Disaster Protection funded by DFID and implemented by Oxford Policy Management (OPM)

Lead Researcher

Contributed to the Centre’s conceptual framework through identifying principles and mechanisms for risk financing and exploring context and entry points for package of policy and evidence interventions on risk and climate resilience financing.

Conducted a study on climate resilience and risk finance to support the UK’s position as Co-chair of the Resilience Pillar of the UN Climate Summit in September 2019, and as host of the COP26 in Glasgow in 2020. Facilitated a workshop on bridging climate risk and climate resilience financing and reviewed the Centre’s flagship report; Advised on the strategic direction of the Centre in preparation for COP26.

July 2018 – February 2020 – “Sustainable Low-Income Energy Services” Study to the Benefit of The City Of Cape Town

Suez/Safege, under contract to Agence Française de Développement (AFD), for the City of Cape Town

Project Lead; Socio Economic Analyst

Financial and economic study towards development of Cape Town’s Low-Income Energy Services programme, examining costs and benefits associated with different approaches/alternatives to delivering energy services to low income households in Cape Town.

Responsibilities: Responsible for leading the project and analysis of optimal energy services and resultant socio-economic co-benefits. Contributed to the establishment of a Green Deal between the City of Cape Town (South Africa) and the French Development Agency (France).

Jan 2018 – Feb 2020 “Climate Change Hazard, Vulnerability and Risk Assessment” Study to the Benefit of the City of Cape Town



Suez/Safege, under contract to Agence Française de Développement (AFD), for the City of Cape Town

Project Lead; Adaptation Investment Expert

The aim of this study is to assess the nature and spatial location of hazards, vulnerabilities, and risks in Cape Town, given current climate change projections, to enable the City to make decisions not only on new investments, but also on how it should potentially adjust existing projects to ensure better climate proofing.

Activities conducted: lead on participatory analysis process and fieldwork, validation process, e.g. of risk profiles and opportunity assessments. Identification of priority actions and investment projects. Developed a climate investment plan, five concept notes for identified investment priorities, as well as two project proposals for accessing climate finance. Presentation and validation of findings with project members from the City and stakeholders. The expert contributed to the establishment of a Green Deal between the City of Cape Town (South Africa) and the French Development Agency (France)

Jan 2019 – March 2019 – Institutional Arrangements for Managing the Restructuring of National Power Utilities
Managing Infrastructure Investment Reform and Regulation in Africa (MIRA) Programme, Graduate School of Business, University of Cape Town

Expert Reviewer

Provided expert review during the development of a policy note, detailing six country case studies on experiences with electricity sector restructuring, with a specific focus on institutional and governance arrangements. Drawing key lessons and making recommendations for South Africa’s ongoing power sector reform process, the policy note contributed towards the work of the Presidential Eskom Sustainability Task Team in establishing a roadmap for restructuring of the South African state-owned electricity utility company.

Aug 2018 – May 2019 – “State of Preparedness of South African Cities in Addressing Climate Change Challenges and Building Climate Resilience”

Department of Environmental Affairs, South Africa funded by GIZ

Project Lead; Climate Adaptation Expert

Development of a resilience assessment tool and indicator framework for assessing urban climate resilience in South African cities, to monitor and evaluate city-level progress toward achieving urban resilience. Development and validation of a resilience indicator framework, workshop facilitation lead and participatory analysis across 15 pilot cities (8 metropolitan municipalities and 7 secondary cities); lead on the development of an investment plan for building cities resilience and developed 3 bankable project proposals for accessing climate adaptation finance..

Jan – April 2019 – Guidelines for Screening Climate Change in Sectoral Policies, Plans and Strategies, Zambia
Ministry of National Development Planning; Pilot Program for Climate Resilience (PPCR), Zambia, funded by the World Bank

Project Lead; Climate, Policy Expert

Project lead to develop guidelines and a tool for screening climate change in sectoral policies, plans and strategies; conduct a situational analysis on sector policies, plans and strategies to inform the development of the guidelines and tool, and; trained sectors on mainstreaming climate change into their sector policies to enable project identification and climate finance proposal development.

Oct 2017 – April 2019 – The Just Transition to a Low Carbon Climate-Resilient Society
National Planning Commission, managed by the Department of Planning, Monitoring & Evaluation, Government of South Africa; in partnership with Sustainable Energy Africa (SEA)



Senior Practitioner and Facilitator

Co-implemented the project to include facilitating a series of bilateral, provincial and cross cutting social partner dialogues aimed at co-determining the vision and pathways toward a Just Transition to a low carbon, climate-resilient society in South Africa, that is equitable, alleviates poverty, and protects employment.

Designed and facilitated multiple dialogues and led the research for and facilitation of a shared vision and plausible pathways, through a social compact, for achieving Vision 2050. The three focus pathways that emerged from this process are water, land-use and energy.

Feb – March 2019 – Mid-Term Review: Implementation of the Southern African Development Community Regional Strategic Action Plan on Integrated Water Resources Development and Management (2016-2020)

Southern African Development Community (SADC), funded by GIZ

Project Lead

A review of progress towards achieving the objectives of the Regional Strategic Action Plan (RSAP IV, 2016-2020) and development of key recommendations to inform the next iteration, RSAP V (2020- 2024), applying a theory of change approach, stakeholder engagement, desktop review and a strategic institutional and governance assessment. Lead facilitator on interviews and focus group discussions. Presentation and validation of the findings and recommendations to the SADC Water Resources Technical Committee and Water Strategy Reference Group.

Nov 2018 – March 2019 – Evaluation of the Design and Implementation of the Western Cape Climate Change Response Strategy

Western Cape Dept. Environmental Affairs and Development Planning, South Africa

Project Lead, Climate Governance and Response Expert

Evaluation of the design and implementation of the 2014 Western Cape Climate Change Implementation Response Strategy using a Theory of Change evaluation methodology. Development of indicators of climate change policy implementation, high-level benchmarking analysis and development of a Theory of Change based on the existing Strategy to guide the Evaluation through key informant interviews and focus group discussions with all government departments, and external stakeholders across sectors. Lead on participatory analysis, validation of evaluation findings, recommendations for revision of the Strategy, informed by development of a future focussed Theory of Change.

Oct 2018 – Jan 2019 – Water Diplomacy and Governance of Key Transboundary Hotspots – Salween Component
Swiss Agency for Development and Cooperation (SDC)

Senior Consultant

Identification of suitable entry points for water cooperation in the Salween River Basin and advise SDC in its role in bringing stakeholders together and coordinating approaches in line with the demands of national governments. Cross-examination of various water governance and management proposals for the Salween Basin to determine potential synergies, overlaps and antagonistic relationships. Review and advise on technical aspects of proposals to build cooperation in the basin and assess key risks of development in the basin and associated costs of inaction.

