Environmental Impact Assessment for the proposed Ubuntu Wind Energy Project near Jeffrey's Bay, Eastern Cape: Final Environmental Impact Assessment Report

APPENDICES:

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Authority

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APPENDIX A:

Curriculum Vitae: Paul Lochner and Minnelise Levendal

Environmental Impact Assessment for the proposed Ubuntu Wind Energy Project near Jeffrey's Bay, Eastern Cape: Final Environmental Impact Assessment Report

Appendix A: Curriculum Vitae

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Curriculum Vitae

Paul Lochner

Name of firm CSIR

Name of staff Paul Andrew Lochner

Profession Environmental Assessment and Management

Position in firm Project Leader in Environmental Assessment & Management

Date of birth 13 June 1969

Years with firm 18 years

Nationality South African

Biographical sketch

Paul Lochner commenced work at CSIR in 1992, after completing a degree in Civil Engineering and a Masters in Environmental Science, both at the University of Cape Town. His initial work at CSIR focused on sediment dynamics and soft engineering applications in the coastal zone, in particular, beach and dune management. He conducted several shoreline erosion analyses and prepared coastal zone management plans for beaches. He also prepared wetland management plans.

As the market for environmental assessment work grew, he led Environmental Impact Assessments (EIAs), in particular for coastal resort developments and large-scale industrial developments located on the coast; and Environmental Management Plans (EMPs), in particular for wetlands, estuaries and coastal developments. He has also been involved in researching and applying higher-level approaches to environmental assessment and management, such as Strategic Environmental Assessment (SEA). In 1998 and 1999, he coordinated the SEA research programme within the CSIR, and was a lead author of the Guideline Document

for SEA in South Africa, published jointly by CSIR and the national Department of Environmental Affairs and Tourism in February 2000.

In 1999 and 2000, he was the project manager for the legal, institutional, policy, financial and socio-economic component of the Cape Action Plan for the Environment ("CAPE"), a large-scale multidisciplinary study to ensure the sustainable conservation of the Cape Floral Kingdom. This was funded by the Global Environmental Fund (GEF) and prepared for WWF-South Africa. The study required extensive stakeholder interaction, in particular with government institutions, leading to the development of a Strategy and Action Plan for regional conservation.

In July 2003, he was certified as an Environmental Assessment Practitioner by the Interim Certification Board for Environmental Assessment Practitioners of South Africa. In 2004 he was lead author of the *Overview of IEM* document in the updated Integrated Environmental Management (IEM) Information Series published by national Department of Environmental Affairs and Tourism (DEAT). In 2004-2005 he was project manager for an Environmental and Social Impact Assessment (ESIA) conducted for a bauxite mine and alumina refinery in the Komi Republic (Russia), prepared in accordance with World Bank and EU policies, guidelines and standards.

In 2004-2005, he was part of the CSIR team that coordinated the preparation of the series of *Guidelines for involving specialists in EIA processes* prepared for the Western Cape Department of Environmental Affairs and Development Planning (DEADP); and authored the *Guideline for Environmental Management Plans* published by the Western Cape government in 2005.

Over the past 6 years has been closely involved with several environmental studies for industrial and port-related projects in Coega Industrial Development Zone (IDZ), near Port Elizabeth. This included an EIA and EMP for a proposed aluminium smelter, and assistance with environmental permit applications for air, water and waste. He has also conducted environmental assessments for port development, manganese export and rail development at the Coega IDZ and port.

He is currently leading the EIA for a desalination plant in Namibia; an EIA for a wind energy facility near Jeffreys Bay, South Africa; and an EIA for a proposed crude oil refinery at Coega.

Education

1990	B.Sc. Civil Engineering (awarded with Honours)	University of Cape Town
1992	M. Phil. Environmental Science	University of Cape Town

Employment record

January 1992 to June 1992: Completed Masters thesis, working in conjunction with the Environmental Evaluation Unit at the University of Cape Town. The thesis investigated the potential future ecological and socio-economic impacts resulting from the closure of a large diamond mining operation, and developed actions to mitigate these impacts.

