

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	Senior Research Associate, South African Institute for International Affairs (SAIIA) Climate Disclosure Standards Board (CDSB) Water Working Group Member Stakeholder Advisory Group Member for the global Water Resilience Accounting Framework (WRAF) 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/ Advisory Committees/ Reference Groups	Contributing author to the IPCC AR6 Report, specifically on the Governance chapter for Africa Board Member, VulAmanz (Water Purification Systems) Board Member, Alliance for Global Water Adaptation (AGWA) Member of the Scientific Programme Committee (SPC) for the World Water Week in Stockholm; Chair for COVID, Water and Climate Change Advisory Board Member, UNEP-DHI Centre on Water and Environment Advisory Board Member, CDP Reference Group Member for the Global Water Partnership, Water, Climate and Development Programme

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, Zambia
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	Angola, Bangladesh, Caribbean, China, Egypt, India, Iraq, Philippines, Seychelles, Mauritius, Morocco, Mozambique, Rwanda, Southern Africa wide, Tajikistan, Tanzania, Uganda, Zambia

Relevant Professional Experience

January – June 2023	<p>Climate Landscape Analysis for Children (Lesotho) United Nations Children's Fund (UNICEF)</p> <p>Team Lead, Climate Change, Policy and Institutional Review Expert</p> <p>Production of a Climate landscape analysis for children (CLAC) for Lesotho; providing direction and recommendations on how to improve inclusion of climate, energy, and environment (CEE) actions into country office (CO) programming.</p> <p>Develop a climate finance strategy and provide UNICEF Lesotho with recommendations and identification of actionable opportunities to integrate climate, environment, and energy development issues across UNICEF programmes and partnerships.</p>
January 2023 – January 2024	<p>Develop a Groundwater Strategy for the Limpopo River Basin (LRB) SADC Groundwater Management Institute, with funding support from the International Development Agency (IDA)</p> <p>Team leader; Transboundary water resource governance & Strategy development expert; Stakeholder engagement expert</p> <p>Providing technical assistance for the development of a robust groundwater management plan to be achieved through, amongst others i) guiding joint groundwater resources development and management, ii) harmonising current and planned groundwater initiatives with national plans of the LRB riparian states, iii) prioritising groundwater-related projects, and iv) capturing the multi-disciplinary and multisectoral approach to management and development of national and transboundary groundwater resources in the LRB.</p> <p>Tasks include Development of a groundwater strategy, project oversight, and high level stakeholder engagement and review.</p>
January 2023 – October 2023	<p>Green Hydrogen Finance Landscape & Accelerator Deutsche Gesellschaft für Internationale Zusammenarbeit – GIZ</p> <p>Team Leader</p> <p>The project will provide a comprehensive scoping report of the South African Green Hydrogen (GH₂) Finance Landscape (GHL) as well as a concept note for a Green Hydrogen Accelerator (GHA) for South Africa – with a particular focus on improved access to early-stage finance.</p> <p>Responsible for providing the strategy and plan for mapping and conducting the financial landscape and offtake mechanisms for Green Hydrogen (GH) in South Africa. This included planning and reviewing of research on offtake mechanisms, mapping and analysis of GH funding mechanisms, stakeholder mapping and engagement, and developing GH accelerator concept note.</p>



November 2022 – March 2023	<p>Mid Term Review (MTR) of the DBSA/SANBI GEF Project: ‘Unlocking Biodiversity Benefits Through Development Finance in Critical Catchments’</p> <p>Development Bank of Southern Africa (DBSA) and South African National Biodiversity Institute (SANBI), funded by the Global Environment Facility (GEF)</p> <p>Project Lead, Lead Evaluator, Natural Resource Management and Governance specialist</p> <p>Development of the independent Mid-Term Review (MTR) of a DBSA/SANBI project that aims to increase water security in South Africa through improving ecological infrastructure and rehabilitation to natural assets using two demonstration catchments in South Africa. The MTR reviewed the project’s progress to determine whether the project will provide improved outcomes for communities through enhanced ecological infrastructure and biodiversity as a result of policy shifts; and whether the project is showing evidence of progress towards achieving this.</p> <p>Responsibilities include drafting and finalising the MTR report and producing a close-out and lesson learnt report, through stakeholder engagement, workshops and document review.</p>
November 2022- December 2022	<p>Establishment of Three Groundwater Management National Focal Groups (NFGs) and Capacity Building of Eight NFGs In SADC Member States</p> <p>SADC Groundwater Management Institute (SADC-GMI)</p> <p>Project Lead; Lead Facilitator</p> <p>Establishment of three new groundwater management National Focal Groups (NFGs) in three Member States and to build the capacity of eight NFGs in eight SADC Member States to operationalise them in achieving their mandate.</p> <p>Tasks include: Lead on updating the generic terms of reference for the NFGs, identification of 3 countries for the establishment of the NFGs, and establishment of the groups, as well identification of training needs and subsequent training of the NFG members.</p>
November 2022- February 2023	<p>UNESCO-UNEVOC TVET Leadership Programme facilitation and contribution of additional learning resources</p> <p>International Centre for Technical and Vocational Education and Training of the United Nations Educational, Scientific and Cultural Organization (UNESCO-UNEVOC)</p> <p>Project Lead; Green Transition Expert; and Lead Facilitator</p> <p>The project partnered with UNESCO-UNEVOC to deliver a modular training programme for TVET champions and leaders globally to transition to the green economy, with the goal to build capacity of TVET leaders and managers in creating a new theory of change to prepare TVET systems and institutions for the green transition.</p> <p>Tasks include: Adapting a training facilitation approach that supported active learning and deeper knowledge sharing on the learning resources developed for the 2022-2023 TVET leadership programme; facilitating and moderating the webinars, facilitating interactive and reflective learning activities (group work, individual reflections and assignments), and stimulating a highly engaging and interactive approach for the programme; contributing additional learning resources.</p>
October 2022- April 2023	<p>Support for Facilitation and Events Management for Energy Dialogues</p> <p>Presidential Climate Commission (PCC) /National Economic Development & Labour Council (NEDLAC), South Africa</p> <p>Project Lead; Lead Facilitator</p> <p>The PCC is developing a set of recommendations to the government regarding critical decisions – particularly on energy policy and governance - that need to be made to accelerate decarbonisation in energy systems and grow jobs in new low-carbon energy industries, in ways that promote a socially just transition.</p>