January 2018 – July 2018 – Climate Change Risk & Vulnerability Assessment in Luapula, Muchinga, Northern & Western Provinces, Zambia, under the Pilot Program for Climate Resilience (PPCR)

Zambian Ministry of National Development Planning, funded by International Development Association (IDA)

Project Leader and Climate Response Expert

Socioeconomic assessment, surface and groundwater resource assessment and a detailed climate risk and vulnerability assessment in order to identify responsive and feasible

investments for climate and landscape resilience, enhanced water resource management and improved disaster risk reduction; conduct participatory analysis process and fieldwork, validation process e.g. of risk profiles and opportunity assessments; identify priority actions and investment projects, EWS and disaster risk reduction approaches.

This project included a detailed gender assessment, which ultimately covered 68 of Zambia's districts, across all its provinces, excluding Eastern Province.

Development of five concept notes for bankable proposals prioritising projects based on district/provincial and hotspot analysis (GIS based spatial mapping). Lead the integration of fieldwork, finalisation of risk profiles, economic impacts and potential projects for development, by district. Coordinated and facilitated workshops for the various districts to review identified gaps. Co-developed climate investment priorities for building resilience in the project areas and presented and validated findings with stakeholders and the PPCR

Sep - Dec 2017 Northern Zambia: 1) Landscape Vulnerability Risk Assessment Baseline; and 2) Development of a Decision Support Tool

Zambian National Climate Change Secretariat (NCCS)/Zambian PPCR Implementation Unit in Ministry of National Development Planning / funded by World Bank – TRALARD-Zam under the Pilot Program for Climate Resilience (PPCR)

Project Lead and Scenarios Development Expert; Participatory Rural Appraisal (PRA) Facilitator; Climate change and R&V response expert; Lead author

Risk and vulnerability mapping and baseline assessment; development of a climate vulnerability decision-support framework (tool).

Project lead and lead facilitator to co-develop and test a decision support framework (tool) through participatory analysis / PRA for climate investment and finance prioritisation.. Scenario analysis and identification of policy entry points for reducing vulnerability; Identification of prioritised adaptation and mitigation responses and land uses for increasing adaptive capacity.

June 2017 – July 2018 Learning Partner for the Pilot Program on Climate Resilience (PPCR) in the Climate Investment Funds (CIF)

OneWorld, in association with Oxford Policy Management (OPM) / funded by World Bank

Team lead, Climate Change Adaptation, and Climate Finance Expert

Lead of the OneWorld/OPM team to evaluate, design and facilitate a global learning and knowledge platform for the PPCR/CIF to facilitate the sharing of lessons learned from CIF projects across the globe, to identify effective approaches to building climate resilience amongst PPCR and CIF countries. Establishment of learning networks and exchange platforms, facilitation of co-created research and learnings dissemination, development of an evidence-based knowledge and networking strategy, exchange and dialogue facilitation, development of co-created knowledge products published by the CIF.

April – June 2017; Discussion Paper on the Permanent Okavango River Basin Agreement (Angola, Botswana, Namibia)

June – August 2018 Permanent Okavango River Basin Water Commission (OKACOM)

Project lead and Water Resources Expert

With the objective of furthering transboundary water cooperation in the Cubango-Okavango River Basin (CORB), OKACOM commissioned a OneWorld team, led by Ms Petrie, to review the 1994 Permanent Okavango River Basin Agreement, and produce a Discussion Paper with its findings. The analysed the consistency of the Agreement in guiding the scope of work and extending transboundary water cooperation in the CORB. The review thus aimed to support and inform local, national and regional decision making in the CORB, within a transboundary legal framework. In 2018, OKACOM commissioned an update to the Discussion Paper to incorporate further thinking that evolved from the initial paper and

provide strategic recommendations in terms of the Agreement, towards further strengthening the Basin's security and development prospects.

2014 - 2017	<p>Practitioners' Dialogue on Climate Investments (PDCI)</p> <p>German Federal Ministry for Economic Cooperation & Development/ funded by GIZ</p> <p>PDCI was established as a global platform to facilitate and support private investment in climate change adaptation measures, energy efficiency and renewable energy projects (see http://www.practitioners-dialogue.de/en/).</p> <p>Activities provided: Facilitated dialogue between senior policymakers in developing countries, and professionals in business and the financial sector, to help secure participation of the private and financial sectors. Regular input role in international PDCI meetings on climate finance, policy, green procurement and entrepreneur approaches and the green economy. Specifically, appointed as an Advisor on business model/idea development and policy solutions for enabling climate finance measures needed to trigger and increase private investments in low-emission and climate-resilient business in developing countries and emerging economies. Facilitative role in connecting public sector decision-makers with representatives from finance sector, industry, consulting bodies and academia.</p>
March – June 2017	<p>Renewable Energy Study for Value Chain Cluster Development in iLembe, KwaZulu Natal, South Africa</p> <p>United Nations Industrial Development Organisation (UNIDO) / funded by State Secretariat for Economic Affairs (SECO) of the Swiss Confederation</p> <p>Renewable Energy Expert</p> <p>Ms Petrie contributed to a multi-disciplinary team, as renewable energy lead, mobilised by UNIDO, to assess opportunities for stimulating the value-add opportunities within the sugar and timber value chains, in two urban local municipalities of iLembe District – Mandeni and KwaDukuza. Specifically, OneWorld conducted a pre-feasibility study of the potential for renewable energy within the sugar and timber sector value chains in the area. Under the primary objective of stimulating job creation and enterprise development, the research explored the feasibility of expanded cogeneration in the sugar mills, small and large-scale ethanol production, and grower cooperative level biogas energy projects in the area.</p>
Jan – Feb 2017	<p>Discussion Document on the Dynamics of Nuclear Energy in South Africa</p> <p>Soul City Institute NPC</p> <p>Project lead and Energy Expert</p> <p>OneWorld was contracted by a South African social justice Not-for-Profit organisation to provide a neutral analysis of the status and necessity for the proposed, large scale Nuclear Energy investment programme for South Africa, in order to inform the NPO's investment strategy going forward. The OneWorld team, led by Ms Petrie, carried out a literature review, interviewed a broad range of key experts in the energy sector locally and internationally and conducted a full energy sector and associated opportunity assessment and risk analysis. The resultant Discussion Document reviewed issues of cost and affordability in the envisaged future economic climate of South Africa, within the context of the key triple challenges facing South Africa, of inequity, poverty and unemployment, and a need for investment in the energy sector.</p>
Nov 2016 – Dec 2017	<p>Water Law Equivalence Assessment and Options Paper for the Zambezi River Basin</p> <p>Zambezi Watercourse Commission (ZAMCOM), funded by the World Bank; with ENSafrica</p> <p>Project Lead</p> <p>Designed the methodology and conceptual framework for the assessment conducted across eight southern African countries. Led the assessment of ~400 water laws, policies and regulations (surface and ground water) in accordance with six identified dimensions of water security; equitable access, planned development, regional integration, benefit sharing,</p>

dispute resolution and climate change planning. Led the participatory analysis and validation process through a series of ZAMCOM workshops, interviews and selected in-country workshops. Led the development of an Options Paper for ZAMCOM suggesting evidence-based pathways for harmonisation in priority areas such as planned development, improved information for water resource management and development, and equitable access.