October 1992 to present: Employed by the CSIR in Stellenbosch. Involved in coastal engineering studies; and various forms of environmental assessment and management studies. (A track record of experience is listed below).

PROFESSIONAL INVOLVEMENT IN COMMITTEES:

1996/97:	Committee Member of the Western Cape Branch of the International Association for Impact Assessment (IAIA)
1997/98:	Chairperson of the Western Cape Branch of IAIA and member of the national IAIA committee
1998/99:	Committee Member of the Western Cape Branch of IAIA
1996 to present:	Chairperson of the Intaka Island/Blouvlei Environmental Committee at Century City, Cape Town (This committee is tasked with overseeing the management of a wetland in the midst of a new mixed-use urban development)

Experience record

The following table presents an abridged list of projects that Paul Lochner has been involved in, indicating his role in each project:

Completion	Project description	Role	Client
Date	, ,		
2011	EIA for the proposed Ubuntu wind energy project,	Project leader	Windcurrent SA (Pty) Ltd
(in progress)	Eastern Cape, South Africa		in a Joint Venture with
			WKN Windkraft Nord AG
2011	EIA for the proposed Banna ba pifhu wind energy	Project leader	Windcurrent SA (Pty) Ltd
(in progress)	project, Eastern Cape, South Africa		in a Joint Venture with
			WKN Windkraft Nord AG
2009/2010	EIA for the proposed BioTherm wind energy	Project leader	Biotherm South Africa
(in progress)	project, Overberg region, South Africa		(Pty) Ltd
2009/2010	Basic Assessment (BA) for monitoring masts for	Project leader	Biotherm South Africa
(in progress)	the proposed Biotherm wind energy project,		(Pty) Ltd
	Overberg region, South Africa		
2009/2010	EIA for the proposed InnoWind wind energy	Project leader	InnoWind South Africa
(in progress)	project, Western Cape, South Africa		(Pty) Ltd
2009/2010	BA for the proposed InnoWind test turbines and	Project leader	InnoWind South Africa
(in progress)	monitoring masts, Western Cape, South Africa		(Pty) Ltd
2009/2010	EIA for the proposed Electrawinds Phase 2 wind	Project leader	Electrawinds N.V.
(in progress)	energy facility, Coega IDZ, Eastern Cape		(Belgium)

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Appendix A: Curriculum Vitae