	Supported the process through organising and facilitating dialogues to bring together decision-makers and build consensus between the social partners involved in the energy transition around these key decisions. Other tasks include stakeholder dialogue facilitation and consolidating and the combined stakeholder perspectives and feedback to inform and guide the recommendations produced.
October 2022-May 2023	<p>Climate, energy, and environment landscape analysis for children in South Africa United Nations Children's Fund (UNICEF)</p> <p>Project Lead; Climate Change Expert</p> <p>Development of a Climate Landscape Analysis for Children (CLAC) for South Africa; providing direction and recommendations on how to improve inclusion of climate, energy, and environment (CEE) actions into country office (CO) programming.</p> <p>Tasks include: Lead on development of a CEE baseline for children; stakeholder engagement lead; Identify and evaluate potential entry points for UNICEF engagement with CEE; Provide UNICEF South Africa with recommendations and identification of actionable opportunities to integrate CEE development issues across UNICEF programmes and partnerships; lead author.</p>
September 2022 – February 2023	<p>Developing a State of the Marine Environment Report (SOMER) of the Benguela Current Large Marine Ecosystem (BCLME) Benguela Current Commission (BCC)</p> <p>Project Lead; Climate Change Expert</p> <p>Development of the second State of the Marine Environment Report (SOMER) for the BCLME, based on reviewing and assessing the Drivers, Pressures, State, Impacts and Responses (DPSIR Framework) of the BCLME with a focus on climate change, along with recommendations for strengthening the response of the BCLME to climate change, through the BCC.</p> <p>Tasks include: lead on document and literature review, indicator review and assessment using the DPSIR Framework; stakeholder engagement to validate the results from these activities, followed by drafting of the second BCLME SOMER with climate change included as a cross-cutting theme.</p>
September 2022 – November 2023	<p>Aquifer mapping technologies for Zambia Climate Technology Centre and Network (CTCN) in collaboration with the United Nations Industrial Development Organization (UNIDO)</p> <p>International Expert: Water Management Expert & Team Leader</p> <p>Providing technical assistance for the development of a robust groundwater management plan to support climate change adaptation strategies in Zambia – including the identification of water-saving technologies and the development of water balance and accounting studies, as well as 3D surface and underground mapping for a specific region.</p> <p>Tasks include: developing a list of criteria for the TA, identifying areas for implementation, developing a water balance accounting strategy and aquifer map, conducting knowledge transfer, stakeholder consultation, identifying water-saving technologies, and drafting the water management plan.</p>
2022	<p>Development of an Africa-wide Groundwater Strategic Plan African Ministerial Council for Water (AMCOW)</p> <p>Project Lead, Integrated/Transboundary Water Resource Management & Strategy Development Expert</p> <p>Developing a Strategic Programme for Water Security and Resilience in Africa, addressing aspects of Integrated Water Resources Management (IWRM) concerning groundwater and transboundary aquifer management.</p> <p>Task include establishing strategic guidelines, knowledge-sharing platforms and peer learning exchange platforms, building on AMCOW's partnerships for implementation. Lead author.</p>

July 2022 – March 2023	<p>Mapping of International Climate Finance Sources and Opportunities for the Public and Private Sector in Bangladesh (GIZ)</p> <p>Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)</p> <p>Project Co-ordinator</p> <p>The project aims to develop a comprehensive database of private and public international climate finance sources for Bangladesh. The database will form the basis of a web-based, searchable system, for staff of the International Climate Finance Cell in the Ministry of Finance.</p> <p>Responsible for undertaking a climate finance baseline analysis and stakeholder engagement exercise to develop the mapping tool, and delivering capacity-building support to Ministry staff to ensure the long-term utility of the database.</p>
August 2022 – Current	<p>Climate Landscape Analysis for Children and UNICEF Rwanda Action Plan 2022-2024</p> <p>UNICEF</p> <p>Team Lead, Climate Change, Policy and Institutional Review Expert</p> <p>Conducting a Climate Landscape Analysis for Children (CLAC) and Action Plan, examining the baseline situation of climate, energy and environment-related issues affecting children and how they relate to UNICEF’s priorities. Provided recommendations on how UNICEF Rwanda could further incorporate and strengthen work on related issues in its current country programme and make recommendations for the new Country Programme Document 2024-2029.</p>
Nov 2021-2022	<p>Dec Updating the AU-AMCOW Strategic Framework on Water Security and Climate Resilient Development</p> <p>Global Water Partnership</p> <p>Project Lead; Water Security Expert</p> <p>African Ministerial Council for Water (AMCOW), under the African Union (AU), developed the Framework for Water Security and Climate Resilient Development in 2012, which provides guidance for African countries on the integration of water security and climate resilience into development planning and investment decision-making processes. Ms Petrie is updating the Framework to strengthen aspects related to water security and climate resilience, and a gender transformative approach.</p> <p>Ms Petrie carried out the following activities: reviewed the existing AU-AMCOW Strategic Framework and identified gaps relating to climate resilience issues, outlined the process, approach, and methodology for updating the Framework, and finally drafted new material to be included in the different sections of the Strategic Framework.</p>
June- July 2022	<p>Environmental Awareness, Sustainability and Green Practices Training in IRM Businesses</p> <p>National Business Initiative (NBI), South Africa</p> <p>Facilitator and project lead</p> <p>As part of the Installation, Repair and Maintenance (IRM) Initiative, NBI together with the government and private sector are embarking on training of TVET students to expand their opportunities to embark on artisanal learning and employment pathways. The Initiative is a demand-led skills training space delivered through a public TVET College and workplace learning, delivered through blended learning approaches and aligned to entry level employment positions in artisanal businesses to enable wide reach and maximum opportunity for learners.</p> <p>Ms Petrie facilitated the virtual training, highlighting environmental awareness and sustainable practices throughout the session.</p>
July 2022 – January 2023	<p>Development of a Climate Landscape Analysis for Children (CLAC) including a Climate Financing Strategy for two priority areas in Angola</p> <p>UNICEF</p> <p>Team Lead, Climate Change, Policy and Institutional Review Expert</p>