Nov-Dec 2016 – Support to & Formulation of DEA Energy Partnership Programme, Phase 2 (2017-2020)
Danish Energy Agency (DEA)/Greg Moran & Assoc. funded by DANIDA

South African energy expert

Ms Petrie provided local South African expert input towards formulation of Phase 2 of this bilateral cooperation programme in South Africa. The DEA Energy Partnership Programme supports emerging economies (China, South Africa, Vietnam and Mexico) in their low carbon transition. This phase of the programme aims to work with the Dept. of Energy and the local power utility to address energy planning and integration of renewables, for which Ms Petrie provided an institutional analysis, conducted wide stakeholder interviews and developed the programme risk assessment.

April – Strengthening Climate Resilience in the Kafue Sub-Basin Project (SCRKA)
September 2016 – Government of Zambia: National Climate Change Secretariat (NCCS) in Ministry for Development. Funded by World Bank & African Development Bank

Project Director, Water and Climate Finance Expert

Conducted comprehensive risk and vulnerability assessment for the sub-basin; Lead on participatory analysis process and field work; identification of resilience-building interventions and projects for investment and developed concept notes for 9 climate finance bankable proposals; capacitation of stakeholders to integrate climate risks into district and provincial development planning; drafting climate-development policy objectives for the 7th National Development Plan.

Delivery of a Training of the Trainers and training for 60 district, provincial and NCCS officials and NGOs and developed a Training Manual for the ToT, covering climate R&V, economic impacts and costing of adaptation benefits, GIS tools, integrating CC into development planning and developing and financing successful projects, or bankable climate change projects. Lead author on the final project report.

2014-2015 – Political Economic Analysis of the Renewable Energy Industry in South Africa
IDS/University of Cape Town

Advisory on the analysis of the key constraints and opportunities to renewable energy investments (wind and solar); analysis of the political and regulatory environment that enables developments and investments.

July 2012- May 2017 – Resilience in the Limpopo River Basin Programme (RESILIM)
USAID/ Chemonics funded by USAID

Programme lead for Climate Change and Water Resilience

Led the analysis of risk and vulnerability in the Limpopo River Basin, conducted a political economy analysis of water resource management in the Basin, led the climate resilient adaptation strategy development and developed an Investment Strategy for Climate Resilience in the Basin.

Developed six concept notes and 2 funding proposals. Designed six training and capacity building interventions and led the training material development, capacity building and training of Basin country stakeholders; reviewed basin level institutional arrangements and made recommendations for change; co-authored and led the development of three policy briefs.

November 2016 – April 2017 Study on Urban Climate Finance for ‘Cities Fit for Climate Change’: South Africa: eThekweni (Durban)

GIZ, funded by German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMUB) / adelphi

Project Lead and Climate Finance Specialist

The project aimed to improve municipalities’ access to funding for climate change activities and to integrate climate change into local planning processes. Desktop review; interviews with key experts; and a case study, to assess urban climate finance readiness for accessing the GCF (development of indicators);

Built capacities to develop bankable projects that meet GCF criteria within the municipality; Making recommendations for institutional strengthening for climate and development to improve municipal access to climate finance, and improve integration of climate change into local planning. See publications, below. Available online: <https://www.adelphi.de/en/publication/challenges-and-opportunities-urban-climate-finance>

September 2016 – October 2016 Country Strategy Paper-III (2017-2021)

Governments of Flanders and South Africa

Project Lead and Climate Finance Expert

Project lead on the development of a theory of change and strategy for the next 5-year 100% climate finance bilateral programme (starting in 2017) focusing on the green economy, climate change and job creation.

Developed a strategy around the pillars of innovate, test, learn and consolidate so as to inform practical and policy developments in the sphere of enterprise development as a result of a climate change-driven green economy in the water sector of South Africa. Identified pilot projects and conducted participatory analysis with key stakeholders to underpin the strategy development.

May 2015 – Dec 2019 International Climate Initiative (ICI) Vertical integration and learning for low-emission development (V-LED) in Africa and Southeast Asia

Adelphi/German Government International Climate Initiative, funded by German Federal Ministry for Environment, Nature Conservation & Nuclear Safety (BMUB)

Project Lead for South Africa and Kenya

Responsible for management and implementation of selected activities in the two countries:

Planning and advising key government representatives at national and subnational level (selected municipality representatives); Development of a training programme including a Train-the-Trainer component (ToT) and organisation of training seminars for government representatives in subnational administrations on ecological approaches to water management; Conceptualisation and organisation of a good practice exchange series on climate-resilient and low-carbon development aspects for local government in South Africa municipalities; design of an of an issue-specific study tour to Kenya by selected South African government representatives (national and subnational level; government representatives), for a moderated learning exchange with relevant South African stakeholders (national and municipal government representatives and other stakeholders); Development of a research paper on the adaptation/mitigation nexus in Africa, focusing on Kenya and South Africa as case studies.

Oct 2015 – March 2016 Economic Report for Africa (ERA) 2016: Greening Africa’s Industrialisation

UN Economic Commission for Africa (UNECA)

Co-author for the ERA 2016 and lead author ERA 2016 Chapter 5 – ‘Business as usual or a green agenda?’

Chapter development required modelling and analysis of two separate development scenarios, a Business as Usual (BAU) and a Green Growth Agenda Scenario. These scenarios focused on water, energy, agriculture, employment, urbanisation and poverty alleviation for



Africa, following a BAU and a Green Growth agenda. Ms Petrie conducted sector-specific analysis of different development scenario outcomes for chapter 5, formulated policy recommendations for the full report, contributed case studies from the continent to the full report and developed the conceptual framework for the report. The report was launched to African finance and economic development ministers in Addis Ababa in May 2016.

2015

Bangladesh Country Programme

DANIDA

Climate change and climate finance advisor

Advisor in development of the Bangladesh Country Programme, which includes agriculture, governance, textile and clothing industry development with climate change and finance as cross cutting elements. Co-Authored the country programme design document and conducted in depth, in country fieldwork as part of the analytical framework. Advised on redesigning the institutional arrangements of the country's water and sanitation institution to ensure that it is climate finance ready and compliant with international and national regulatory standards.