Completion Date	Project description	Role	Client
2009/2010	BA for the national wind Atlas for South Africa	Project leader	SANERI and SA Wind
(in progress)			Energy Programme,
			Dept of Energy
2009/2010	EIA for the proposed Gecko soda plant,	Project leader	Gecko, Namibia
(in progress)	Otjivalunda and Arandis, Namibia		
2009	BA for the proposed Electrawinds test turbine and	Project leader	Electrawinds N.V.
	monitoring mast, Coega IDZ, Eastern Cape	•	(Belgium)
2009	EIA for the proposed desalination plant at	Project leader	NamWater, Namibia
	Swakopmund, Namibia	•	,
2009	EMP for the Operational Phase of the Berg River	Project leader and	TCTA, South Africa
	Dam, Franschoek, South Africa	report co-author	,
2009/2010	EIA for the proposed crude oil refinery at Coega,	Project leader and	PetroSA, South Africa
(in progress)	South Africa	lead author	· onoor y ooun runou
2008	Environmental Risk Review for proposed LNG/CNG	Project leader and	PetroSA, South Africa
2000	import to Mossel Bay, South Africa	lead author	r ctroom, countrinou
2008	Review of the Business Plan for catchment	Project reviewer and	TCTA, South Africa
2000	management for the Berg Water Dam Project,	co-author	TOTA, South Affica
	Franschoek, South Africa	co adinoi	
2007 – 2008	EIA for proposed Jacobsbaai Tortoise Reserve	Project Leader and	Jacobsbaai Tortoise
(in progress)	eco-development, Saldanha, Western Cape	co-author	Reserve (Pty) Ltd
2007 – 2008	Independent reviewer for the EIA proposed Amanzi	Independent	Public Process
	lifestyle development, Port Elizabeth	•	Consultants and Pam
(in progress)	linestyle development, Port Elizabeth	reviewer appointed to advise EAP	Golding
2007 – 2008	EIA for proposed Kouga wind energy and pumped		
(in progress)	storage scheme, Eastern Cape	Project Leader and co-author	Genesis Eco-Energy
			Dant of Environmental
2007	Review of EIA for the proposed Hanglip Eco-	Co-author of review	Dept of Environmental
	Development, Plettenberg Bay, Western Cape	of EIA, undertaken	Affairs & Development
0000 0007	For the second of the second o	on behalf of DEADP	Planning, Western Cape
2006-2007	Environmental Impact Assessment for the	Project Leader and	Eskom and iGas
(in progress)	proposed Coega LNG-to-Power Project at the Port	co-author	
2000 2007	of Ngqura, Coega IDZ		D ((M)
2006-2007	Guideline for Scoping, Environmental Impact	Project leader and	Dept of Minerals and
(in progress)	Assessment and Environmental Management Plans	co-author	Energy (DME), South
	for mining in South Africa		Africa
2006	Environmental Impact Assessment (EIA) for the	Project Leader and	Transnet
	extension of the Port of Ngqura, Eastern Cape	co-author	
2006	Integrating Sustainability Into Strategy: Handbook	Project Leader and	CSIR (STEP research
	(Version 1)	co-author	report)
2005	Technology Review for the proposed aluminium	Project Leader and	Alcan, Canada
	smelter at Coega, South Africa	lead author	
2005	Environmental and Social Impact Assessment	Project manager and	Komi Aluminium, Russia
	(ESIA) report for the proposed alumina refinery near	co-author	IFC, EBRD
	Sosnogorsk, Komi Republic, Russia		
2005	Guideline for Environmental Management Plans	Author	Dept of Environmental
	(EMPs) for the Western Cape province, including		Affairs & Development
	conducting a training course for provincial government		Planning, Western Cape
2005	Guideline for the review of specialist studies	Member of Steering	Dept of Environmental
	undertaken as part of environmental assessments	Committee and	Affairs & Development
		project facilitator	Planning, Western Cape
2004	Review of Strategic Management Plan for Table	Reviewer and co-	South African National
	Mountain National Park (2001-2004)	author	Parks

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Appendix A: Curriculum Vitae