		<p>Carrying out the data collection and analysis required, including stakeholder engagement; identifying actionable opportunities and making recommendations to integrate climate, environment, and energy development issues into UNICEF's sectoral programmes, and cooperation with Angolan government agencies.</p> <p>Responsibilities include: data collection and analysis; compiling and reviewing key resources including literature review and stakeholder interviews; carrying out qualitative and quantitative data analysis, provide recommendations to UNICEF Angola; identification of actionable opportunities to integrate development issues into UNICEF's sectoral programmes; and cooperation with Angola government agencies.</p>
July 2022 – March 2023		<p>The Mid-term evaluation for the South Africa GEF-funded project titled, “Building a resilient and resource-efficient Johannesburg: Increased access to urban services and improved quality of life</p> <p>Development Bank of Southern Africa (DBSA), funded by the Global Environment Fund (GEF)</p> <p>Project Director/Resilience/Energy/Policy expert</p> <p>Executing the mid-term evaluation of the GEF-funded project. Desktop review of all project documentation; interviews with relevant stakeholders; project site visits; formulation of a final MTE report.</p> <p>Responsibilities include conducting a desktop review of all documents provided and additional data gathering, interviews with the relevant project partners including project managers from the collaborating Implementing Agencies (DBSA and UNEP), members of the project management unit (PMU) and other staff from the executing agency, selected steering 16 committee members, component Leads from the CoJ, and other partners including representatives of the Department of Environment, Forestry & Fisheries (DEFF), site visits to relevant areas where the project is implemented including social housing and biogas construction sites, and formulation of MTE report based on the above findings.</p>
November 2021- June 2022		<p>Supporting the Implementation of Nationally Determined Contribution: Climate Budget Tagging, State-Owned Entities in South Africa</p> <p>South Africa National Treasury, funded by the World Bank</p> <p>Deputy Team Leader / Climate Change Specialist</p> <p>Development of a Climate Budget Tagging (CBT) design framework for State-Owned Entities (SOEs) and capacity building related to climate budget tagging (CBT), through the NDC support facility.</p> <p>Responsibilities include: Additional liaison with WB, NT, DEFF and DPME; provide Additional leadership on strategic issues around the objectives and governance of the CBT system; supporting methodology development, work planning and preparation of reports, guidance materials and workshops; Technical lead for climate change issues.</p>
October 2021 – April 2022		<p>Just Transition Framework, South Africa: Community and Stakeholder Engagement</p> <p>Presidential Climate Commission (PCC), Trade & Industrial Policy Strategies (TIPS), Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)</p> <p>Project Director, Just Transition Expert</p> <p>Project involves community and stakeholder engagements aimed at identifying and capturing the voices of vulnerable affected communities and parties regarding what constitutes a just transition.</p> <p>Activities include workshop and engagement design, stakeholder mapping, alignment of workshop design with previous activities related to the just transition in South Africa.</p>
Dec 2021–May 2022		<p>Methodology to support cities on measuring their safeguarding from flooding</p> <p>C40 Cities Climate Leadership Group</p> <p>Consultant</p>

		<p>Development of a methodology for measuring the impact of flooding solutions implemented in African cities (Abidjan, Accra, Addis Ababa, Cape Town, Dakar, Dar es Salaam, Durban, Ekurhuleni, Freetown, Johannesburg, Lagos, Nairobi and Tshwane): Synthesis of literature review and available methods; development of GIS methodology and methodology testing in 13 cities; refinement of the methodology.</p>
December 2021 - Nov 2022		<p>Financial Sector Credit Facility for SMEs (FSCFS) African Development Bank (AfDB)</p> <p>Team Leader: Senior International Expert on Climate Finance, Lead GCF Proposal, Private Sector and Africa Expert, Waster Sector Expert</p> <p>Project involves developing a green credit facility in order to scale up SMEs' access to climate finance and to promote green investments in relevant sectors of the economy through mobilising concessional and non-concessional resources to African SMEs and Youth-led businesses.</p> <p>Activities include a comprehensive market assessment for a Green Climate Fund proposal to support the development of the facility; enabling environment assessment; supporting the design of the SME Financial Sector credit facility; prepare the GCF funding proposal.</p>
September 2021 - June 2022		<p>Supporting Increased Private Sector Participation in Metro Level Resilient Linked Capital Investment World Bank</p> <p>City Lead for Johannesburg, Mangaung and Buffalo City; Resilience Specialist for all projects)</p> <p>Contracted to support increased private sector participation, through capital investment, in metropolitan-level resilience. Involves reviewing and providing pre-feasibility stage project preparation support for three metros. Projects selected for development include battery energy storage facilities; land remediation and renewable energy; integrated waste management, and flood risk management, blue corridor and wetland and river system rehabilitation.</p>
January 2022	– May	<p>Support to the Orange-Senqu River Basin Strategic Action Programme (SAP) Implementation (Midterm Review) United Nations Development Programme (UNDP) and Global Environment Facility (GEF)</p> <p>Regional Consultant; Local Expert</p> <p>Contracted as a local expert to assess progress towards the achievement of the Orange Senqu River Basin Strategic Action Programme. To assess early signs of project success or failure with the goal of identifying necessary changes to be made to the project. To review the project's strategy and risks to sustainability as well as assessing the impact of Covid 19 on the implementation of the project with necessary recommendations to ensure that a reasonable level of implementation can still happen.</p>
Oct 2021 - April 2022		<p>Continental African Water Investment Programme (AIP) Regional Resource Mobilisation Strategies International Water Management Institute (IWMI)/Global Water Partnership of Southern Africa (GWP-SA)</p> <p>Project Lead; Climate finance expert</p> <p>The project is developing five AIP Regional Resource Mobilization Strategies that will support AIP activity implementation: including review of existing programmes (climate, gender, TWM, IWRM, SDGs) implemented in Africa to identify relevant opportunities for significant development of the AIP at the regional level and provide guidance to align these activities with existing opportunities for programme development. Tasks include: review of GWP documents and literature, stakeholder interviews, investor matchmaking, identification of investment opportunities and development of a resource mobilisation plan per African region, development of country water briefs in each region.</p>