2015

Political Economy of Climate-Relevant Change Policies: The Case of Renewable Energy in South Africa (IDS Evidence Report 128)

Policy Research in International Services and Manufacturing (PRISM) / Institute of Development Studies (IDS), funded by DFID

Part of the IDS programme on Strengthening Evidence-based Policy. Investigating power dimensions and struggles between various interests within the energy sector in South Africa. The report provides insight into how the political economy environment has impacted the unfolding of South Africa's climate change policy, with a specific focus on the deployment of private sector-driven renewable energies – through the Renewable Energy Independent Power Producer Procurement Programme (RE IPPPP).

Belynda provided valuable comments on the report, based on her extensive knowledge of the political context of the energy sector in South Africa.

2014

Biomass Energy Options: Policy study

Renewable Energy and Energy Efficiency Partnership (REEEP) under the Community & Household Options in Choosing Energy Services (CHOICES) project; with additional funding from IIED's Joint Framework partners: Danida Sida and Irish Aid

Author

The research report examined the potential for biomass as an energy option in South Africa, particularly for people living in rural areas. The case study was developed under the auspices of REEEP with co-funding from IIED, and input from The Energy and Resources Institute (TERI, India).

Authored policy report, which included an overview of the SA biomass energy sector, including the policy environment; an overview of existing operators and emerging opportunities; an analysis of factors affecting stimulation of the sector in South Africa; an analysis of the results of an energy survey in the Eastern Cape (carried out under CHOICES); identification of options for, and challenges to, development of community-driven biomass energy (community-based forestry enterprises), along with critical success factors, challenges and barriers.

The report was published by IIED in 2014 and is available online <http://pubs.iied.org/16045IIED/>.

June 2013- July 2014

Climate Finance Readiness (CFR) Project in Southern and Eastern Africa

United Nations Development Program (UNDP)

Project lead and climate finance expert



<p>Conducted six in depth country case studies across Southern and Eastern Africa. Facilitated high level Round Table Discussions in each case study country and facilitated a cross learning knowledge platform between the six countries for the duration of the project. Made recommendations for enhancing readiness, aligned with the Green Climate Fund and the global climate finance architecture requirements; developed project policy briefs; and built capacity of stakeholders and practitioners in the six project countries. Presented the study findings to UNDP Head Quarters team in New York and at COP 20 in Lima.</p>	
<p>November 2013 – September 2014</p>	<p>Pilot Program for Climate Resilience (PPCR) in Mozambique: An Assessment of Climate Resilient Livelihood Options in Drought Prone Areas</p> <p>Mozambique Ministry for Development Planning (República De Moçambique Ministério Da Planificação E Desenvolvimento); and the World Bank (under Climate Investment Funds)</p> <p>Project Lead and Water Resource Expert</p> <p>Conducted a risk and vulnerability assessment, desktop and participatory assessments and fieldwork to identify feasible resilience building investments, especially in response to the high risk and incidence of drought in southern Mozambique.</p> <p>Activities included: Mapping risk and vulnerability to climate change in the six districts, using spatial mapping analysis; Fieldwork to interview farmers, citizens, government, civil society and the private sector with a view to establishing needs and feasible investments; Facilitating stakeholder workshops in the province of Gaza, including all districts concerned to assess R&V and to identify priority solutions; Synthesis and analysis and investment reports for the ministry, provincial stakeholders and the World Bank. Developed 2 climate finance Concept Notes for the Adaptation Fund and reviewed 4 others.</p>
<p>March 2013 – May 2013</p>	<p>Analysis of Projected Climate Change and Livelihoods: A Pilot Study in the Botswana Access Livestock and the Mozambique Coastal Zambezia Livelihood Zones (SADC RVAA Programme)</p> <p>SADC Regional Vulnerability Assessment and Analysis (RVAA) Programme, funded by Southern African Development Community Food, Agriculture and Natural Resources (SADC-FANR) Directorate</p> <p>Activities performed: compiled data, information and information system prerequisites for the climate change analysis (through GIS mapping); provided Climate R&V and Scenario Analysis; identified key hazards; provided GIS mapping, Participatory analysis with stakeholders, and Climate Change and Livelihood Scenario Simulation. for the Development of a Climate Change Response Strategy</p>
<p>2013</p>	<p>Nile Basin Initiative: Review of all Environmental policies and strategy; Development of the Nile Basin Climate Change Strategy</p> <p>GIZ, through Adelphi consult</p> <p>Technical Advisor and Facilitator on developing the Nile Basin Climate Change Strategy, conducting a technical review of the NBSF, the Wetland Strategy, the ENSAP and the Water Policy; institutional analysis and review of capacity and mandate of the NBI; facilitation of NBI and Technical Committee review meetings in Uganda and Ethiopia.</p>
<p>2013</p>	<p>Renewable Energy Programme for South Africa</p> <p>DANIDA</p> <p>Lead Advisor and Project Manager</p> <p>Advisor for the evaluation and review of the DANIDA funded Renewable Energy Programme for South Africa. Evaluated the programme design and efficacy, with recommendations for the formulation of the remainder of the programme. Subsequently appointed as Project Manager on the implementation of the programme, including facilitating the programme’s legal agreement between the key beneficiary institutions (Department of Energy, ESKOM and the South African National Energy Development Institute (SANEDI). Provided advisory to all 3 institutions and the Danish Embassy on</p>



