

Curriculum Vitae: Belynda Petrie

Nationality	South African
Education	<p>PhD Candidate, University of Cape Town (2017): ‘Toward Cooperative Governance for Water Security in Africa’</p> <p>BA Law (1986) University of Cape Town</p> <p>BA (Honours), Clinical Psychology (1992) University of South Africa</p>
Languages	English (fluent), Afrikaans (fluent), French (fair)
Membership of professional bodies	<ul style="list-style-type: none"> • 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.
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
Relevant professional experience	
November 2019- January 2020	<p>Green Climate Fund (GCF) Capacity needs assessment in the areas of Environmental and Social Safeguards, Gender Equality and Indigenous Peoples</p> <p>Project Lead</p> <p>Currently leading a project for the GCF Secretariat in achieving its commitment to providing technical support and continuing to develop the technical competencies of Accredited Entities (AEs) and GCF staff. This support is targeted towards ensuring that the GCF requirements, which include the Environmental and Social Safeguards (ESS) policy, Gender Policy and Indigenous Peoples Policy, are fulfilled and maintained throughout the duration of a project lifecycle (from preparation through to implementation). For this assignment, the training needs assessment will inform recommendations for the GCF on how to improve and build capacity within AEs and amongst GCF staff. These recommendations will feed into the development of a training program by the GCF, which will be the primary focus in contributing to the overall technical capacity development of the Fund. The current assignment will therefore lay the groundwork for this upcoming capacity building phase. Tasks include developing an online survey questionnaire aimed at both GCF</p>

staff and AEs, conducting interviews and focus group discussions to verify and validate survey findings and writing reports on recommendations for the GCF from these findings.

June 2019-
August 2020

Technical Advisory Services on the Piloting Activities for the Preparation of Country Programmes and Related Processes for the Green Climate Fund

Green Climate Fund, under contract to OPM

Project Lead – Africa region

Technical advisory services to enhance the quality, as well as ownership, of funding proposals generated by countries attempting to access the GCF, with a view to ensure that climate finance being provided has maximum impact. Specifically assist strategically target countries in strengthening their proposals in terms of: the level of concessionality; prioritization and coherence of activities into programmes; aiming for a paradigm shift away from business as usual; project climate rationale; impact pathways, and; approaches to resolving barriers and risks. Deliver these objectives through an evidence based, analytical approach, that is country driven and that delivers capacity co benefits, such as institutional capacities to deliver high quality and high impact climate finance projects.

September –
December
2019

Case Study: The South African Renewable Energy Independent Power Producer 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

OneWorld was contracted to update and summarise 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.

July 2018 -
current

“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: Project lead, analysis of optimal energy services and resultant socio-economic co-benefits.

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.

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 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.

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/ 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.

March – June
2017

Renewable Energy Study for Value Chain Cluster Development in iLembe, KwaZulu Natal, South Africa

UNIDO/SECO

Ms Petrie contributed to a multi-disciplinary team mobilised by UNIDO, as **renewable energy lead**, 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.

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. Design of dialogues, research and facilitation of plausible pathways and a social compact for achieving Vision 2050. Lead on co-creation of the pathways for change and validation through stakeholder engagement.

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



Project Lead; Climate, Policy Expert

Led a team to develop guidelines and a tool for screening climate change in sectoral policies, plans and strategies; situational analysis on sector policies, plans and strategies to inform the development of the guidelines and tool. Focus group discussions and sector workshops were used to test and validate the tool and guidelines. Development of a user guide and training manual and Train the Trainers workshop.

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)

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.

January 2018
– July 2018

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

Ministry of National Development Planning

Project Leader and Climate Response Expert

Socioeconomic assessment, surface and groundwater resource assessment and climate risk and vulnerability assessment in order to identify responsive and feasible investments in climate resilience, enhanced water resource management and improved disaster risk reduction; lead on participatory analysis process and fieldwork, validation process e.g. of risk profiles and opportunity assessments. Identification of priority actions and investment projects, EWS and disaster risk reduction approaches. **Development of concept notes for prioritised actions based on district/provincial prioritisation and hotspot analysis** (GIS based spatial mapping). Integration of fieldwork, finalisation of risk profiles, economic impacts and potential projects for development, by district. Coordination and facilitation of workshops for the various districts to review identified gaps. Development of climate investment solutions. Presentation and validation of findings with stakeholders and PPCR team.

July 2012-
May 2017

Resilience in the Limpopo River Basin Programme (RESILIM)