Sept - Dec 2021	<p>Technical Support in Strengthening Capacities of SADC Member States in Articulating Water Issues in Climate Negotiations</p>
	<p>Global Water Partnership of Southern Africa (GWPSA)</p>
	<p>Project Lead; Climate finance and capacity building expert</p>
	<p>Identify key entry points in the United Nations Framework Convention on Climate Change (UNFCCC) mechanism for water-related issues in the SADC region, train the SADC negotiators on these key issues and strengthen their position and voice in the UNFCCC process.</p>
	<p>Tasks include UNFCCC mechanism review; identifying key water-related issues in the SADC region; design of knowledge, information and training material for climate negotiators, and technical paper on water-related loss and damage. Lead author.</p>
June 2021 – October 2022	<p>– Paris Agreement: Gender Mainstreaming in Nationally Determined Contribution (NDC) Enhancement in SARA</p>
	<p>UNDP South Africa</p>
	<p>Project Lead, Institutional and Training Expert</p>
	<p>Ensuring that climate change and gender are mainstreamed into the implementation of South Africa’s revised NDC.</p>
	<p>Tasks include: Assessment of the legal, policy and institutional frameworks related to gender and climate change; gender analysis of key NDC sectors; identification of priority actions; development of South African gender and climate change action plan; development and implementation of training programmes for local, provincial and national sector departments; analysis of cost and investment opportunities for gender and climate mainstreaming; development of climate gender budgeting and tracking system; development of gender and climate change sex-disaggregated indicators; national dialogue to raise awareness of gender and climate change; climate change education and public awareness outreach in rural communities.</p>
May 2021 – Jan 2022	<p>Midterm Review of the Cubango-Okavango River Basin Strategic Action Programme (SAP) Permanent Okavango River Basin Water Commission (OKACOM)</p>
	<p>Project Lead</p>
	<p>A review of progress towards achieving the objectives of the Cubango-Okavango River Basin (CORB) Strategic Action Programme (SAP) and development of recommendations for the next decade of implementation. A theory of change approach was applied, stakeholder engagement, desktop review and a strategic institutional and governance assessment. Lead facilitator on interviews. Presentation and validation of the findings and recommendations to the Permanent Okavango River Basin Water Commission (OKACOM). Lead author.</p>
July 2021 – September 2022	<p>– Climate Landscape Analysis for Children in Uganda and Investment Case for Climate Resilient Interventions</p>
	<p>UNICEF Uganda</p>
	<p>Team Lead; Climate, policy and institutional review expert</p>
	<p>Analysis of Uganda’s climate energy and environment (CEE) landscape to inform programming, areas for intervention, and partnerships. Development of a baseline CEE and children report with landscaping analysis, identifying priority entry points for UNICEF Uganda’s engagement and CEE programming, mapping CEE stakeholders and financing opportunities for programming; participatory analysis lead, and lead author.</p>
July 2021 – January 2022	<p>– Strengthening the Participation of African non-Party Stakeholders in the UNFCCC Processes Konrad-Adenauer-Stiftung (KAS)</p>
	<p>Project Lead, Institutional and Training Expert</p>
	<p>Project to support the development of a strengthened African voice in COP26 climate negotiations and supporting the role of non-Party stakeholders in revising Nationally</p>

		Determined Contributions (NDCs): Scoping and stakeholder mapping; design/development of an online exchange platform; training materials development and capacity building; public outreach. Focus on key COP 26 negotiation issues, particularly Loss and Damage, Financing Climate Action and Nature-based Solutions and Water.
April 2021 – Jan 2022	–	<p>Strengthening of Ocean Governance in the Benguela Large Marine Ecosystem (BCLME), Phase II</p> <p>Benguela Current Commission/CapMarine</p> <p>Governance and legal expert</p> <p>Develop a set of guidelines/ standards for: waste management and discharges of plastics into the ocean from coastal sources in the BCLME region, and for ocean water quality. Desktop review of the regulatory environment for waste management and plastic discharge; review of International Best Practice and existing marine litter monitoring programmes, frameworks and guidelines; Development of guidelines and standards; and validation workshops.</p>
May 2021 – November 2023	–	<p>Technical Assistance to the Cities Support Programme (CSP): Climate Resilience Projects Strengthening Intergovernmental Coordination</p> <p>Government Technical Advisory (GTAC), South African National Treasury</p> <p>Team Lead; Climate Resilience Governance, Climate Finance, Renewable Energy, and Policy and Programme Support</p> <p>The CSP seeks to improve climate resilience and urban governance of South Africa’s eight metros. This project focusing on designing and implementing adaptive processes and capacities for establishing and maintaining partnerships for climate resilience, renewable energy, disaster risk management, and climate finance across targeted metros. This includes supporting the partnerships, and co-creation of flexible governance strategies for improving public sector service delivery to enhance metros’ climate resilience. The OneWorld team is supporting and strengthening intergovernmental coordination to identify, agree and deliver on municipal reforms needed to strengthen the intergovernmental system (policy, institutional and fiscal) for climate resilience and sustainability in the identified project(s); and provide technical, and programme support to the climate resilience component of the project.</p>
July 2021 – January 2022	–	<p>Revitalisation of South African Mining Ghost Towns</p> <p>Industrial Development Corporation of South Africa (IDC)/AFD</p> <p>Project lead, Just Transition and Green Economy expert</p> <p>Identification of alternate pathways for the sustainability of targeted mining towns under the scenario of declining mining activities, towards adopting pre-emptive interventions to prevent the project targeted towns from becoming “ghost towns”. Activities include desktop research, situational analysis, and identification of turnaround strategies, supported by participatory analysis. Focus is on enabling transitions to green economy and climate resilient developments within the mining sector in the project towns, to catalyse green economy transitions in other sectors such as tourism and agriculture.</p>
June 2021 – Jan 2022	–	<p>Study: The Status of Groundwater Policy and Governance in South Africa: Role of Local Partnerships to support Local Groundwater Resource Management</p> <p>World Wildlife Fund (WWF)</p> <p>Groundwater Policy and Governance Expert: Project Lead</p> <p>Strengthening of groundwater governance (with a focus on the Table Mountain Water Source Area), through policy and institutional assessment, institutional mapping and identification of partnerships; recommendations for a local groundwater partnership for groundwater governance and resource management. Lead on policy, legal frameworks and institutional review; design of partnership; recommendations, lead author.</p>
March 2021 – December 2021	–	<p>Green/Sustainable Finance Study in GIZ Supported Countries</p>

Deutsche Gesellschaft für Internationale Zusammenarbeit – GIZ, with WINS

Team Lead; Green finance expert

With WINS, study on country initiatives relating to core elements of a green financial system (South Africa, Mexico, Thailand, Morocco); assessment and review of financial system elements, and recommendations for scaling up.

March 2021 – ReNOKA/We are a River: Development of tools for the mainstreaming of Integrated Catchment
December 2022 Management into development planning, Lesotho (GIZ, UNCDF LoCAL and The World Bank, 2022).

Project lead

The revised Terms of Reference for this assignment involve the development of an investment planning toolkit to support ICM mainstreaming in development planning at national and catchment management levels of Lesotho’s governance structures, through a bottom-up and top down approach; and testing and validation of the toolkit with the ReNOKA Financing and Investment Technical Reference Group and stakeholders at all levels including sub-catchment level; and a Train the Trainers workshop.

