

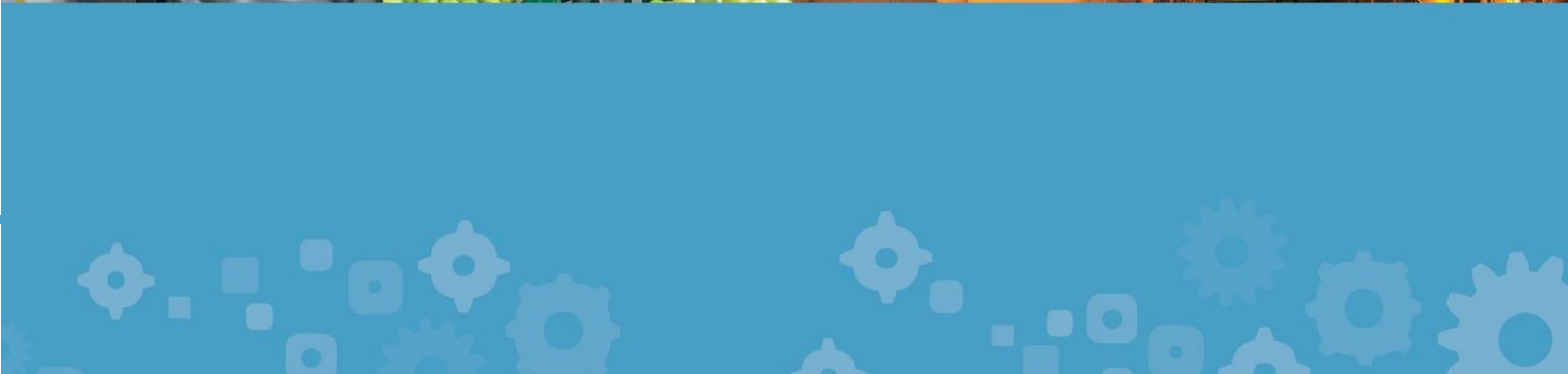
CONFERENCE PROGRAMME

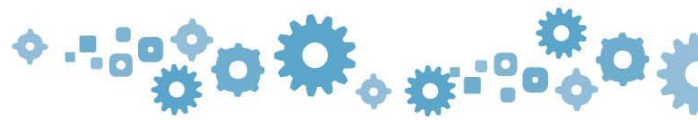
manufacturing
indaba KWAZULU-NATAL



NCPC
NATIONAL CLEANER PRODUCTION CENTRE
— SOUTH AFRICA —

21 – 22 July 2015 . ICC . Durban . South Africa





Day 1: 21 July

07:30 – 08:30 Registration

Session 1: Opening Plenary (Hall 2C)

Opening plenary, keynote addresses and panel discussion in partnership with Manufacturing Indaba

	Topic / item	Speaker / format
08:30	Welcome by Programme Director	JD Mdu
08:40	Welcome by the NCPC-SA	Ndivhuho Raphulu, Director NCPC-SA
09:00	Welcome by KZN Province	Premier Edward Senzo Mchunu - KwaZulu-Natal Province
09:30	Key-note address by the dti	Dr Tebogo Makube - the dti
10:00	Keynote address	Stavros Nicolau, Aspen Pharmacare
10:30	Tea	
11:00 – 12:00	Panel discussion – industry perspectives <i>The business case for resource efficiency and sustainability: increased profitability through greener production.</i>	Representatives of leading manufacturers
12:15	Lunch	

Sessions 2 and 3: Day 1

13:00 – 14:30 and 15:00 – 16:30

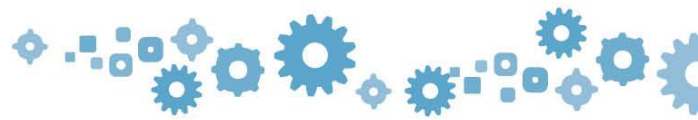
Manufacturing Indaba KwaZulu Natal	<i>Plenary Hall 2C</i>
NCPC-SA Workshop: Waste and Industrial Symbiosis	<i>Breakaway Room Hall 2D</i>
NCPC-SA Workshop: Energy Efficiency	<i>Meeting Room 12AB</i>
Global Cleantech Innovation Programme Workshop	<i>Meeting Room 12CD</i>

