

CV

Key Experience		Expert
<ul style="list-style-type: none"> • Support to African and Caribbean countries in Technology Needs Assessment • Broad knowledge of energy technologies, including renewables, energy access and climate change issues in developing countries • Capacity building and institutional strengthening in African energy institutions • Work experience in Sub-Saharan Africa and especially the Southern African region, Lesotho and Zambia. • Experienced user and instructor of LEAP energy modelling framework, applied in Ghana 		<p>Dr Gordon Alexander Mackenzie</p>
Specialization <ul style="list-style-type: none"> - Theory of Change / LFA / Outcome Mapping - Project Management - Energy Technologies - Energy Demand Modelling - Capacity building 		Position: Chief Consultant, Project management and Communications, UNEP DTU Partnership Year of Birth: 1950 Languages: English (mother tongue), Danish (fluent), French (basic), Spanish (beginner)
Employment record		
2018 - ongoing	Denmark	Chief Consultant, Project management and Communications, UNEP DTU Partnership, Denmark
2002 - 2018	Denmark	Head of Programme (formerly Senior Researcher / Cleaner Energy Development Coordinator) From 2010: Head of Programme, Cleaner Energy Development at UNEP DTU Partnership, Denmark (formerly UNEP Risoe Centre)
1999-2002	Lesotho	Chief Technical Advisor / Energy Planning Advisor, Department of Energy, Lesotho (employed by Rambøll A/S, on leave from Risoe National Laboratory)
1990-1999	Denmark	Senior Researcher, UNEP Risoe Centre (formerly UNEP Collaborating Centre on Energy and Environment), Risoe National Laboratory
1987-1990	Denmark	Senior Researcher / Group Leader, Systems Analysis Department, Risoe National Laboratory
1984-87	Zambia	Deputy Director / Energy Advisor, Department of Energy, Zambia, Danida personnel assistance to Zambia (employed by Danida, on leave from Risoe National Laboratory)
1980-1984	Denmark	Researcher, Systems Analysis Department, Risoe National Laboratory
1979-1980	Denmark	Guest researcher, Department of Physics, Risoe National Laboratory
1978-1979	UK	Lecturer, Department of Physics, University of Edinburgh, Scotland
Selected Assignments		
Technology Needs Assessments III	2018-2020	Country coordinator for Antigua & Barbuda, Dominica, Trinida & Tobago
CTCN – GCF Concept Note support (Zambia)	2018	GCF Concept Note training - Zambia team leader of 3-person team providing capacity building to Zambia to develop project proposals, based on the GCF Concept Note template.

CTCN – GCF Concept Note support (Guyana)	2017	GCF Concept Note training - Guyana Team leader of 3-person team providing capacity building to Guyana to develop project proposals, based on the GCF Concept Note template.
CTCN – GCF Concept Note support (Jordan)	2016	“Strengthening capacity to access international financing for Jordan's climate technology priorities” – member of 3-person team providing capacity building to Jordan to develop project proposals, based on the GCF Concept Note template.
Technology Needs Assessments II	2015-2018	Country coordinator for Jordan, Egypt, Guyana, Belize, Grenada, and Seychelles Trainer in capacity building workshops for the Africa and Middle East Region Preparing and recording e-learning modules
ADMIRE	2015	Inception mission for “Climate Change mitigation through commercial solar cooling in South Africa” project in collaboration with SANEDI, South Africa.
LEAP for Ghana (part of PhD)	2011-2013	Support to PhD student (Francis Kemausuor) regarding use of LEAP model for Ghana.
Technology Needs Assessments I	2010-2013	Country coordinator for Kenya, Zambia, Bhutan Trainer in capacity building workshops for the Africa and Middle East Region
CEMA	2009-2011	Project manager: EUEI/UNEP Capacity Enhancement and Mobilisation Action for Energy in Africa Capacity building/mobilising finance for energy investments
PACEAA	2007-2010	Project manager Poverty Alleviation through Clean Energy from Agro-industries in Africa (EC COOPENER)
Alleviation of Poverty through the Provision of Local Energy Services (APPLES)	2005-2008	Team member on project (EC COOPENER) targeting South Africa. Inception mission to KwaZulu Natal, South Africa 6-10 June, 2005
Development and Energy in Africa (DEA)	2005-2007	Project Manager Development, testing and application of a methodology to assess developmental outcomes and impacts from small energy projects, in collaboration with centres in six countries. The DEA project (www.deafrica.net) was supported by the EC COOPENER Programme - https://ec.europa.eu/energy/intelligent/files/coopener_report.pdf .
EUEI Facilitation Workshops and Policy Dialogues	2004-2005	Project Manager Workshops bringing together multi-sector groups from 14 countries to work together on project identification (http://euei.e4d.net/). The country teams developed concrete initiatives that could be submitted for support under the EU Energy Facility.
CD4CDM	2002-2003	Regional Coordinator - North Africa and Middle East (Capacity Development for the CDM http://www.cd4cdm.org/project.htm)
Ghana: Strategic National Energy Policy	2000-2003	Support and training of Ghana Energy Commission in the implementation and use of the LEAP model
Lesotho: Energy Management	1999-2002	Chief Technical Advisor and Energy Advisor to Department of Energy, Lesotho, leading to completion of the Energy Policy Framework for Lesotho.
Academic Qualifications		
1976	UK	Physics, PhD, University of Edinburgh
1973	UK	Physics, BSc (Hons.), University of Edinburgh