June – November 2021 Capacity Building on risk and vulnerability assessment tool and development of national climate RVA for Health Sector

South African Dept. of Health; Dept. of Environment, Forestry and Fisheries/ GIZ

Team Leader and Adaptation Expert

Review, realign and update the Climate Change Health Risk and Vulnerability Assessment (HRVA) Tool and carry out HRVAs for 52 districts across South Africa. Task involve leading a team of experts to review, realign and update the Climate Change Health Risk and Vulnerability Assessment (HRVA) Tool and carry out HRVAs for 52 districts across South Africa. Lead on co-developing synthesis analysis, participatory analysis and refinement of the Tool; lead author.

December 2020 – Management of Adaptation Benefit Mechanism (ABM) Roster of Experts
current African Development Bank (AFDB), Climate Change and Green Growth Department (PECG)

Project lead

Support to development of the Adaptation Benefit Mechanism (ABM), aiming to mobilise new public and private sector finance for African climate change adaptation projects. The ABM will utilise a roster of experts to provide support on ABM methodology panels.

Responsible for assisting in processing experts’ applications to join the roster: screening applications and recommending qualified experts to join the roster, developing a database of experts according to their area of expertise, and processing contracts and liaising with the experts.

April – Sept 2021 Support the Development of Cadre and Portal Design Studies for Inclusive Budgeting and Financing for Climate Change in Africa (IBFCCA)

Collaborative Africa Budget Reform Initiative (CABRI)

Project lead, knowledge and climate finance expert

Support in designing and developing a cadre and knowledge portal to strengthen mainstreaming of climate change and gender into public financial management (PFM) systems. Includes making recommendations for development of a cadre and an online knowledge portal to be used internally by program partners and the cadre, and externally by governments, legislatures, and civil society organisations. Desktop review; design and recommendations for cadre and portal, lead author; participatory analysis lead.

May 2021 – Technology Needs Assessment and associated action plan for climate change mitigation and
October 2022 adaptation in Iraq’s most vulnerable economic sectors

Climate Technology Centre and Network (CTCN)/UNIDO



Lead for Agriculture and Water adaptation and technology uptake

Input to the development of a comprehensive Technology Needs Assessment (TNA) and action plan for implementing Iraq's Nationally Determined Contribution (NDC), through: drafting the agricultural sector analysis (adaptation), and providing support to the energy and industry sector analyses (mitigation), and the water sector (adaptation); providing support and input on gender mainstreaming.

January 2021 – December 2022 – Strengthening Lesotho's national designated authority (GCF) and developing strategic frameworks

Development Bank of Southern Africa (DBSA)

Project Lead and Climate Finance and Institutional Development Expert

Establishing and strengthening institutional frameworks to enhance engagement with the GCF and global climate finance landscape. Undertaking climate finance baseline analysis, stakeholder engagement and capacity building and awareness raising targeting key stakeholders in country's climate finance landscape; developing country programme and Action Plan to identify and prioritise a pipeline of climate change projects and programmes for GCF funding; outline Concept Notes for some identified projects.

April 2021 – April 2022 – Analysis of Tanzania's Climate, Energy and Environment Landscape to inform programming and the new Country Programme

United Nations Children's Fund (UNICEF)

Team Lead; Climate Change, Policy and Institutional Review Expert

Analysis of the country's Climate, Energy and Environment (CEE) Landscape, based on literature and document review; climate change, energy and environment assessments and a policy and institutional review. Development of prioritised recommendations for the Country Office on its current CP, and the design of the forthcoming CP, and related interventions. Tasks: Development of a Theory of Change and identification of pathways for change, validated through participatory analysis and ground-truthing; delivery of knowledge products including the final CEE Landscape Report; Recommendations for UNICEF Programming and an academic journal article co-authored with UNICEF WASH.

2020 – Climate Change and water stress in the Middle East and Northern Africa region: evidence mapping

DFIS MENAD

Team Lead

The project involved the establishment of evidence maps on climate impacts and water stresses in the region; review of evidence to identify future evaluations or research needs in key priority areas.

September 2020 – June 2022 – Supporting the Implementation of Nationally Determined Contribution: Climate Budget Tagging

South Africa National Treasury, funded by the World Bank

Deputy Team Leader

To provide support for the implementation of SA's NDC through the development of a climate budget tagging (CBT) system, guidance materials and methodologies for all spheres of governance in South Africa. Design and implementation of capacity needs assessment, CBT awareness raising, capacity building, testing and CBT system piloting at national, provincial and local level.

Tasks: broad capacity assessment of budget preparation activities, development of CBT methodologies and options for SA, development of CBT guidance materials for implementation, rationale and awareness raising of CBT, capacities needs assessment, piloting of CBT in selected ministries, stakeholder engagement. Reviewed international experiences of CBT in countries including Mexico, Thailand, Fiji and Uganda, and developed a CBT Options Paper. Based on the findings and participatory analysis with SA Government.



September 2020 - December 2020	<p>Supporting the German EU Presidency in Strengthening EU Capacity for Climate Security German EU Presidency</p> <p>African Lead</p> <p>Co-hosting of two virtual workshops to support the German EU presidency in strengthening EU capacity for climate security, involving discussion of a strategy for delivering a ‘whole-of-EU’ approach to climate security in Europe and the role of the EU in driving reforms in international institutions; discussion on the strategic partnership between the EU and the African Union, its member states and other African institutions to better address climate-fragility risks in Africa.</p> <p>Tasks: Identification of key stakeholders from the African continent, coordinating and organizing the African-led workshop, and the development of a working paper informed by these two events.</p>
June 2020 - September 2020	<p>Investigating the efficacy and impact of sustainability indicators in South African cities South African Cities Network</p> <p>Project Lead; Climate Adaptation, Climate Finance and Participatory Analysis</p> <p>In partnership with ICLEI Africa, OneWorld investigated the efficacy and impact of sustainability indicators currently reported on across nine South African cities, identifying all sustainability indicators that cities report on and to whom; their sufficiency and the need for additional indicators, and whether these will enable cities to tell a holistic sustainability transition story over time.</p> <p>Tasks: Identifying methodologies/frameworks in use to track sustainability indicators; analysis of the efficacy of the methodologies/frameworks in tracking progress towards achieving sustainability goals. Scoping and desktop review of sustainability indicators; participating in a co-design team workshop; co-facilitating a City Workshop and conducting follow-up interviews and consolidating findings into a Final Report.</p>
April 2020 – March 2021	<p>Development of Capacities for Green Climate Fund Project Development African Development Bank (AfDB), Climate Change and Green Growth Department (PECG)</p> <p>Project lead, South African expert, climate finance specialist</p> <p>Lead on design and development of 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) through a stock take and gap analysis of existing training materials including a literature review, stakeholder engagements and training needs assessment. Development of six training modules, delivered on an online training platform (Cap-Net). Of the 104 participants, 74 completed the course (71%) and of the 74, 63 qualified as trainers (85%).</p> <p>Tasks: lead on the 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.</p>
March – November 2020	<p>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</p> <p>Team Lead; Social Scientist & Natural Resource Governance</p> <p>Baseline and situational analysis and priority implementation plan for the rehabilitation and sustainable management of the Orange-Senqu River Mouth (OSRM): comprehensive desktop and literature review; carried out structured stakeholder engagements and participatory analysis; developed and applied a basic multi-criteria decision-making tool; lead and facilitated online and hybrid (online and in-person) stakeholder engagement workshops with key stakeholders from Namibia and South Africa; and co-developed and prioritised management interventions in the form of an implementation plan for OSRM.</p>
December 2019 – July 2020	<p>Water Information Sharing Explorations (WISE) Initiative Global Water Partnership (GWP), Global Secretariat</p>