Session Outlines - Day 1

Energy Efficiency	Industrial Energy Efficiency Project in South Africa (IEE Project) <i>National Cleaner Production Centre, South Africa and United Nations Industrial Development Organization (UNIDO)</i>
<p>It has been demonstrated time and again that energy efficiency saves industrial firms money, increases the reliability of operations and has a positive effect on productivity and competitiveness.</p> <p>Since 2010, the Industrial Energy Efficiency Project (IEE Project) in South Africa has assisted industry to save over R 759 million in energy savings through the implementation of Energy Management Systems (EnMS) and Energy Systems Optimisation (ESO) in around 80 industry plants.</p> <ul style="list-style-type: none"> • 13:00 – 14:30 Industrial Energy Efficiency, Setting the Scene: During this session, IEE Project implementation team from the NCPC-SA will outline practical guidelines to saving energy in large and small industrial companies. • 15:00 – 16:30 The Biggest Loser - Industrial Energy Efficiency Case Studies in an interactive session, representatives of companies that have saved energy by participating in the IEE Project will share their lessons and successes 	
Waste Management and industrial Symbiosis	National Cleaner Production Centre, South Africa National Industrial Symbiosis Programme (NISP): <i>NCPC-SA, GreenCape, Trade & Investment KZN</i>
<p>Gone are the days where waste management meant disposing of waste at landfills. Waste has an impact on the bottom line as well as the environment and it is important to take action to reduce the amount of waste and the toxicity of waste requiring disposal. Action in the form of waste prevention, recycling, composting and the purchase and manufacture of goods that have recycled content or produce less waste.</p> <p>Industrial Symbiosis is another resource efficiency approach that reduces the amount of waste; where unused or residual resources (materials, energy, water, waste, assets, logistics, expertise, etc.) of one company are used by another. This results in mutual economic, social and environmental benefits.</p> <p>The Waste Management and Industrial Symbiosis track will discuss the national context of waste management policy and practices and will, explore industrial symbiosis as a tool for achieving waste minimisation whilst promoting resource efficiency and realising associated mutual economic, social and environmental benefits.</p> <ul style="list-style-type: none"> • 13:00 – 14:30 Waste Management: An overview on waste policy and support mechanisms from government and the R&D community • 15:00 – 16:30 Industrial Symbiosis: Business opportunities through industrial waste: This session will give an overview of IS and unpack the opportunities and successes of the various IS Programmes in Western Cape, KZN and Gauteng. 	
Clean technology and entrepreneurship in the green economy	Global Cleantech Innovation Programme (GCIP): <i>Technology Innovation Agency (TIA and United Nations Industrial Development Organization (UNIDO)</i>
<p>The Global Cleantech Innovation Programme (GCIP) for SMEs is a global initiative with the goal of promoting clean technology innovation and supporting Small and Medium-size Enterprises (SMEs) and start-ups. The GCIP is a United Nations Industrial Development Organisation (UNIDO) and the Global Environment Facility (GEF) initiative, hosted and jointly implemented in South Africa by the Technology Innovation Agency (TIA).</p> <p>First implemented in South Africa by UNIDO in 2011, the initiative aims to spur on local innovations in energy efficiency, renewable energy, waste beneficiation, and water efficiency; maximizing every participant's chances of being successful in the programme and raising their probability of achieving sustainable commercial success. The GCIP combines a competition and a business accelerator programme to offer participants extensive mentoring, training, access to investors and opportunities to showcase their innovations to the media and the public.</p> <p>This session will focus on exploring key success factors for a Cleantech business in South Africa.</p>	
Manufacturing Indaba KwaZulu Natal	<i>Manufacturing Indaba, Manufacturing Circle, the dti</i>