Completion Date	Project description	Role	Client
2004	Strategic Needs Assessment Process for mainstreaming sustainable development into business	Researcher and co- author	CSIR (internal research)
	operations		
2004	Environmental Monitoring Committees booklet in	Contributing author	Department of
	the IEM Information Series for DEAT		Environmental Affairs
			and Tourism (DEAT)
2004	Overview of Integrated Environmental	Lead author and	DEAT
	Management (IEM) booklet in the IEM Information	researcher	
	Series		
2003	Environmental Screening Study for gas power	Project Manager and	Eskom, iGas and Shell
	station, South Africa	lead author	,
2003	Environmental Management Programme (EMP)	Project Manager and	Pechiney, France
2000	Framework for the proposed Coega Aluminium	lead author	r dorinitoy, r rantoo
	Smelter; and assistance with preparing permit and	icaa aainoi	
	licence applications		
2003	Environmental Management Plan for the	Project leader and	Century City Property
2003	_	lead author	Owners' Association
	Operational Phase of the wetlands and canals at	ieau autrioi	OWINERS ASSOCIATION
2002	Century City, Cape Town	Dusingt Manager and	Dackins, France
2002	Environmental Impact Assessment for the proposed	Project Manager and	Pechiney, France
	Pechiney aluminium smelter at Coega, South Africa	lead author	
2002 - 2003	Research project: Ecological impact of large-scale	Project Manager	Water Research
	groundwater abstraction on the Table Mountain Group		Commission
	aquifer		
2002	Environmental Management Plan for the Eskom	Co-author	Eskom
	Wind Energy Demonstration Facility in the Western		
	Cape		
2001-2002	Environmental Impact Assessment for the Eskom	Quality control & co-	Eskom
	Wind Energy Demonstration Facility in the Western	author	
	Cape		
2001	Environmental Due Diligence study of four strategic	Project manager and	SFF Association
	oil storage facilities in South Africa	co-author	
2000	Cape Action Plan for the Environment: a	Project manager and	World Wide Fund for
	biodiversity Strategy and Action Plan for the Cape	contributing writer	Nature (WWF): South
	Floral Kingdom - legal, institutional, policy, financial	-	Africa
	and socio-economic component		
1999	Environmental Management Plan for the	Project manager and	Monex Development
	establishment phase of the wetlands and canals at	lead author	Company
	Century City, Cape Town	1000 001101	
1999	Environmental Management Programme for the	Process design and	Chris Mulder Associates
1000	Thesen Islands development, Knysna	Co-author	Inc; Thesen and Co.
1999	Management Plan for the coastal zone between the	Project manager and	Heartland Properties and
1999	Eerste and Lourens River, False Bay, South Africa	lead author	Somehem (a Division of
	Lerste and Lourens River, False Bay, South Anica	ieau autrioi	
4000	Fusing months Approximated the Manual March	Duele et mer : : : : : !	Denel)
1998	Environmental Assessment of the Mozal Matola	Project manager and	SNC-Lavalin-EMS
	Terminal Development proposed for the Port of	author.	
	Matola, Maputo, Mozambique		
1998	Strategic Environmental Assessment (SEA) for the	Project manager and	Somchem, a Division of
	Somchem industrial complex at Krantzkop, South	co-author	Denel
	Africa		
1997	Strategic Environmental Assessment (SEA) for the	SEA project manager	Coega IDZ Initiative
	proposed Industrial Development Zone and Harbour at	and report writer	Section 21 Company

Appendix A: Curriculum Vitae

Date	Project description	Role	Client
	Coega, Port Elizabeth, South Africa		
1996	Environmental Impact Assessment of Development	Project manager and	Thesen and Co.
	Scenarios for Thesen Island, Knysna, South Africa	report writer	
1996	Environmental Impact Assessment of the	Project manager and	Ilco Homes Ltd (now
	Management Options for the Blouvlei wetlands, Cape	report writer	Monex Ltd)
	Town		
1995	Environmental Impact Assessment for the	Report writing and	Saldanha Steel Project
	Saldanha Steel Project, South Africa	management of	
		specialist studies	
1994	Environmental Impact Assessment for the	Member of the	Schneid Israelite and
	upgrading of resort facilities on Frégate Island,	project management	Partners
	Seychelles	team, co-author,	
		process facilitator	
1994	Environmental Impact Assessment for exploration	Project manager and	Chevron Overseas
	drilling in offshore Area 2815, Namibia	co-author	(Namibia) Limited
1994	Management Plan for the Rietvlei Wetland Reserve,	Project manager and	Southern African Nature
	Cape Town	lead author	Foundation (now WWF-
			SA)
1993	Beach management plan for Stilbaai beachfront and	Project manager and	Stilbaai Municipality
	dunes, South Africa	lead author	
1993	Beach and dune management plan for Sedgefield	Project manager and	Nel and De Kock
	for the beach east of the mouth of the Swartvlei	lead author	Planners, George
	estuary		
1993	Coastal Stability analysis and beach management	Project manager and	Milnerton Municipality
	plan for the Table View coastline north of Blaauwberg	lead author	
	Road, Cape Town		

Publication record

A comprehensive list of publications, book chapters and contract reports is available upon request, with a summary provided below.

Publications in journals, peer reviewed conference proceedings and CSIR internal research reports:

Lochner P, Munster F and Burns M, 2006. Integrating Sustainability into Strategy (ISIS): a process to inform sustainability strategies and frameworks, *In:* IAIA South Africa Annual Conference proceedings, South Africa.

Rossouw N and Lochner P, 2006. Environmental Monitoring Committees (EMCs): purpose, function and structure. *In:* IAIA South Africa Annual Conference proceedings, South Africa.