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 supported the development of the proposal for BHP to finance the Initiative which is planned across two phases, Opportunities for Action and Piloting for Action.

July 2020 – March 2022

Supporting the Development of a Green Climate Fund (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

To support the development of a GCF funding proposal to benefit smallholder farming and rangeland management in Tanzania. This includes revising the technical concept note and developing feasibility studies to support the development of and rationale for a full GCF funding proposal. Four key project outcomes are: i) climate resilient landscapes; ii) climate resilient agriculture value chains; iii) climate infrastructure and services; and iv) institutional coordination and collaboration.

Lead on developing the technical feasibility assessments required for this project, to include: Climate Change Vulnerability and Adaptation Assessment; Gender Analysis; Economic and Financial Appraisal; Stakeholder Engagement; Site Visits; Agriculture Value Chain Assessments; Environmental and Social Management Systems; Legal and Due Diligence Assessment; Mitigation and Energy Efficiency Assessment.

April - September 2020

Facilitation of the Establishment of National Focal Groups in SADC Member States

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

Team leader, capacity development & training specialist

This project involved setting up and piloting National Focal Groups (NFGs) in five SADC member states, to support integrated groundwater management through improved dialogue and exchange, capacity building and implementation of pilot projects. Lead 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 of the 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 - September 2020

– Scaling Climate Action Through Climate Technology and Innovation by SMEs

African Development Bank, Climate Change and Green Growth Department (PECG); under Natural Eco Capital

South African Expert & Tool Development Lead

This project aimed 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. Tasks: Lead the development of 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 - June 2020

– Developing a Situation Analysis Report on Climate Change and its Impact on Mining in South Africa



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

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: i) Developed a political economy analysis: stakeholder mapping, roles and vested interests; identification of drivers of and barriers to 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 impact; all verified through participatory analysis; gap analysis and final Situation Analysis and R&V Assessment Report.

February
November 2020

– Training Manual on the preparation of proposals to access funding for Sustainable Ground 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 aimed 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 – September
2019

SEED Practitioner Labs Climate Finance: Prototyping Innovative Financial Products to 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 –
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

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- April 2021

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

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. Specifically assist strategically targeted countries in strengthening their proposals in terms of: the level of concessionality; prioritisation and coherence of activities into programmes; 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.

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 supporting the prioritisation and development of climate change projects and conducting economic risk assessments and cost benefit analyses; facilitation of an online Train the Trainers course(s).

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 the 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 and lead on analysis of optimal energy services and resultant socio-economic co-benefits. Developed the cost-benefit model to analyse the job, enterprise development, social welfare and economic co-benefits associated with improving low-income household access to and consumption of energy services and led the development of the financial and cost model to understand the associated cost implications for the City of Cape Town and for households in the provisioning of optimal energy services.

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.

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. Led the development of alternative scenarios for these pathways and for achieving the Vision objectives, through modelling three plausible scenarios for the outcomes of implementing stakeholder identified pathways. Lead on validation and stakeholder engagement.

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 evidence-based knowledge and networking strategy, exchange and dialogue facilitation, development of co-created knowledge products published by the CIF. Included the development of a widely disseminated research brief on microfinance solutions enabled by concessional finance, for climate responses, drawn from Mozambique, Tajikistan and Jamaica. Evaluated and profiled case studies to test and document the efficacy of green finance in targeted project countries.
April – June 2017; June – August 2018	Discussion Paper on the Permanent Okavango River Basin Agreement (Angola, Botswana, Namibia)
	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. This 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

Practitioners' Dialogue on Climate Investments (PDCI)

German Federal Ministry for Economic Cooperation & Development/ funded by GIZ

Advisor on business model/idea development and policy solutions for enabling climate finance measures

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/>). 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.

March –
September 2017

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

United Nations Industrial Development Organisation (UNIDO) / funded by State Secretariat for Economic Affairs (SECO) of the Swiss Confederation

Renewable Energy Expert

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.

Jan – Feb 2017

Discussion Document on the Dynamics of Nuclear Energy in South Africa

Soul City Institute NPC

Project lead and Energy Expert

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

	<p>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>
<p>Nov 2016 – Dec 2017</p>	<p>Water Law Equivalence Assessment and Options Paper for the Zambezi River Basin 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, 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.</p>
<p>January 2016 - present</p>	<p>The Politics of Implementing the Paris Agreement Institute for Development Studies and the German Institute for Development</p> <p>Lead and co-author</p> <p>Lead for the design and comparative analysis of the feasibility of implementing the Nationally Determined Contributions (NDCs) in Africa (Kenya and South Africa), Asia (China and India) and Europe (Germany and the United Kingdom). Contributing author on the global synthesis analysis of the comparative analysis findings to inform the review of the Paris Agreement 2020, now postponed to 2021.</p>
<p>Nov-Dec 2016</p>	<p>Support to & Formulation of DEA Energy Partnership Programme, Phase 2 (2017-2020) Danish Energy Agency (DEA)/Greg Moran & Assoc. funded by DANIDA</p> <p>South African energy expert</p> <p>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.</p>
<p>April – September 2016</p>	<p>Strengthening Climate Resilience in the Kafue Sub-Basin Project (SCRICA) Government of Zambia: National Climate Change Secretariat (NCCS) in Ministry for Development. Funded by World Bank & African Development Bank</p> <p>Project Director, Water and Climate Finance Expert</p> <p>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.</p> <p>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.</p>
<p>2014-2015</p>	<p>Political Economic Analysis of the Renewable Energy Industry in South Africa</p>