Day 1 – Detailed Breakaway Programme

13:00	Manufacturing Indaba (Plenary venue)	Industrial Symbiosis & Waste Management (Hall 2D) <i>Hosts: Pearl Thusi, NCPC-SA Kevin Cilliers, NCPC-SA</i>	Energy Efficiency (Meeting Room 12AB) <i>Hosts: Faith Mkhacwa, NCPC-SA Ngoanathari Maja, NCPC-SA</i>	Cleantech & Entrepreneurship (Meeting Room 12CD) <i>Facilitator(s): Gerswynn Mckuur, TIA Lee-Hendor Ruiters, NCPC-SA</i>
13:00 – 14:30	<p>Keynote Address Jonker Sailplane Journey - Uys Jonker – Jonker Sailplanes</p> <p>Keynote Address Jan Wessels - Denel SOC</p> <p>Keynote Address Industrial Financing, Incentives and Private Sector Investment Duane Newman – Cova Advisory</p>	<p>Session 1: Waste Management</p> <p>The Waste Management Bureau, pricing strategies and waste regulations - Anben Pillay, Department of Environmental Affairs, Waste Bureau</p> <p>DEA's Industry Support Initiative - Derrick Makhubele, Department of Environmental Affairs</p> <p>The importance of research, development and innovation in transforming the South African waste sector - Linda Godfery, CSIR</p> <p>Panel Q&A</p>	<p>Session 1: Industrial Energy Efficiency – setting the scene <i>Industrial Energy Efficiency Project, SA</i></p> <p>Welcome and introduction: Faith Mkhacwa, Project Manager, NCPC-SA</p> <p>Overview of Industrial Energy Efficiency and the IEE Project – Alf Hartzenburg, IEE Project National Project Manager, NCPC-SA</p> <p>ISO 50001 and related standards as a saving tool - Hemant Grover, Technical Manager, NCPC-SA</p> <p>Energy Management Systems and Behavioural Change – Milisha Pillay, Project Manager, NCPC-SA</p> <p>Energy Systems Optimisation in industry - Ajay Trikam, Project Manager, NCPC-SA</p>	<p>Entrepreneurship in the green economy <i>Global Cleantech Innovation Programme</i></p> <p>This session will provide practical business development information for entrepreneurs of clean technology.</p> <p><i>Hosted by the Global Cleantech Innovation Programme, presented in South Africa by the Technology Innovation Agency (TIA) in partnership with UNIDO</i></p>
14:30	Tea (25 min)			
15:00 – 16:30	<p>Localisation for Supply Chain Development and Local Production</p> <p>Panel Members: <i>Ashley Bhugwandin - TLIU Adv Leslie Sedibe – Proudly SA Dumile Cele – Durban Chamber Sello Mosai – Productivity SA Prasheen Maharaj – South African Shipyards</i></p>	<p>Session 2: Industrial Symbiosis: Business opportunities through industrial waste <i>Panel of National IS strategy and steering committee members</i> Facilitator: Kevin Cilliers, Regional Manager KZN, NCPC-SA</p> <p>Overview of the National Industrial Symbiosis Strategy (NISP) – Victor Manavhela, Regional Manager (Gauteng), NCPC-SA</p> <p>Industrial Symbiosis Opportunities In KZN (KISP) Trade and Investment KwaZulu Natal</p> <p>Successes from the national pilot project in the Western Cape (WISP) – GreenCape Case studies (Western Cape): Desmond Deary, ComboTimber Structures Chris Whyte, Use-It</p> <p>Update on progress in Gauteng (GISP) - Henry Nuwarinda Case study (Gauteng) – Mark Booth, Clear Sky Energy</p>	<p>Session 2: The Biggest Loser - Industrial Energy Efficiency Case Studies <i>Industrial Energy Efficiency Project, SA</i></p> <p>An interactive session with representatives of companies that have implemented energy management systems (EnMS) and energy systems optimisation (ESO) and saved significant amounts of energy.</p> <p>Toyota (Arden Wessels) Johnson Matthey SA (Gavin Puckle) King Shaka International Airport (Jerusha Joseph) St Gobain (Lisa Reynold) ArcelorMittal (Reinette van Zyl)</p> <p>Facilitators: Ngoanathari Maja – Project Manager, NCPC-SA Sheldon Bode – UNIDO Expert (EnMS and CASO)</p>	<p>Entrepreneurship in the green economy <i>Global Cleantech Innovation Programme</i></p>



