



PROGRAMME



**MOVING ON
RESILIENCE WITH ENERGY EFFICIENCY**



2021SAEEC CONFERENCE
PROGRAMME

3 - 5 NOVEMBER 2021

WELCOME

Welcome Message: From the SAEEC President

Greetings all,

It's my pleasure, as current President, to walk you through the Southern African Energy Efficiency Confederation's annual conference. We at the association are excited and can't wait to introduce you to the speakers and delegates. They have come from all over the World to share their knowledge and awaken our energy horizons.



Our conference ambitions started around 2002, almost 19 years back in a time where the internet was just a luxury for many people. This year, in the interest of your safety, our planning and feedback from members, we are proud to host our second conference where the entire conference will be delivered digitally.

The conference boasts representation from government, private and public companies, financial service providers, educators, technology providers, energy saving companies, universities and individuals filled with a passion for sustainability. We welcome 14 female speakers, two of these ladies from Africa – Kenya and Zimbabwe, from Europe we have representatives from DANFOSS Denmark and a Lighting specialist from India. With over 35 technical papers to be presented and published in the GO2Energy Technical journal, it promises to be a truly national conference in spirit.

The theme for this e-conference is Moving on: Resilience with efficiency. As the whole World prepares for a political COP 26 next month with firm commitments to net-zero targets, we acknowledge that we are also still recovering from a pandemic. Here in South Africa you can add energy shortages, water cuts and rebuilding a nation in the aftermath of the July riots. The focus, as we move forward towards ambitious global targets, should be on how we re-build, which technologies should be embraced, which regulations or policies need revision and how do we create opportunities, businesses and drive the economy justly.

We are proud to announce that the Honourable Thuli Madonsela, Law Trust Chair in Social Justice and Law Professor at the University of Stellenbosch; Ms. Lethabo Manamela, CEO of SANEDI and Mr. Oresti Patricios, CEO Ornico Group will open our conference proceedings.

Last but not the least, a big thank you to all the delegates, e-conference partners, sponsors and staff who make the event possible.

Looking forward to your virtual presence and real contributions.

A handwritten signature in black ink that reads "Keith B. Cassie". The signature is written in a cursive, flowing style.

Keith B. Cassie

President: Southern African Energy Efficiency Confederation

2021SAEEC CONFERENCE

KEYNOTE

3 - 5 NOVEMBER 2021



Mr. Keith Cassie

MSc Mech Eng., Pr.Eng., CEM®, Net-Zero AP., WELL AP™

President, Southern African Energy Efficiency Confederation (SAEEC)

Serving in his second term as President of the SAEEC, Keith also leads the direct impact carbon strategy for Standard Bank. A strong background in engineering with experience from energy intensive metal smelting industries to gas and renewable plant design supports his passion to deliver a net-zero carbon sustainable future.



The Honourable THULI MADONSELA

THE HONOURABLE THULISILE MADONSELA, an advocate of the High Court of South Africa, is the Law Trust Chair in social justice and law professor at the University of Stellenbosch. She is the founder of the Thuma Foundation. She is a multiple award-winning legal professional with over 50 national and global awards.

The Honourable Madonsela has been named one of Time Magazine's 100 Most Influential People in the world in 2014 and receiving many further recognitions worldwide. She is one of the drafters of South Africa's Constitution, and co-architect of several laws that have sought to anchor South Africa's democracy.



Ms. Lethabo Manamela CEO SANEDI.

Ms. Lethabo Manamela is the interim CEO of the South African National Energy Development Institute (SANEDI). She joined SANEDI as the CFO and her passion for the energy sector coupled with her business acumen led to her appointment as interim CEO.

She has recently successfully completed the Green Energy Finance Specialist advance course through the International Renewable Energy Academy (RENAC), and with this she aims to put this knowledge into good use and practice. She firmly believes there are many opportunities for young people and female entrepreneurs who can contribute to solutions to the SA energy crisis.



Mr. Oresti Patricios : CEO ORNICO GROUP

ORESTI PATRICIOS, is an entrepreneur, visionary and risk taker, who started his first media business in 1979. He was awarded in 1996, the Young Entrepreneur of the Year Award by then President Nelson Mandela. He likes to push boundaries, challenges existing ideas, and inspires his colleagues and peers to embrace growth in Africa.

He is the CEO of ORNICO which he founded in SA in 1984, and it is a leading Pan-African provider of reputation, media, advertising and brand research. He serves on several SA and global Industry bodies : SAMMA, PAMRO, FIBEP and the IAB South Africa.