	programme implementation design and on the institutional arrangements for ongoing programme management and governance.
2013	<p>Appraisal Renewable Energy Programme for South Africa</p> <p>Danish Foreign Ministry (MFA) / the Danish Ministry for Climate Change, Energy and the Built Environment</p> <p>Technical and Institutional Expert</p> <p>Mid-term review/appraisal of the programme in South Africa, including a mission. Review of direct access financial arrangements for the programme through National Treasury; review of governance structures with all programme beneficiaries; review of all programme documentation; meetings with stakeholders, beneficiaries and the funders; review of related donor programmes and alignment issues. Drafting of the Appraisal Aide Memoire and presentation to the client.</p>
2012-2014	<p>CHOICES: Sustainable Energy Access for Improved Rural Livelihoods, South Africa</p> <p>Renewable Energy and Energy Efficiency Partnership (REEEP) and International Institute for Environment and Development (IIED)</p> <p>Project Lead and Key Expert</p> <p><i>Project Manager and Advisor</i> on the CHOICES programme in South Africa, facilitating alternative energy choices and enhanced access for South African communities. The project established a stronger link between communities and South Africa's energy policy makers as well as energy investors. A household energy survey provided a baseline of community energy knowledge and influence. Community awareness raising and capacity building; and matchmaking between energy technology developers, energy investors and target communities were subsequently facilitated to empower communities and local authorities on local energy developments.</p>
August 2012 – January 2013	<p>COP17 (Durban) Legacy Project: 'Thato ya Batho – Women adapt to Climate Change'</p> <p>South African Minister for the Dept. for International Relations & Cooperation (DIRCO)</p> <p>Project Director and lead-author</p> <p>Developed the COP 17 Legacy Book, 'Thato ya Batho – Women Adapt to Climate Change'. The book was commissioned by the South African Government as a legacy project of the UNFCCC COP 17 held in Durban, South Africa (2011). Ms Petrie led on synthesizing 34 country case studies and analysing lessons and motivations for investing in women-led adaptation in the developing world.</p> <p>This project uncovered the related investment opportunities in gender-based adaptation strategies across multiple sectors, with the primary sectors addressed being water, agriculture, health and natural resources and ecosystems.</p>
May 2011- December 2019	<p>Water Climate & Development Programme (WACDEP); and Evaluation of WACDEP Africa (2011-2016)</p> <p>Global Water Partnership (GWP) and African Ministerial Council for Water (AMCOW)</p> <p>Project lead; lead author; Reference Group (RG) Member</p> <p>Lead the evaluation of the WACDEP Africa programme (2011-2016), including a review of all programmes and projects, with broad stakeholder engagement and participatory analysis to validate the findings.</p> <p>Advisor in the RG to the development of the Strategic Framework for the water security and Climate Resilient Development of Africa Programme and on developing and implementing water and development investments in Africa. Regular advisory services on in-country, river basin-wide and continental water investment programmes and policy development. Assessment of feasible water investments needed to maintain and/or stimulate foreign and local investment in Africa's economic development. Advisory on various programme-</p>

	country climate and water strategies and investments; advisor on climate finance for these investments.
2011-2016	<p>Zambezi River Basin Risk and Vulnerability Analysis and Validation, & Zambezi Hydropower Investment Risk Assessment</p> <p>Climate and Development Knowledge Network (CDKN); and the World Bank</p> <p>Project Director and Strategic Advisor</p> <p>Led the development of: i) spatial analysis of climate risk and vulnerability to Zambezi water resources; ii) Zambezi hydropower investment risk assessment against a set of scenarios for the climate and development future of the Basin, using International Futures modelling and LEAP and WEAP models; iii) stakeholder workshops for participatory analysis and validation (of the risk assessments); iv) training and capacity building of the Southern African Power Pool (SAPP).</p>
2011 - 2014	<p>Support to the Africa Group of Negotiators (AGN)</p> <p>Climate and Development Knowledge Network (CDKN); Norwegian Embassy, South Africa</p> <p>Strategic and technical advisor to the Chair and Lead negotiators of the Africa Group of Negotiators on climate change to the UNFCCC – Development of key elements of the African Common Position on Climate Change (adaptation, climate finance and the Durban Platform). Development of a Negotiator’s Index (series of publications to support African negotiators); Lead on design and implementation of regional capacity building interventions for development of successful climate-financed adaptation proposals, focused on training intermediary institutions and trainers as well as climate negotiators: SADC Parliamentary Forum; Southern African Faith-based Communities for Environmental Change – SAFCEI; Lead negotiators and technical advisors from African countries (training and capacity building programme over 5 years). Further development of key elements of the African Common Position on Climate Change (adaptation, agriculture, and the Durban Platform). Led the strategic and technical advisory to the AGN on negotiating positions and strategies; technical backstopping at the UNFCCC negotiation platforms.</p>
2010 – 2011	<p>Gender-differentiated impacts of Climate Change in Southern Africa</p> <p>Heinrich Böll Stiftung (HBS)</p> <p>Lead Author</p> <p>The Heinrich Böll Stiftung (HBS) commissioned four country reports to investigate gender-differentiated impacts of climate change, focusing on poor, rural communities where climate impacts are already being felt. The primary aim of this study was to understand whether women and men in the region are differently impacted by climate change, and if so, in what ways. Although various studies have recorded general impacts of climate change, few have addressed gender-differentiated aspects.</p> <p>Belynda led the development of eight case studies in four southern African countries. Country studies were carried out in Botswana, Namibia, Mozambique and South Africa, with an investigation of two separate communities in each country. The project further drew on expert opinion and available and relevant literature to provide a deeper analysis on key gender implications of climate change by incorporating the findings of the four country studies into a regional report, thereby developing the synthesis report and making policy recommendations. Key recommendations related to water security included increasing access to water including storage of water.</p>
June 2010 – June 2012	<p>Strengthening Climate Finance Absorptive Capacity in Mozambique, through the Regional Climate Change Programme (RCCP) of Southern Africa</p> <p>Government of Mozambique Ministry for Environment & Coordination; Disaster Risk Management Agency; financed by DFID</p>

Programme Director; Technical advisor on Investment strategies & Climate

finance. Initially under the RCCP, the project involved analysis of the necessary institutional, governance arrangements and project development capacities: Analysing and recommending institutional and governance arrangements; Facilitating the identification of priority adaptation responses; Establishing national priorities in the context of shared river basins (e.g. Zambezi, Limpopo); Building project proposal development capacities across 6 sectors in Mozambique; Evaluating and enhancing government-/sector-developed adaptation project proposals; Policy advisory and governance support in establishing institutional capacities and arrangements for the NIE; Facilitation of training workshops, development of a Training Manual; Advisory to the MICOA Permanent Secretary and climate change and finance team; Project management.

2010-2011; 2015; July – Sept. 2017; Aug 2018

‘Green Skills in Emerging Economies: South Africa Report’; Synthesis Report; Capacity building; Updated South Africa Report/Country Study; Policy briefs

International Labour Organisation (ILO) ILO and the European Centre for the Development of Vocational Training (Cedefop)

Lead Consultant

for the South African and subsequent country synthesis report (2010-2011) on Green Skills in Emerging Economies for the ILO: synthesised lessons from ten countries; completed research gaps; made recommendations. Analysed green skills potential in South Africa and Kenya in the context of green economy opportunities and national industrial development and growth policies; drafting and finalisation of the final global participant countries synthesis report. Updated the SA country analysis in 2015 and participated in South African policy dialogues on green skills development with the Department of Labour, the Development Bank of South Africa and the Expanded Public Works Programme between February and July 2015. Updated the South African Country Study (2017). In 2018, developed a policy brief on the findings of the 2017 update, and conducted capacity development workshop on green jobs, enterprises and skills development in Kigali, Rwanda.