Day 2: 22 July

07:30 – 08:30 Registration

Session 1: Day 2 Plenary (Hall 2C)

Setting the scene and keynote address by Department of Environmental Affairs

	Topic / item	Speaker / format
08:30	Welcome by Programme Director	JD Mdu
08:40	Keynote address	Mr Tlou Ramaru, Chief Policy Advisor – Sustainable Development, National Department of Environmental Affairs

Sessions 2, 3 and 4: Day 2

09:15 – 10:45 / 11:15 – 12:45 / 13:30 – 15:00

The Green Fund and green funding – Department of Environmental Affairs (DEA)	<i>Plenary Hall 2C</i>
Establishment of a Professional Body for Resource Efficiency Practitioners	
NCPC-SA Workshop: Energy Efficiency and Sustainable Energy	<i>Meeting Room 12AB</i>
NCPC-SA Workshop: Water Efficiency and Water Footprinting	<i>Breakaway Room Hall 2D</i>
Sustainable transport in an emerging and developing economy - United Nations industrial Development Organization (UNIDO)	<i>Meeting Room 12AB</i>
Tools for a green economy: <ul style="list-style-type: none"> • Productivity as a tool for sustainable industrial development - Productivity SA • Localisation & Innovation as key drivers for sustainable industry - Technology Localisation Innovation Unit (TLIU) • Buying local along the supply chain 	<i>Meeting Room 12CD</i>

Session 5: Closing Plenary (Hall 2C)

	Topic / item	Speaker / format
15:15	Keynote address	KwaZulu-Natal Province
15:45	Vote of thanks	Ndivhuho Raphulu, NCPC-SA Director

Day 2 – Detailed Breakaway Programme

09:15	Green Funding (Plenary Hall 2C) <i>Hosts:</i> Ndivhuho Raphulu, Director, NCPC-SA Tlou Ramaru, DEA	Water Efficiency and Water Footprinting (Hall 2D breakaway) <i>Hosts: Kevin Cilliers, NCPC-SA Bianca Latchman, NCPC-SA Andre Page, NCPC-SA</i>	Energy Efficiency and Sustainable Energy <i>Hosts: Dr Mkhul Mathe, CSIR Sashay Ramdharee, NCPC-SA</i>	Productivity and Localisation (Meeting Room 12CD) <i>Hosts: Mbali Hadebe, NCPC-SA</i>
09:15 – 10:45	The Green Fund and Green Funding – Department of Environmental Affairs Panel Discussion Topic: Progress and Lessons from the Green Fund - “Impacts of Investment” - <i>Olympus Manthata Green Fund Manager, Development Bank of Southern Africa</i> Topic: Progress and Lessons from the Renewable Energy Independent Power Project Procurement Program “Impacts of Investments” - <i>REIPPP</i> IDC presentation: <i>Development funding towards green industrialisation: through Innovation - Tony Nkuna, Industrial Development Corporation (IDC)</i>	Session 1: Water policy and the state of water Water Sector Overview: Moving towards a water sensitive society – Water Research Commission (Dr Valerie Naidoo) Adopting a Sector Specific Implementation Strategy to Water Management in SA – Department of Water Affairs Industry Approach and Response to attaining Water Security and Business Continuity – National Business Initiative: Climate Change & Water Programme (Mr Alex Mnamara) Managing water along the supply chain: Water Footprinting - Dr Nydia Suppen (Mexico), World Leader on Water Footprinting	Session 1: The big picture – energy policy and national context <i>Presentations by a panel of national energy specialists</i> Energy Efficiency and the Bigger Picture, with a focus on Incentives – Barry Bredenkamp, SANEDI Energy Efficiency Indicators: Foundation of Energy Efficiency Policy Development – Dr Rebecca Maserumule, Department of Energy Missed opportunities in energy efficiency: policy overview - Sisa Nijikelana (former Chair: Parliamentary Portfolio Committee on Energy)	Session 1: Productivity as a tool for sustainable industrial development <i>Host - Productivity SA</i> Enhancing and accelerating the industrial development of economies - Sello Mosai, Productivity SA
10:45	Tea			
11:15 - 12:45	The Green Fund and Green Funding – Department of Environmental Affairs It’s the economy, stupid - “A Platform for further consultation” - Landscape of Green Economy finance in South Africa – Steve Nicholls, National Business Initiative (NBI) Green Fund Research and Development Findings <ul style="list-style-type: none"> Development of bio-based nano-composite products reinforced with agricultural wastes and will test its application in the green buildings and automotive industries. <i>Dr Sudhakar Muniyasamy, University of Stellenbosch</i> 	Session 2: Water use by industry Within the factory boundary - Dr Valerie Naidoo, Research Manager, Water Research Commission Waste Water Charges and Treatment – eThekweni Water & Sanitation Unit: Pollution & Environment Branch (Chris Fennemore) Case Study: Sunningdale Dairy (Mr Pierre van Rensburg)	Session 2: Opportunities for energy supply side <i>Co-facilitators:</i> <i>Hemant Gover, NCPC-SA Alf Hartzenburg, NCPC-SA (IEE Project)</i> Status of South Africa’s alternative energy options – Stephen Koopman, CSIR Energy Centre ESKOM: load used as an operational reserve during a supply constraint - Ferdi Bekker, Eskom Co-generation in partnership with	Session 2: Localisation & Innovation as key drivers for sustainable industry <i>Co-host: Technology Localisation Innovation Unit (TLIU)</i> Overview of localisation challenges and options along the value chain - Ashley Bhugwandin, Programme Manager, TLIU Incubation in addressing the Localisation Challenges - Jayesh Ravjee, Operations Manager, TLIU