USAID/ Chemonics

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**



	<p><i>Resilience in the Basin. 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.</i></p>
July 2017 – July 2018	<p>Learning Partner for the Pilot Program on Climate Resilience (PPCR) in the Climate Investment Funds (CIF)</p> <p>OneWorld, in association with Oxford Policy Management (OPM) / World Bank</p> <p>Team lead, Climate Change Adaptation, and Climate Finance Expert</p> <p>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.</p>
2010-2011; 2015; July – Sept. 2017; Aug 2018	<p>‘Green Skills in Emerging Economies: South Africa Report’; Synthesis Report; Capacity building; Updated South Africa Report/Country Study; Policy briefs</p> <p>International Labour Organisation (ILO)</p> <p>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. <i>2010 Country study available here</i>. The 2017 updated country study fed into Chapter 5 of “World Employment and Social Outlook 2018: Greening with jobs”. International Labour Office – Geneva: ILO, 2018. Available here.</p>
Sep - Dec 2017	<p>Northern Zambia: 1) Landscape Vulnerability Risk Assessment Baseline; and 2) Development of a Decision Support Tool</p> <p>Zambian National Climate Change Secretariat (NCCS)/Zambian PPCR Implementation Unit in Ministry of National Development Planning / World Bank – TRALARD-Zam under the Pilot Program for Climate Resilience (PPCR)</p> <p>Project Lead and Scenarios Development Expert; Participatory Rural Appraisal (PRA) Facilitator; Climate change and R&V response expert; Lead author</p> <p>Risk and vulnerability mapping and baseline assessment; development of a climate vulnerability decision-support framework (tool).</p> <p>Project lead and lead facilitator to co-develop and test a decision support framework (tool) through participatory analysis / PRA. 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.</p>
2014 - 2017	<p>Practitioners’ Dialogue on Climate Investments (PDCI)</p> <p>German Federal Ministry for Economic Cooperation & Development/ 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/). The PDCI facilitated dialogue between senior policy-makers in developing countries, and professionals in business and the</p>

financial sector, to help secure participation of the private and financial sectors in climate-resilient and low-emission development.

Activities provided: 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.

Nov-Dec 2016 Support to & Formulation of DEA Energy Partnership Programme, Phase 2 (2017-2020)

Danish Energy Agency (DEA)/Greg Moran & Assoc.

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 –
September
2016

Strengthening Climate Resilience in the Kafue Sub-Basin Project (SCRKA)

Government of Zambia: National Climate Change Secretariat (NCCS) in Ministry for Development. USAID

Project Director, Water and Climate Finance Expert

Project lead: 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; 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 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. Lead author on the final project report.

2011-2014;
2017

Water Climate & Development Programme (WACDEP); and Evaluation of WACDEP Africa (2011-2016)

Global Water Partnership (GWP) and African Ministerial Council for Water (AMCOW)

Project lead; lead author; Reference Group (RG) Member

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. 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-country climate and water strategies and investments; advisor on climate finance for these investments.**

2016 - 2017

Study on Urban Climate Finance for 'Cities Fit for Climate Change': South Africa: eThekweni (Durban)



GIZ for 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); Building 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>

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.

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.

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	<p>Political Economy of Climate-Relevant Change Policies: The Case of Renewable Energy in South Africa (IDS Evidence Report 128)</p> <p>Policy Research in International Services and Manufacturing (PRISM) / Institute of Development Studies (IDS)</p> <p>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.</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 Manager and Advisor 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>
2013- 2014	<p>Climate Finance Readiness (CFR) Project in Southern and Eastern Africa</p> <p>United Nations Development Program (UNDP)</p> <p>Project lead and climate finance expert</p> <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>
2013	<p>Renewable Energy Programme for South Africa</p> <p>DANIDA</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 programme implementation design and on the institutional arrangements for ongoing programme management and governance.</p>
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>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</p>

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.

2012	<p>COP17 (Durban) Legacy Project: ‘Thato ya Batho – Women adapt to Climate Change’ South African Minister for the Dept. for International Relations & Cooperation (DIRCO)</p> <p>Project Director and lead-author of 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>
2011-2016	<p>Zambezi River Basin Risk and Vulnerability Analysis and Validation, & Zambezi Hydropower Investment Risk Assessment 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) 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, climate finance 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>
2010-2012	<p>Strengthening Climate Finance Absorptive Capacity in Mozambique, through the Regional Climate Change Programme (RCCP) of Southern Africa Government of Mozambique Ministry for Environment & Coordination; Disaster Risk Management Agency; financed by DFID</p> <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,</p>

	development of a Training Manual; Advisory to the MICOA Permanent Secretary and climate change and finance team; Project management.
2010	<p>Tsumkwe Energy Business Plan Development</p> <p>Desert Research Foundation of Namibia (DRFN) / Tsumkwe Municipality (Namibia)</p> <p>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.</p>
2008-2009	<p>Facilitation, Strategic Advisor and Technical Assistance for the SADC Multi-Stakeholder Water Dialogues</p> <p>UK Department for International Development (DFID) (as part of the RCCP)</p> <p>Co-facilitator of the second, third and fourth Multi-Stakeholder Dialogues, hosted by SADC Water Division.</p>
2007-2012	<p>Regional Climate Change Programme (RCCP) - Southern Africa</p> <p>UK Department for International Development (DFID); Swedish International Development Agency (SIDA)</p> <p>Programme Director</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. 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. 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>
2007 - 2008	<p>Green energy plant, KwaZulu-Natal, South Africa (CDM Project)</p> <p>Associated Energy Services (AES)</p> <p>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.</p>
2006 - 2008	<p>Western Cape Climate Change Strategy and Action Plan</p> <p>Department of Environmental Affairs & Development Planning (Western Cape)</p> <p>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</p>

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.

2005 - 2008 Integrated Southern Africa Business Advisory (INSABA): Renewable Energy for Productive Use in Southern Africa

European Commission/ INWENT (GIZ)

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. Capacity development was at the heart of this project.

2005 - 2006 Solar water heating market and finance study

InWent / City of Cape Town / 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

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.
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Chapters in Books

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