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3 NOVEMBER 2021

MOVING ON - RESILIENCE WITH ENERGY EFFICIENCY

Opening Session | M&V | All about Carbon | Sustainable Generation



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09:00 - 10:45
OPENING SESSION
AFRICAN RESILIENCE

Keith Cassie,
SAEEEC President, to
open the 2021 SAAE-
Conference and
welcome the
attendees and
speakers and
introduce the guest
speakers

The Honourable
Thuli Madonsela,
Advocate, Law Trust
Chair in Social Justice
and Law Professor at
the University of
Stellenbosch

Lethabo Manamela:
CEO, SANEDI

Oresti Patricios:
CEO, ORNICO GROUP

PANEL DISCUSSION:
The Honourable
Thuli Madonsela,
Lethabo Manamela,
Oresti Patricios and
Chaired by the
President of the
SAEEEC Keith Cassie

10:45 - 11:00 MORNING COMFORT BREAK

11:00 - 12:35
M&V
TRACK
Track Chair:
Mitesh Bhawan

The Basics of M&V
explained with real-
life examples
Karel Steyn
- Independent
Consultant

Metering and Data
Gathering: making
martyrs of M&V
Practitioners, ESCO'S,
and Energy Auditors.
Dr. Markus Storm
- RIAC Metering &
Data Services

M&V Project size of
savings – test trucks
with ESM and control
trucks without ESM.
Dr. Simmie Reddy
– Enerserv

The Principles of C&I
Green Funding
Kyle Durham
- FNB

PANEL DISCUSSION:
Q&A
K. Steyn,
Dr. M. Storm,
Dr. S. Reddy,
K. Durham
with Track chair:
Mitesh Bhawan

12:35 - 13:15 LUNCH BREAK

13:15 - 15:10
ALL ABOUT CARBON
Track Chair:
Faith Mkhacwa

Energy &
Decarbonisation
Strategy for
Business
Pieter de Villiers
– COVA Advisory

Energy Strategy
Towards Net Zero
Carbon Emissions –
a case study
Franco Barnard
– COVA Advisory

Global trends in
Carbon Policy and
the expected
implications for
S.A.
Zelda Burchell
– COVA Advisory

Strategies for
Environmental
Change
Joslin Lydall
- Catalyst Solutions

Voluntary Carbon
Markets 101
Heather McEwan
- VERRA

PANEL
DISCUSSION:
Q&A
P. de Villiers,
F. Barnard,
Z. Burchell,
J. Lydall,
H. McEwan
with Track Chair:
Faith Mkhacwa

15:10 - 15:25 AFTERNOON COMFORT BREAK

15:25 - 17:00
SUSTAINABLE
GENERATION
Track Chair:
Devaksha Maharaj

Promoting Energy
Efficiency &
Renewable Energy for
Sustainable Energy
Management at
Tourism SME's Paseka
Mabina
– CSIR

Energy Storage
Les Langa
- Sizane Solutions

The Cokeville Story
Dhevan Pillay
- LTM Energy

The Importance of
Copper in Electrical
Engineering and
Energy
Evert Swanepoel
- Copper
Development
Association Africa

PANEL DISCUSSION:
Q&A
P. Mabina,
L. Langa,
D. Pillay,
E. Swanepoel
with Track Chair:
Devaksha Maharaj

2021SAEEC CONFERENCE PROGRAMME

4 NOVEMBER 2021

MOVING ON - RESILIENCE WITH ENERGY EFFICIENCY

Job Security | Energy Nexus Links | 4th Industrial Revolution | Energy Management & Resources



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<p>09:00 - 10:45</p> <p>JOB SECURITY IN THE ENERGY INDUSTRY</p> <p>Track chair: Tebogo Mokwena</p>	<p>Say yes to recognition Yolanda de Lange - IEPA</p>	<p>Tshelofelo Mokotedi - EWSETA</p>	<p>Changing thought process in creating employment Dr. Nick Christodoulou - Dover Institute</p>	<p>21st Century Workplace: Equipping job seekers to secure opportunities Dr. Coletta Macharia - Cogent Afrique Ltd</p>	<p>'Journey of a Doctor' Doctor Senamela - Delta Carbon</p>	<p>PANEL DISCUSSION: Q&A Y. de Lange, T. Mokotedi, Dr. N. Christodoulou, Dr. C. Macharia, D. Senamela, with Track Chair: Tebogo Mokwena</p>
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10:45 - 11:00 MORNING COMFORT BREAK

<p>11:00 - 13:15</p> <p>ENERGY NEXUS LINKS</p> <p>Track Chair: Sashay Ramdharee</p>	<p>Water Efficiency in the Agro Processing Sector Lindani Ncwane - NCPC-SA</p>	<p>A National strategy to enhance and improve water through sustainably managing dams Lesego Gaegane - Water Research Commission</p>	<p>An Energy Neutral Sector – The Resilience Solution. Mads Warming - DANFOSS</p>	<p>Recent Development in Sustainable Energy Generation and Utilisation in Zimbabwe: Dr. Fortunate Farirai - Sustenergy Training Academy, Zimbabwe.</p>	<p>PANEL DISCUSSION: Q&A L. Ncwane, L. Gaegane, M. Warming, Dr. F. Farirai with Track Chair: Sashay Ramdharee</p>
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13:15 - 13:45 LUNCH BREAK