	<ul style="list-style-type: none"> Develop a realisable generator technology that may improve the modern wind turbine drive-train. Specifically the project involves the construction and testing of a 50 kW generator prototype. <i>Dr Mohsen Ali Mandegari: University of Stellenbosch</i> 		government: South Africa Calcium Carbide-IDC-Newcastle Local Municipality <i>Sisa Nijikelana, Independent Power Producers' Association</i>	
12:45	Lunch			
13:30	RECP Professional Body (Plenary Hall 2C) <i>Host: Brent Goliath NCPC-SA</i>	Water Efficiency and Water Footprinting (Hall 2D breakaway) <i>Host: Andre Page, NCPC-SA</i>	Sustainable transport in an emerging and developing economy <i>Hosts: Claudia Giacobelli, UNIDO Limpho Malebo, NCPC-SA</i>	Buying Local (Meeting Room 12CD) <i>Host: Victor Manavhela, NCPC-SA</i>
13:30 – 15:00	Establishment of a Professional Body for Resource Efficiency Practitioners Developing skills in resource efficiency: overview of opportunities and developments – Wynand van der Merwe, Skills Development Manager, NCPC-SA The Business Case for the establishment of a Professional Body for Resource Efficiency Practitioners – Enterprise Creation for Development (ECD), CSIR Panel discussion: the roadmap to a professional body – SAEE, SANEDI, Eskom, NCPC-SA, MIEO, SAIMEchE	Industry case study – Andre Page, Project Manager, NCPC-SA Water Footprinting: International practices – UNEP and Dr Nydia Suppen (Mexico)	Panel Discussion: Sustainable transport in an emerging and developing economy <i>Facilitator: eThekweni Municipality (tbc)</i> <i>Hosted by: United Nations industrial Development Organization (UNIDO) in partnership with South African National Energy Development Institute (SANEDI)</i> <i>Panellist: Mr. Carel Snyman(SANEDI), Ms. Gail Jennings (Cycle Map), Mr. Andrew Wheeldon (Bicycle Cities), Mr. Winstone Jordaan (Grid Cars), Mr. Edwin Matlou (NISSAN), Mr. Neil du Preez (Mellowcabs)</i> What are the key needs and gaps for developing an eco-system in SA for the uptake of energy efficient and low carbon transportation, from a policy perspective, all the way through to the point of view of local manufacturers and users.	Session 3: Buying local along the supply chain Presentation by Advocate Leslie Sedibe, CEO, Proudly South African
15:00 – 15:30	Closing Plenary			
	Closing remarks and vote of thanks		Director, NCPC-SA – Ndivhuho Raphulu	

Thank you to