2010

Tsumkwe Energy Business Plan Development

Desert Research Foundation of Namibia (DRFN) / Tsumkwe Municipality (Namibia), funded by European Commission ACP EU Energy Facility and NamPower

Project Lead and Financial Structuring Expert

Developed a business plan for the efficient and effective establishment and running of the Tsumkwe Energy Hybrid System implemented by the Municipality. Delivered a tightly packaged ownership and management model, including an indicative tariff structure for the Tsumkwe Energy Hybrid System based on a comprehensive financial model, which assists in the improvement in the state of affairs in Tsumkwe and can be replicated elsewhere in Namibia and beyond.

2008 – 2012

Uganda Water Resources Sector: Vulnerability Assessment to climate change and Adaptation strategy

Government of Uganda - Department of Water Resource Management (DWRM), Ministry of Water and Environment

Project Director and Technical Advisor for the Development of a Climate Change Response Strategy for the Department for Water Resources, Uganda: Water and infrastructure Climate Change Risk and Vulnerability Impacts Assessment; development of a package of response and related policy options and institutional arrangements; assessed the vulnerability of the different components of the water resources sector to on-going and projected climate changes - supported and validated through extensive stakeholder engagement to build appropriate response strategies. Lead on design and implementation of capacity building; managed the process to develop and agree the sector’s climate response strategy with Government and other stakeholders; quantified the related costs of priority adaptations; design and facilitation of five workshops (for 250 officials)



	with DWRM and related departments (e.g. Agriculture and Energy); stakeholder-approved strategic response to climate change for the water and related sectors.
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2008-2009	<p>Facilitation, Strategic Advisor and Technical Assistance for the SADC Multi-Stakeholder Water Dialogues</p> <p>Southern African Development Community, funded by UK Department for International Development (DFID) (as part of the RCCP)</p> <p><i>Co-facilitator of the second, third and fourth Multi-Stakeholder Dialogues, hosted by SADC Water Division</i></p> <p>The Dialogues were aimed at supporting climate resilience building in the SADC region, through water sector-related initiatives, which became a stated policy objective in the region</p> <p>Tasks included Facilitation and thematic presentations; development of Policy outputs and Dialogue Outcome Statements; development of Briefing Papers</p>
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August 2007- July 2012	<p>Regional Climate Change Programme (RCCP) - Southern Africa</p> <p>UK Department for International Development (DFID); Swedish International Development Agency (SIDA)</p> <p><i>Programme Director</i></p> <p>The 5-year RCCP had the purpose of <i>enabling transboundary adaptation to climate change, with equitable access to finance, in southern Africa</i>. Led the feasibility study, for design and implementation of the RCCP in the Southern Africa Development Community (SADC) region, which resulted in the four programme outputs: i) A scientific evidence base for change in southern Africa; ii) Programmatic adaptation strategies for energy, water, health and food security in southern Africa; iii) Climate Finance solutions for southern Africa, and; iv) transboundary networks for strengthening Africa's voice in relevant multilateral platforms.</p> <p>Under outputs i) and ii), the RCCP produced numerous research papers and briefs (transboundary water, climate change and energy, climate change and human health and food security), a Knowledge for Adaptation Series, a series of briefs for Policy Makers and training and capacity building materials. Output iii) included an in-depth paper on climate finance for southern Africa, capacity building of government stakeholders in developing successful project proposals for the multilateral climate funds, and investment solutions for climate compatible water and energy investments. Developed 9 bankable projects for the Adaptation Fund across 4 countries. Under output iv), the African Common Position on Climate Change was developed through support to the Africa Group of Negotiators (AGN) in negotiations under the UNFCCC, and climate change was brought into the SADC regional agenda for water, through SADC Water and in partnership with the Global Water Partnership, Southern Africa.</p>
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2007-2011	<p>George Mobility Strategy</p> <p>Ninham Shand/Aurecon</p> <p><i>Project lead on the socio-economic survey and social impact assessment</i></p> <p>The project analysed the potential socio-economic impacts of a proposed improved public transport system in George, South Africa, and developed a diversified skills development plan that could be enabled through improved transport logistics in the area. Activities: design and implementation of a household level survey in the George area and analysis of survey outcomes; analysis of the socio-economic impacts of the proposed improved public transport systems and skills development centre in George; development of a diversified skills development plan that could be enabled through improved transport logistics in the area and a social impact assessment of the potential impacts of improved transport and skills development in the area.</p>
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2007-2010	Majeng Land Restitution Process Business Plan; 2010 Community Strengthening Programme
	Majeng Communal Property Association (MCPA) on behalf of the Regional Land Claims Commission: Free State and Northern Cape
	Project lead
	Development of the Majeng Land Restitution Process Business and Land-use Plan and Community Strengthening Programme in the Northern Cape, South Africa, for the Department of Land Affairs. The project included a household survey to assess community socio-economic and livelihood needs, land surveys to define boundaries of the land restored to the Majeng Community, establishment and capacity building of the Majeng Community Property Association, commissioning a minerals assessment of the land, a feasibility study on economic viability of various land uses, analysing water security for land uses identified and a human settlement plan.
2007 - 2008	Green energy plant, KwaZulu-Natal, South Africa (CDM Project)
	Associated Energy Services (AES)
	Project Lead and GHG Accounting Expert
	Conducted the CDM component of the plant, developing the methodology, quantifying carbon credits, analysing and communicating community and local economic development co-benefits, and registering the project with South Africa's Designated Operating Entity and the UNFCCC.
2006 - 2008	Western Cape Climate Change Strategy and Action Plan
	Department of Environmental Affairs & Development Planning (Western Cape)
	Project director & Strategy Advisor in conducting the multi-disciplinary research for, and development of, a comprehensive climate change strategy for the Western Cape through desk research, participatory analysis, economic assessments, scientific and legal assessments. Developed climate finance projects and proposals with stakeholders and identified the key areas of climate vulnerability in the Western Cape. Presented the strategy as keynote speaker at a Climate Change Conference in Cape Town in 2008 and facilitated the process of Western Cape Cabinet approval of the strategy and action plan.
April 2005 – March 2008	Integrated Southern Africa Business Advisory (INSABA): Renewable Energy for Productive Use in Southern Africa
	INWENT (GIZ), funded by the European Commission
	Project Lead
	Identified entrepreneurs, supported them in developing their business plans, conducted their feasibility studies and conducted pilots in reaching the project goals. The work further entailed identifying business opportunities, doing feasibility and market analyses, energy finance and project development, the development and review of four (4) energy-related concept notes. Capacity development was at the heart of this project.
2005 - 2006	Solar water heating market and finance study
	InWent / City of Cape Town, funded by German Federal Government
	Establishing a SWH working group for region with key stakeholder inclusion. Devising and implementing a communications strategy and plan for public awareness and education purposes. Conducting a market survey of the installed base of SWH systems in the Western Cape to establish technical and support issues, public perception and finance issues. Assessing appropriate finance mechanisms and devising an incentive scheme. Designing financing schemes in conjunction with the commercial and development financial services industry, among others.
2004 - 2006	Blue Crane Integrated Energy Assessment and Planning

Blue Crane Development Agency, Eastern Cape, South Africa

Project Lead and RE Expert

Developed of an integrated energy development strategy and action plan for the region. Participated in the pre-feasibility on the biodiesel potential in the region with BCDA's involvement and introduced the concept and project to the BCDA.