Munster F and Lochner P, 2006, Integrating Sustainability Into Strategy: Handbook (Version 1) – describing a process to inform sustainability strategies, frameworks and reports, *CSIR Report ENV-S-I 2005-001*, ISBN 0-7988-5560-6, Stellenbosch.

Van Zyl H, de Wit M, Munster F, Lochner P, Gerber G, 2005. Economics in Environmental Impact Assessment: demystifying the theory and practice, *In:* Conference Proceedings of the IAIA South Africa 2005 Annual National Conference. South Africa.

Lochner P, Weaver A, Gelderblom C, Peart R, Sandwith T and Fowkes S, 2003. Aligning the diverse: the development of a biodiversity conservation strategy for the Cape Floristic Region. *Biological Conservation Vol. 112, ISSN:* 0006-3207.

Lochner P, Münster F, Msutu M, Wren S, 2003. The role of stakeholder engagement in the EIA for the Coega Aluminium Smelter. *In:* Conference Proceedings of the IAIA South Africa 2003 Annual National Conference. ISBN 1-919891-04-8. South Africa.

Lochner P, Brooks W, Pesch P & Münster M. 2003, Stakeholder engagement process in the EIA of an aluminium smelter, Published in *Light Metals* 2003 (Ed. Paul Crepeau), Published by TMS (the Minerals, Metals & Materials Society), ISBN Number 0-87339-531-X, USA.

Rossouw N, Audouin M, Lochner P, Heather-Clark S and Wiseman K, 2000. Development of strategic environmental assessment in South Africa. *Impact Assessment and Project Appraisal.* Vol 18, no. 3, pp 217-223. United Kingdom.

Lochner P and Fowkes S, 2000. Building partnerships for the conservation of the biodiversity of the Cape Floral Kingdom: experiences and lessons learnt from the Cape Action Plan for the Environment. IAIA-SA Conference Proceedings 2000. South Africa.

Lochner P and Rossouw N, 1997. The development of an Environmental Management Plan for incorporating a wetland into a large mixed use development: the Century City example. IAIA-SA Conference Proceedings 1997. South Africa.

Language capability

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Afrikaans	Average	Average	Average

Paul Lochner August 2011 Environmental Impact Assessment for the proposed Ubuntu Wind Energy Project near Jeffrey's Bay, Eastern Cape: Final Environmental Impact Assessment Report

Appendix A: Curriculum Vitae

CSIR Jan Cilliers Street PO Box 320 Stellenbosch 7600 South Africa Phone: +27 21 888 2400 Fax: +27 21 888 2693 Email: mlevendal@csir.co.za



Curriculum Vitae

Minnelise Rouchelle-Ann Levendal

Name of firm CSIR

Name of staff Minnelise Levendal

Profession Environmental Assessment and Management

Gender: Female

Years with firm Seven years

Nationality South African

Languages Afrikaans and English

CONTACT DETAILS:

Postal Address: P O Box 320, Stellenbosch, 7599

Telephone Number: 021-888 2495/2661

Cell: 0833098159 **Fax:** 0865051341

e-mail: mlevendal@csir.co.za

EDUCATION

•	M.Sc. (Botany)	Stellenbosch University	1998
•	B.Sc. (Hons.) (Botany)	University of the Western Cape	1994
•	B.Sc. (Education)	University of the Western Cape	1993

MEMBERSHIPS:

- International Association for Impact Assessment (IAIA), Western Cape (member of their steering committee from 2001-2003)
- IUCN Commission on Education and Communication (CEC); World Conservation Learning Network (WCLN)
- American Association for the Advancement of Science (AAAS)
- Society of Conservation Biology (SCB)

EMPLOYMENT RECORD:

- 1995: Peninsula Technicon. Lecturer in the Horticulture Department.
- 1996: University of the Western Cape. Lecturer in the Botany Department.
- 1999: University of Stellenbosch. Research assistant in the Botany Department
- (3 months)
- 1999: Bengurion University (Israel). Research assistant (Working in the Arava valley, Negev