	<p>IDS/University of Cape Town</p> <p>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.</p>
July 2012- May 2017	<p>Resilience in the Limpopo River Basin Programme (RESILIM)</p> <p>USAID/ Chemonics funded by USAID</p> <p>Programme lead for Climate Change and Water Resilience</p> <p>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.</p> <p>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.</p>
November 2016 – April 2017	<p>Study on Urban Climate Finance for ‘Cities Fit for Climate Change’: South Africa: eThekweni (Durban)</p> <p>GIZ, funded by German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMUB) / adelphi</p> <p>Project Lead and Climate Finance Specialist</p> <p>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);</p> <p>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</p>
September 2016 – October 2016	<p>Country Strategy Paper-III (2017-2021)</p> <p>Governments of Flanders and South Africa</p> <p>Project Lead and Climate Finance Expert</p> <p>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.</p> <p>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.</p>
May 2015 – Dec 2019	<p>International Climate Initiative (ICI) Vertical integration and learning for low-emission development (V-LED) in Africa and Southeast Asia</p> <p>Adelphi/German Government International Climate Initiative, funded by German Federal Ministry for Environment, Nature Conservation & Nuclear Safety (BMUB)</p> <p>Project Lead for South Africa and Kenya</p> <p>Responsible for management and implementation of selected activities in the two countries:</p> <p>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</p>

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 Evaluation and Review
DANIDA / Danish Foreign Ministry (MFA)

Climate finance expert and team lead, climate change component

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. Conducted interviews, focus group discussions and analytical exercises to review the Bangladesh CP and to make recommendations for amendments, climate finance arrangements and institutional and capacity development arrangements.

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 -
January 2015

Climate Finance Readiness (CFR) Project in Southern and Eastern Africa
United Nations Development Program (UNDP)

Project lead and climate finance expert

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.

November 2013 –
September 2014

Pilot Program for Climate Resilience (PPCR) in Mozambique: An Assessment of Climate Resilient Livelihood Options in Drought Prone Areas

Mozambique Ministry for Development Planning (República De Moçambique Ministério Da Planificação E Desenvolvimento); and the World Bank (under Climate Investment Funds)

Project Lead and Water Resource Expert

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.

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.

March 2013 – May
2013

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)

SADC Regional Vulnerability Assessment and Analysis (RVAA) Programme, funded by Southern African Development Community Food, Agriculture and Natural Resources (SADC-FANR) Directorate

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

2013

Nile Basin Initiative: Review of all Environmental policies and strategy; Development of the Nile Basin Climate Change Strategy

GIZ, through Adelphi consult



	<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>
2013	<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 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>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>

2017	<p>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</p> <p>Led 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>Designed and conducted the evaluation of the GWP-implemented Water Security and Climate Resilient Development Programme for Africa Programme. Conducted interviews, participatory analysis and desk research to evaluate the programme against the dimensions of efficiency, effectiveness, impact and sustainability.</p>
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>Water Climate & Development Programme (WACDEP)</p> <p>Global Water Partnership (GWP) and African Ministerial Council for Water (AMCOW)</p>
	<p>Reference Group (RG) Member</p> <p>The development of the Strategic Framework for the water security and Climate Resilient Development of Africa Programme (WACDEP) and providing advisory services on developing and implementing water and development investments in Africa.</p> <p>Advisor in the RG to 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.</p> <p>Advisory on various programme-country climate and water strategies and investments; advisor on climate finance for these investments.</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).</p> <p>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>
Oct -Nov 2009	<p>Gender-differentiated impacts of Climate Change in Southern Africa</p>

Heinrich Böll Stiftung (HBS)

Lead Author

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.

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.

June 2010 – June 2012 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

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

July – Sept. 2017; Aug 2018 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



	<p>Project Lead and Financial Structuring Expert</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>
September 2009 – March 2010	<p>Strengthening Capacity for Climate Change Adaptation in the Agricultural Sector of Lesotho Food and Agriculture Organisation of the United Nations</p> <p>Project Director, Climate Change Adaptation and Impacts Expert</p> <p>Undertook a baseline study on climate-related impacts and vulnerabilities on crop, livestock and forest-based livelihood systems in the selected watershed/catchments and prepared a policy paper published by FAO.</p>
2008 – 2012	<p>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</p> <p>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.</p>
2008-2009	<p>Facilitation, Strategic Advisor and Technical Assistance for the SADC Multi-Stakeholder Water Dialogues Southern African Development Community, funded by 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> <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 Tasks included Facilitation and thematic presentations; development of Policy outputs and Dialogue Outcome Statements; development of Briefing Papers</p>
August 2007-July 2012	<p>Regional Climate Change Programme (RCCP) - Southern Africa 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</p>

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. 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.

2007-2011

George Mobility Strategy

Ninham Shand/Aurecon

Project lead on the socio-economic survey and social impact assessment

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.

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.

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	<p>Solar water heating market and finance study</p> <p>InWent / City of Cape Town, funded by German Federal Government</p> <p>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.</p>
2004 - 2006	<p>Blue Crane Integrated Energy Assessment and Planning</p> <p>Blue Crane Development Agency, Eastern Cape, South Africa</p> <p>Project Lead and RE Expert</p> <p>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.</p>
2003 - 2004	<p>Support for Development of South Africa Wind Energy Programme (SAWEP) Phase 1</p> <p>UNDP (GEF funded)</p> <p>Renewable Energy and Governance Expert</p> <p>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 recommending 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.</p>
2003 - 2017	<p>Ibhubesi Natural Gas Development Project</p> <p>Forest Oil International followed by SunBird Energy Ltd (who purchased the gas field rights from Forest Oil in 2015)</p> <p>Project Lead</p> <p>Provision of 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 and detailed direct and indirect job modelling to ascertain jobs impacts of the gasfield developments over time, and to determine the skills and training needs for local sending communities; 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 regulatory environment and applicable international law.</p>

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, Wolpe, P., Reddy, Y., Adriázola, P., Gerhard, M., Landesman, T., Strauch, L., Marie, A. (2019). Multi-level climate governance in South Africa. Catalysing finance for local climate action. Berlin/Cape Town: adelphi / OneWorld / Sustainable Energy Africa. Available: <https://www.adelphi.de/en/publication/multi-level-climate-governance-south-africa>
- 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