2003 - 2004 Support for Development of South Africa Wind Energy Programme (SAWEP) Phase 1
UNDP (GEF funded)

Renewable Energy and Governance Expert

Contributed as part of a multinational and multi-disciplinary team to the UNDP programme for identifying barriers to establishing a wind energy industry in South Africa and to recommend an institutional & policy framework to address these. Specifically, investigated the role for differentiated and blended finance approaches to fund the incremental costs of supplying electricity supplied from renewable energy sources. Analysed the green energy market, with specific attention to quantifying the potential for renewable energy uptake in South Africa. Analysed existing institutional arrangements and policy frameworks for enabling the development of a local wind energy industry, and made recommendations for advancing these.

2003 - present Ibhubesi Natural Gas Development Project
SunBird Energy Ltd and Forest Oil International

Project Lead

Provision of ongoing socioeconomic development and analysis support to the development of the Ibhubesi gas fields located off the west coast of South Africa. Conducted market and feasibility analysis (market uptake and competitive energy price analysis); conducted three socio-economic analyses and detailed social impact assessments across project affected areas in the Northern and Western Cape, including household level surveys within communities to ascertain energy and community development needs and potential impacts of enhanced energy service delivery; developed the Socio-Economic Development Plan, and the Labour, Skills and Employment Equity Plans for the gas field project; managed the process of ensuring compliance of the exploration companies with South African business laws and international regulations.

Publications and Conference Papers (selected)

Books

Petrie, B. in preparation. Climate Change in Africa, HSRC Press [2 chapters peer reviewed, accepted]
Petrie B, Midgley, S, Chapman, A, Hope, E. (2012). *Thato ya Batho – Women Adapt to Climate Change*. Written and produced for the Department of International Relations and Cooperation by OneWorld Sustainable Investments, Cape Town, South Africa.

Chapters in Books

Petrie, B. (2016). *Africa's choice: Business-as-usual or a green agenda?* OECD Forum (31 May – 1 June 2016). Online. Available: <http://www.oecd.org/forum/oecdyearbook/africa-business-as-usual-greenagenda.html>
Petrie, B., Semmling, E. (2015). Green Economy Perspectives for SOUTH AFRICA in *The Rise of the Green Economy - A New Paradigm for the Developing World?* Edited by Carius, et al. © 2015 oekom, München

Research Reports, Training Manuals and other publications

Petrie, B. 2019. *Financing Transboundary Water Investments – From Public Good To Shared Interest*. OneWorld Sustainable Investments. Cape Town, South Africa. Available:



<https://oneworldgroup.co.za/financing-transboundary-water-investments-from-public-good-to-shared-interest/>

- Petrie, B., Rawlins, J., Tsilik, P., Chapman, A., Kalaba, J. (2018). *Landscape Vulnerability Decision Support Framework*. Transforming Landscapes for Resilience and Development in Northern (TRALARD-Zam). OneWorld Sustainable Investments. Cape Town, South Africa.
- Tänzler, Dennis; Annica Cochu, Rainer Agster, **Belynda Petrie**, Cristobal Reveco, and Bedoshruiti Sadhukhan 2017: Challenges and opportunities for urban climate finance. Lessons learned from eThekweni, Santiago de Chile and Chennai. Bonn/Eschborn: GIZ. Available online: <https://www.adelphi.de/en/publication/challenges-and-opportunities-urban-climate-finance>
- Petrie B., Petrik, D., Martin, L., Chapman, A., Davies, R., Blignaut, J.N. (2016). *Strengthening Climate Resilience in the Kafue sub-Basin (SCRiKA) Project: Training Manual*. OneWorld Sustainable Investments. Cape Town, South Africa. Available from: http://oneworldgroup.co.za/wp-content/uploads/2017/07/SCRiKA.TM_25.10.pdf
- Petrie B., Petrik, D., Martin, L., Chapman, A., Davies, R., Blignaut, J.N. (2016). *Strengthening Climate Resilience in the Kafue Sub-basin (SCRiKA) Project: Final Report*. OneWorld Sustainable Investments. Cape Town, South Africa. Available from: http://oneworldgroup.co.za/wp-content/uploads/2017/07/SCRiKA-RV-Final-Report_FINAL-6-October-2016-2.pdf
- Petrie, B., Ellis, C., Pengelly, C., Petrik, D., Martin, L. (2014). 'Enhancing Readiness for Climate Finance: Experiences from Eastern and Southern Africa'. For UNDP Regional Service Centre for Africa. OneWorld Sustainable Investments, Cape Town. Available from: https://oneworldgroup.co.za/wp-content/uploads/2014/12/UNDP.ClimFin.main_dec15.pdf

Peer-reviewed Research-based Reports

- Petrie, B. (2017). 'Cooperative Water Governance for Climate Resilience: Are Institutional Arrangements in Southern Africa fit for purpose?' Occasional Paper 268. South African Institute of International Affairs (SAIIA), Johannesburg, South Africa. Available from: <http://www.saiia.org.za/occasional-papers/1236-cooperative-water-governance-for-climate-resilience-are-institutional-arrangements-in-southern-africa-fit-for-purpose> © SAIIA, July 2017
- Petrie, B. (2016). Chapter 5. Alternative Pathways for Africa: Business as usual or a Green Agenda? In Economic Report on Africa 2016: Greening Africa's Industrialization. United Nations Economic Commission for Africa (UNECA). Retrieved 20 February, 2017 from <http://www.un.org/en/africa/osaa/pdf/pubs/2016era-unece.pdf>
- Tanzler, D., Cochu, A., Agster, R., **Petrie, B.**, Reveco, C., Sadukhan, B. (2017). Chapter 5. eThekweni (South Africa). 'Cities fit for Climate Change: Challenges and Opportunities for Urban Climate Finance – Lessons Learned from eThekweni, Santiago de Chile and Chennai'. For the 'Cities fit for Climate Change' project, BMUB. GIZ, Bonn and Eschborn, Germany. See https://www.adelphi.de/en/system/files/mediathek/bilder/GIZ_Urban%20Climate%20Finance.pdf
- Petrie, B., Ellis, C., Pengelly, C., and Martin, L. in press. (2015). *Risk and Vulnerability in the Limpopo River Basin: Securing the Future of the Limpopo River Basin System - Investment Strategy*. For the Resilience in the Limpopo River Program (RESILIM), USAID. OneWorld Sustainable Investments, Cape Town, South Africa.
- Petrie, B., Chapman, A., Midgley, A., Parker, R. (2014). Risk, Vulnerability & Resilience in the Limpopo River Basin: Climate change, water and biodiversity – a synthesis. For the USAID Southern Africa
- 'Resilience in the Limpopo River Basin' (RESILIM) Program. OneWorld Sustainable Investments, Cape Town, South Africa. Available from: <https://www.climatelinks.org/resources/risk-vulnerabilityand-resilience-limpopo-river-basin>
- Petrie, B. (2015). 'Advancing Africa's Position on Global Climate Finance.' South African Institute for International Affairs (SAIIA). Governance of Africa's Resources Programme, Policy Briefing 137. Available online at: <http://www.saiia.org.za/policy-briefings/844-advancing-africa-s-position-onglobal-climate-finance/file> © SAIIA, 2015
- Petrie, B. (2014). *South Africa: A case for Biomass?* International Institute for Environment and Development, London. Available from: <http://pubs.iied.org/16045IIED>