 Israel; 2 months). Research undertaken was published (see first publication in publication list)
- 1999-2004: Assistant Director at the Department of Environmental Affairs and Development Planning (DEA&DP). Work involved assessing Environmental Impact Assessments and Environmental Management Plans; promoting environmental management and sustainable development.
- 2004 to present: Employed by the CSIR in Stellenbosch:
- September 2004 May 2008: Biodiversity and Ecosystems Services Group
- May 2008 to present: Environmental Management Services Group (EMS)

PROJECT EXPERIENCE RECORD:

The following table presents a list of projects undertaken at the CSIR as well as the role played in each project:

Completion Date	Project description	Role	Client
2011 (in progress)	EIA for the proposed Ubuntu wind energy project, Eastern Cape, South Africa	Project Manager	Windcurrent SA (Pty) Ltd in a Joint Venture with WKN Windkraft Nord AG
(in progress)	EIA for the proposed Banna ba pifhu wind energy project, Eastern Cape, South Africa	Project Manager	Windcurrent SA (Pty) Ltd in a Joint Venture with WKN Windkraft Nord AG
2011 (in progress)	BA for a powerline near Swellendam	Project Manager	BioTherm Energy (Pty Ltd
2010 (in progress)	EIA for a proposed wind farm near Swellendam in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd
2010 BA for a powerline as part of the proposed wind farm project near Swellendam in the Western Cape		Project Manager	BioTherm Energy (Pty Ltd
2010 (complete)	Basic Assessment for the erection of two wind monitoring masts near Swellendam and Bredasdorp in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd
2010 (complete)	EIA for the erection of two wind monitoring masts near Jeffrey's Bay in the Eastern Cape	Project Manager	Windcurrent (Pty Ltd

Completion Date	Project description	Role	Client
2010 (in progress)	EIA for a proposed wind farm near Jeffrey's Bay in the Eastern Cape		
2010 (complete)	Basic Assessment Process for the proposed erection of wind monitoring masts as part of the national wind atlas project	Project Manager	Department of Energy and SANERI
2010 (complete)	South Africa's Second National Communication under the United Nations Framework Convention on Climate Change	Project Manager	SANBI
2009 (complete)	Basic Assessment Report for a proposed boundary wall at the Port of Port Elizabeth, Eastern Cape	Project Manager	Transnet Ltd
2008	Developing an Invasive Alien Plant Strategy for the Wild Coast, Eastern Cape, South Africa	Co-author	Eastern Cape Parks Board
2006-2008	Monitoring and Evaluation of aspects of Biodiversity	Project Leader	Internal project awarded through the Young Researchers Fund
2006	Integrated veldfire management in South Africa. An assessment of current conditions and future approaches.	Co- author	Working on Fire
2004-2005	Biodiversity Strategy and Action Plan Wild Coast, Eastern Cape, SA	Co-author	Wilderness Foundation
2005	Western Cape State of the Environment Report: Biodiversity section. (Year One).	Co- author and Project Manager	Department of Environmental Affairs and Development Planning

PUBLICATIONS:

Bowie, M. (néé Levendal) and Ward, D. (2004). Water status of the mistletoe Plicosepalus acaciae parasitic on isolated Negev Desert populations of Acacia raddiana differing in level of mortality. Journal of Arid Environments 56: 487-508.

Wand, S.J.E., Esler, K.J. and **Bowie, M.R** (2001). Seasonal photosynthetic temperature responses and changes in ¹³C under varying temperature regimes in leaf-succulent and drought-deciduous shrubs from the Succulent Karoo, South Africa. South African Journal of Botany 67:235-243.

Bowie, M.R., Wand, S.J.E. and Esler, K.J. (2000). Seasonal gas exchange responses under three different temperature treatments in a leaf-succulent and a drought-deciduous shrub from the Succulent Karoo. South African Journal of Botany 66:118-123.

LANGUAGES

Language	Speaking	Reading	Writing
English	Good	Good	Good
Afrikaans	Excellent	Excellent	Excellent

Minnelise Levendal

Mevendo

August 2011