Policy Briefs and Occasional Papers

- Petrie, B. & Borain, L. (2022). “From Research, to Policy, to Water Investment in Africa” Research Brief, September 2022. OneWorld Sustainable Investments. Available online: <https://oneworldgroup.co.za/researchpolicybrief/>
- Petrie, B. & Marie, A. (2020). ‘Building resilience in Africa: Enabling an inclusive digital economy and energy access for all.’ Policy Briefing 214, September 2020. South African Institute of International Affairs (SAIIA), Johannesburg, South Africa. Published under the EU-Africa Partnership for Energy Access and a Green Transition, funded by the Konrad-Adenauer-Stiftung Regional Programme on Energy Security and Climate Change in Sub-Saharan Africa. Available: <https://saiia.org.za/research/building-resilience-in-africa-enabling-an-inclusive-digital-economy-and-energy-access-for-all/>
- Petrie, B. (2017). ‘Cooperative Water Governance for Climate Resilience: Are Institutional Arrangements in Southern Africa Fit for Purpose?’ South African Institute for International Affairs (SAIIA). Governance of Africa’s Resources Programme, Occasional Paper 268. Available online at <https://saiia.org.za/research/cooperative-water-governance-for-climate-resilience-are-institutional-arrangements-in-southern-africa-fit-for-purpose/>
- 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>
- 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

Research Reports, Training Manuals and other publications

- Petrie, B., Chapman, A., Schapers, M. & Monteith, S. 2020. Facilitator’s Guide - Training Manual on Preparing Funding Proposals for Groundwater-Related Projects. Prepared by OneWorld for SADC Groundwater Management Institute: Bloemfontein, South Africa. Available online: <https://oneworldgroup.co.za/publications/facilitators-guide-for-the-training-manual-on-preparing-funding-proposals-for-groundwater-related-projects-facilitators-manual/>
- Petrie, B., Chapman, A., Schapers, M. & Monteith, S. 2020. Training Manual on Preparing Funding Proposals for Groundwater-Related Projects. Prepared by OneWorld for SADC Groundwater Management Institute: Bloemfontein, South Africa. Available online: <https://oneworldgroup.co.za/publications/training-manual-on-preparing-funding-proposals-for-groundwater-related-projects-participants-manual/>

- Petrie, B. & Unite, E. (2020). Training Materials: Training course on GCF project development. OneWorld Sustainable Investments. Submitted under the African Development Bank, (AfDB) project: "Training of Trainers on GCF Project Development". Available online: <https://oneworldgroup.co.za/publications/training-materials-training-course-on-gcf-project-development/>
- Petrie, B., Morris, M., Smit, D., Perkins, P., Tsilik, P. (2022). Mining Towns in Transition Framework. Under the project "Revitalisation South African Mining Ghost Towns Research", on behalf of the Industrial Development Corporation of South Africa (IDC) and funded by Agence Francaise de Developpement (AFD). OneWorld Sustainable Investments, Cape Town
- Petrie, B., Sullivan, A., and Sack, H. (2021) Gender and Institutional Analysis Report. For the DFFE and UNDP under the project Paris Agreement: Gender Mainstreaming in NDC Enhancement in South Africa. OneWorld Sustainable Investments, Cape Town, South Africa.
- Petrie, B., and Sack, H. (2021) Climate Finance Mapping Report: Mozambique. For the Oxford Policy Management, the NDA and the GCF under the project Piloting Activities for the Preparation of Country Programmes. OneWorld Sustainable Investments, Cape Town, South Africa
- Petrie, B., Rawlins, J., and Sack, H (2021). Climate Change Economic Risk Assessment: Republic of Mauritius. For the Oxford Policy Management, the NDA and the GCF under the project Piloting Activities for the Preparation of Country Programmes. OneWorld Sustainable Investments, Cape Town, South Africa
- Petrie, B., Davies, R., Sack, H., and Rawlins, R. (2021). FINAL Hazard Risk and Vulnerability Assessment: Republic of Mozambique. For Oxford Policy Management, the NDA and GCF under the project Piloting Activities for the Preparation of Country Programmes. OneWorld Sustainable Investments, Cape Town, South Africa
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- Petrie, B., Sack, H., and Rawlins, R. (2021). FINAL Integrated Prioritisation Framework: Republic of Mozambique. For Oxford Policy Management, the NDA and GCF under the project Piloting Activities for the Preparation of Country Programmes. OneWorld Sustainable Investments, Cape Town, South Africa
- Petrie, B., Sack, H., and Rawlins, R. (2021). FINAL Integrated Prioritisation Framework: Republic of Mauritius. For Oxford Policy Management, the NDA and GCF under the project Piloting Activities for the Preparation of Country Programmes. OneWorld Sustainable Investments, Cape Town, South Africa
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- Petrie, B., Chapman, A., Kinghorn, A., Weaver, Z. (Forthcoming). *Capacity Building on Risk and Vulnerability Assessment Tool and Development of National Climate Risk and Vulnerability Assessment for the Health Sector – Synthesis Report*. For the Department of Fisheries, Forestry and Environment, and Department of Health, South Africa. OneWorld Sustainable Investments, Cape Town.
- Department of Environment, Forestry and Fisheries (DEFF), **Petrie, B.**, Perkins, D., Davies, R., Wewege, S., Monteith, S., Tsilik, P. (2020). Summary Report. *Situation Analysis and Risk and Vulnerability Assessment on Climate Change and its Impact on Mining in South Africa*. International Institute for Sustainable Development. Winnipeg, Canada.

- Petrie, B. Wewege, S. (2020) Final Report. Undertaking a capacity needs assessment in the areas of Environmental and Social Safeguards, Gender Equality and Indigenous Peoples issues. Prepared for the Green Climate Fund (GCF). OneWorld Sustainable Investments. Cape Town, South Africa.
- Petrie, B., Marie, A., Rusere, C. & Venkatramani, S. (2019). Climate Funds Analysis. Climate Resilience and Risk Financing. Under contract to Oxford Policy Management (OPM) for the Centre for Disaster Protection. OneWorld Sustainable Investments, Cape Town, South Africa.
- Petrie, B., Rawlins, J., Engelbrecht, F., Davies, R. (2019). *Climate Resilience Investment Manual*. Climate Change Hazard, Vulnerability and Risk Assessment Study to the Benefit of the City of Cape Town for Suez/Safege, under contract to Agence Française de Développement (AFD), for the City of Cape Town)
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