- Morck Jensen, K., **Petrie B.**, Baadsgaard Lange, R. (2013). Staying Afloat: River Basin Organisations in Transboundary Waters. Policy Brief. DIIS, Copenhagen. Available: http://pure.diis.dk/ws/files/85208/PB2013_Staying_afloat_kjm_web.pdf
- Morck Jensen, K., **Petrie, B.**, van der Sluys, C., Baadsgaard Lange, R. (2013). Building commitment to climate action in the Mekong and Zambezi River Basins. DIIS, Copenhagen
- Petrie, B. (2013). Green jobs: Access to clean energy can create employment in South Africa. IIED, London. Available: <http://pubs.iied.org/pdfs/17184IIED.pdf>
- Petrie, B., Macqueen, D. (2013). South African Biomass Energy: little heeded but much needed. IIED, London.
- Petrie, B. (2012). The Implications of Climate Change for African Stability. OneWorld Sustainable Investments, Cape Town
- Petrie, B., Ellis, C., Pengelly, C., Petrik, D., Martin, L. (2014). 'Readiness for Climate Finance - Experiences from Eastern and Southern Africa'. For UNDP Regional Service Centre Africa. OneWorld Sustainable Investments, Cape Town, South Africa.
- Petrie, B., Chapman, A., Midgley, A, Parker, R. (2014). 'Risk and Vulnerability in the Limpopo River Basin, A Synthesis Report.' For the Resilience in the Limpopo River Program (RESILIM), USAID. OneWorld Sustainable Investments, Cape Town, South Africa.
- Petrie, B., Chapman, A., Midgley, S., Martin, L. in press. (2014). What does climate change mean in the Limpopo River basin: political, socio-economic and biophysical perspectives? For the Resilience in the Limpopo River Program (RESILIM), USAID. OneWorld Sustainable Investments, Cape Town, South Africa.
- Petrie, B. 2010. 'Low Carbon Economic Growth in South Africa – from Coal to Green Energy?' CEDEFOP and ILO Green Skills, Geneva, 2010. Background country study South Africa report: Available: http://www.ilo.org/wcmsp5/groups/public/---ed_emp/---ifp_skills/documents/publication/wcms_142475.pdf
- Petrie, B. 2010. Gender and Climate change: Regional Report. Heinrich Boll Stiftung. Available: <https://za.boell.org/web/climate-change-522.html>
- Petrie, B. 2014. Gender and Climate Change: Regional Summary. Heinrich Boll Stiftung. Executive Summary: https://za.boell.org/sites/default/files/downloads/Regional_Summary.pdf

Invited and Keynote addresses and conference papers

- Petrie, B. (2018). Skills for Green Jobs in South Africa: Updated Country Report. Presentation for ILO Training Course "Equipping vulnerable women and youth in Rwanda with skills for green jobs". Kigali, Rwanda, 23 - 27 July, 2018.
- Petrie, B. (2018). Policy for skills development in the green transition. Presentation for ILO Training Course "Equipping vulnerable women and youth in Rwanda with skills for green jobs". Kigali, Rwanda, 26 July, 2018.
- Petrie, B. (2018). Climate finance: Opportunities for Enhanced Local Action. Presentation at IKI V-LED Workshop: Localising Climate Finance and Action. Irene, South Africa, 23-25 April, 2018.
- Petrie, B. (2017). Climate Finance in South Africa. Presentation to the Parliament of Republic of South Africa. Cape Town, 28 November 2017.
- Petrie, B. (2016). Climate Finance in Transboundary Water Contexts. GWP Side Event, COP 22, Marrakech, November 2016.
- Petrie, B. (2016). Toward a Legislative Agenda for enhancing Nigeria's climate resilience and governance. Address to the Nigerian National Assembly, Abuja, June 2016.
- Petrie, B. (2016). Green Industrialisation for Africa: Business as Usual or a Green Agenda? UNECA Finance Ministers Conference, Addis Ababa, May 2016.
- Petrie, B., Moleele, N. (2015). 'What is Biodiversity Information for? Informing Investments in the Limpopo River Basin'. Africa Rising Conference hosted by SANBI, Cape Town, May 2015.
- Petrie, B. (2015). 'Staying Afloat? A multi-stakeholder approach to water management. Water for Money Seminar: WBCSD. Johannesburg, March 2015.
- Petrie, B. (2015). 'Skills for Green Jobs'. ILO/DBSA Green Skills Symposium. Johannesburg, March 2015
- Petrie, B. (2014). 'Mobilising the private sector for green growth and climate resilient agriculture'. Clim-Dev Africa, UNECA, Marrakech, October 2014. Available:

<http://www.climdevafrica.org/sites/default/files/ccda4documents/2.2%20Belynda%20Petrie.pdf>

- Petrie, B. (2014). 'Inclusive Green Growth in Africa: Water stressed food and energy'. Clim-Dev Africa, UNECA, Marrakech, October 2014
- Petrie, B. (2014). 'Staying Afloat? Water Governance and Shifting Consumption Patterns.' World Water Week, Stockholm, 3rd September 2014
- Petrie, B. (2014). 'Socio economic and investment barriers and opportunities for wind energy investors in South Africa'. South Africa Wind Energy Investment Summit, April 2014. Wind Energy Update, UK.
- Petrie, B., Saaf E.J. (2012). Transboundary river basin management can contribute significantly to peace and prosperity: Jordan, Indus, Zambezi, Nile and Limpopo River Basins, International Transboundary Water Governance Conference, South Africa, November 2012
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