Selected Publications

- Nygaard, I, Hansen, UE, Mackenzie, GA & Pedersen, MB 2017, 'Measures for diffusion of solar PV in selected African countries' International Journal of Sustainable Energy, vol 36, no. 7, pp. 707-721. ,
- Haselip, JA, Larsen, TH, Ackom, E, Mackenzie, GA & Christensen, JM, 2017, 'Reflections on experience with the global network on energy for sustainable development as a South–South global knowledge network' Energy for Sustainable Development, vol 36, pp. 37-43.
- Christensen, John M., Gordon A. Mackenzie, Ivan Nygaard, Mathilde Brix Pedersen, *Enhancing Access to Electricity for Clean and Efficient Energy Services in Africa*, UNEP DTU Partnership (2015) Copenhagen, Denmark
- Haselip, James Arthur; Desgain, Denis DR; Mackenzie, Gordon A. *Non-financial constraints to scaling-up small and medium-sized energy enterprises: Findings from field research in Ghana, Senegal, Tanzania and Zambia. Energy Research & Social Science* vol: 5, pages: 78-89, 2015
- Chen, Xiaoxiao; Narkeviciute, Rasa ; Haselip, James Arthur ; Mackenzie, Gordon A. *Developing and Testing a Best Practice Framework for Energy Access Interventions. Sustainable Development*, Vol 23, Issue 5, pg. 257-272, 2015
- Kemausuor, F, Nygaard, I & Mackenzie, GA 2015, *Prospects for bioenergy use in Ghana using Long-range Energy Alternatives Planning model* Energy, vol 93, no. Part 1, pp. 672–682. DOI: 10.1016/j.energy.2015.08.104
- Haselip, J.A., Narkeviciute, R., Batidzirai, B., Mackenzie, G.A. (2015). *Energy systems integration for a decarbonising world: a global perspective to understanding the needs, trends and barriers to scaling up grid-connected renewable energy*. Chapter in *DTU International Energy Report*.
- Haselip, James Arthur; Desgain, Denis DR; Mackenzie, Gordon A., *Financing energy SMEs in Ghana and Senegal: Outcomes, barriers and prospects*. Energy Policy, Vol. 65, 2014, p. 369-376.
- Haselip, James Arthur; Desgain, Denis DR; Mackenzie, Gordon A. *Energy SMEs in sub-Saharan Africa: Outcomes, barriers and prospects in Ghana, Senegal, Tanzania and Zambia*. UNEP Risø Centre on Energy, Climate and Sustainable Development. Department of Management Engineering. Technical University of Denmark (DTU), 2013. 118 pp.
- Christensen, J.M. and Mackenzie, G.A. (2010) *Low carbon energy technologies and poverty alleviation – overcoming barriers and unlocking potentials*, in 2010 Africa Energy Yearbook, EnergyNet Limited, 2010, <http://www.energynet.co.uk/AEY/index.html>
- Mackenzie, G.A., *Knowledge-based policy engagement and increasing energy access*, Energy Management News, vol 15, no 3, September 2009, University of Cape Town. <http://www.erc.uct.ac.za/emnews/EMN-09-09.pdf>
- Mackenzie, G.A., Dieden, S., Clausen, N-E, Denton, F, van Sambeek, E.J.W. (2008) *Development and Energy in Africa (DEA) Project Summary*, March 2008, Risø DTU, Denmark. <http://deafrikanet/Reports/project%20summary.pdf>
- Mackenzie, G.A. and Haslev-Hansen, N. (2006) *Capacity Building on Access to Energy in Africa: Final Report. Danish Support to EUEI Facilitation Workshops and Policy Dialogues*. Report to Danida (Danish Ministry of Foreign Affairs). Risø National Laboratory, Denmark. <http://www.e4d.net/euei/EUEI%20final%20report.pdf>
- Mackenzie, G.A. (2005) *Climate Change Mitigation Analysis in Southern African Countries: Capacity Enhancement in Botswana, Tanzania and Zambia in "Climate Change and Africa"*, ed. Pak Sum Low, Cambridge University Press.
- Heaps, C, Lazarus, M, Hill, D & Mackenzie, GA 1996, *The SEI/UNEP fuel chain project: Using the LEAP/EDB modelling system for fuel chain analysis in developing countries*. in *Electricity, health and the environment: Comparative assessment in support of decision making*. Proceedings. IAEA, Vienna, pp. 451-466. STI/PUB/975