<p>13:45 - 15:20</p> <p>4TH INDUSTRIAL REVOLUTION AND ENERGY</p> <p>Track Chair: Zadok Olinga</p>	<p>Exploring machine learning applications within the Power Sector Nalen Alwar - Energy Actuals</p>	<p>IoT Monitoring and Integrated Controls in Supermarkets. Thomas Michael Kolster - Danfoss</p>	<p>Security on Modern OT Networks. Tim Craven - H3i Squared.</p>	<p>4IR - a Better Connected World Tyrone Govender - Schneider Electric</p>	<p>PANEL DISCUSSION: Q&A N. Alwar, T. M. Kolster, T. Craven, T. Govender with Track Chair: Zadok Olinga</p>
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15:20 - 15:35 AFTERNOON COMFORT BREAK

<p>15:35 - 17:10</p> <p>ENERGY MANAGEMENT & RESOURCES</p> <p>Track Chair: Dhevan Pillay</p>	<p>Sustainability in the Mines. Faith Mkhacwa - Goldfields S.A.</p>	<p>Municipal Energy Management Systems Jesper Vauvert - GIZ</p>	<p>Industrial Compressed Air Systems Optimisation: 30 Rules of thumb in 30 minutes Albert Williams - Honeyguide Energy Engineering</p>	<p>Energy Resources of SA Dr. Nandi Malumbazo - Wits University</p>	<p>PANEL DISCUSSION: F. Mkhacwa, J. Vauvert, A. Williams, Dr. N. Malumbazo with Track Chair Dhevan Pillay</p>
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2021SAEEEC CONFERENCE PROGRAMME

5 NOVEMBER 2021

MOVING ON - RESILIENCE WITH ENERGY EFFICIENCY

EPC Round Table | EE Buildings | Lighting | Closing of Conference



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<p>09:00 - 10:15</p> <p>ROUND TABLE - EPC WHERE ARE WE NOW?</p> <p>Moderator: Christo van der Merwe</p>	<p>SANEDI: Barry Bredenkamp</p>	<p>SANAS: Linda Grundlingh</p>	<p>SAPOA: Lodewyk van der Zee</p>	<p>IEE Projects: Sashay Ramdharee</p>	<p>DMRE</p>	<p>ROUND TABLE DISCUSSION: Q&A B. Bredenkamp, L. Grundlingh, L. vd Zee, S. Ramdharee, DMRE, with Moderator: C vd Merwe</p>
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10:15 - 10:30 MORNING COMFORT BREAK

<p>10:30 - 12:30</p> <p>ENERGY EFFICIENT BUILDINGS</p> <p>Track Chair: Des Schnetler</p>	<p>The revision of SANS 10400-XA: Energy usage in Buildings Des Schnetler - TIPSASA</p>	<p>Health spaces - the Role of Retrofitting and transforming Buildings Devaksha Maharaj - Ikigia Engineering</p>	<p>Insulating Blankets Mpumzi Swana - SAMAC Engineering</p>	<p>Stacking Alternative Energy Options Jan-Paul Spangenburg - Delta Carbon</p>	<p>Efficient Tax Incentive for Commercial and Industrial Projects. Songo Didiza - Green Building Design Group</p>	<p>PANEL DISCUSSION: Q&A D. Schnetler, D. Maharaj, M. Swana, J.P. Spangenburg, S. Didiza with Track Chair: Des Schnetler</p>
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12:30 - 13:15 LUNCH BREAK

<p>13:15 - 15:15</p> <p>LIGHTING</p> <p>Track Chair: H. Rotman</p>	<p>Energy Efficient Lighting: Entering a new era. Henk Rotman - IESSA</p>	<p>Interact IoT has a big impact on reducing energy consumption in hospitality and office industry. Simon Poo - Signify/Phillips.</p>	<p>Slang Lights India Pritam Punamia - Slang Lights India</p>	<p>Human reactions to light. Louis Lagrange - University of the Free State</p>	<p>PANEL DISCUSSION: Q&A H. Rotman, S.Poo, P. Punamia, L. Lagrange with Track Chair H. Rotman</p>
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15:15

CLOSING OF CONFERENCE
Zadok Olinga, Vice-President of the SAEEEC.
Conference wrap-up
Track Chair feedback session
Vote of thanks

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3 - 5 NOVEMBER 2021

CO-HOST



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TOMORROW - TODAY

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EXHIBITORS



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