



2024 SAEEC 19TH ANNUAL CONFERENCE

Theme

ENERGY EFFICIENCY:

The Road to Achieving Net-Zero Carbon in Energy and Water Management.

Date

03-04 October 2024.

Venue

*The Premier Hotel, O.R. Tambo Airport,
73, Gladiator Street, Rhodesfield, Johannesburg.*

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42 Webb Street, Northmead, Benoni 1501

PROGRAMME

Day 01

03 October 2024

07:30-08:30-Registration

Opening Session

8:30 – 8:45

Opening of Conference. Welcome and Introductions by

Mr. Zadok Olinga

President of the SAEEC.

8:45 – 9:15

Mfundo Xulu ka Dlamini: Director: Green Building Programme Manager: IREREP Department of Public works & Infrastructure.

Topic: Integrated Renewable Energy & Resource Efficiency Programme (IREREP)

9:15 – 9:45

Mr. Alex Benkenstein (Virtual): South African Institute of International Affairs, Head of Climate and Natural Resources Programme

Topic: Efficiency for Resilience: Preparing for Climate Weirding.

9:45 – 10:15

Dr. Presha Ramsarup: University of the Witwatersrand

Topic: Advancing South Africa's Energy Transition: Challenges and Dilemmas facing Skills Systems.

10:15- 10:30

Q & A session

10:30-11:00 Tea Break

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Second Session

11:00 – 13:00

Round Table Discussion – The Importance of Water

Lead panelist : Mr. Richard Garner - MSIA Mining consulting SA (PTY)LTD

- **Panelists**

- Nokulunga Biyase – Department of Water and Sanitation
- Dr. Stoffel Fourie - Walter Sisulu University (WSU)
- Dr. Peter Ozaveshe Oviroh – University of Johannesburg (UJ)
- Martin de Lange – Supreme Spring
- Lindani Ncwane- NCPC-SA

13:00-14:00 Lunch Break



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Third Session (SAYES RELAUNCH)

14:00- 14:05 - Welcome and Opening Remarks

Programme Director: Gareth Burley

- Introduction
- Overview of the event agenda

14:05 PM - 14:20 - Keynote Address

Speaker: Waseem Carrim (CEO of NYDA)

- The Importance of Youth Empowerment and Sustainability
- Government policies, programs and campaigns pertaining youth

14:20 PM - 14:40 Presentation of New Initiatives

Speaker: Molebatsi Ramahudu (Chairperson of SAYES)

- Overview of the new SAYES portfolio

14:40 - 15:55- Skills development programmes

Speaker: Yolanda de Lange [Executive Director IEPA, Regional Vice-President Association of Energy Engineers (AEE)]

- AEE Trainings and Other Skills Development Programmes.

14:55- 15:10 – Innovation in Sustainable Energy

Speaker: Dr Zenzile Rasmeni (Skills Development Project Manager at CSIR places Cluster)

- Empowering Youth for a Sustainable Energy Future: Skills Development and Innovation.

15:10- 15:25- Policy Influence and Advocacy

Speaker: Raymond Matlala (Founder and Executive foreman of SABYA)

- The ways in which the youth can shape policy agendas within BRICS+ and the global South.

15:25 - 15:35 - Closing Remarks

- Summary of key points from the event
- Thank you note to participants and speakers
- Information on next steps and follow-up actions

Closing of Day One

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Day 02: Room 01

04 October 2024

07:30-08:30-Registration

Session 01:

Clean Green Energy and New Energy Vehicle

Moderator: Hope Mashele

8:30 – 8:50

Hiten Parmar: the electric MISSION

Energy Efficiency on the New Energy Vehicles.

8:50 - 9:10

Winstone Jordaan: GridCars

GridCars – Demand Side Management Ecosystem Project report and results

9:10 – 9:30

Gareth Burley: Microcare

Building Micro Grids for Africa's Future – manufacturing EV charges for SA

9:30 – 9:50

Pro. Andre Nel: University of Johannesburg

The UJ BEV Bus Project

9:50 – 10:00

Q & A Session

10:00 – 10:20 Tea/ Coffee

Session 02

Water Accessibility and Management

Lisa Reynolds

10:20 – 10:40

Dr. Ulrich Aversch: Energy and Water Expert.

Energy Efficiency in Water Treatment

10:40 – 11:20

Martin de Lange & Gregory Weeks: Supreme Spring

Our journey to Zero Water Discharge.

11:20- 11:40

Nokulunga Biyase: Department of Water and Sanitation

The Development & Implementation of Water Quality Management Plans in the Integrated Vaal River System-The Status Quo Report.

11:40- 12:00

Kealeboga Molefe: Transcend Corporate Advisors

The Future of ESG.

12:00 – 12:10 Q&A session.

12:10 – 13:10 Lunch Break

Moderator:



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Session 03:

Artificial Intelligence and Energy Efficiency

Moderator:



Creating a Sustainable Tomorrow – Today

13:10 – 13:30

Llewellyn Bryan Curlewis: Iswitch Prepaid Metering (Pty)Ltd.

Intelligent Processing of Data in Order to Ensure Smart Efficiencies in Energy Usage.

13:30 - 13:50

Jon Kornik: PLENTIFY

Future Proofing Utilities: Managing the Financial & Infrastructural Impacts of Household Solar and Intelligent Geyser Control Through AI and EE measures.

13:50 – 14:10

Dr. Mark Rawlins: Energy and Combustion Services

Energy Management Information Systems – Automated Process modelling using Advanced ML&AI Functionality.

14:10- 14:30

Akshay Singh: Energy and Combustion Services

From Data to Decisions - How EnMIS and Automated MnV Drive Sustainable Operations.

14:30- 14:50

Giscard Binini: Tshwane University of Technology

A Global and South African Perspective on Trends, Technologies and Transformation Across the Value Chain.

14:50 – 15:00 Q & A session.

Session 04:

Measurement & Verification and Taxation.

Moderator: **Zadok Olinga**

15:00 – 15:20

Elizna Du Toit: Catalyst Solutions

Navigating SA's Carbon Landscape – The Critical Role of M&V.

15:20 – 15:40

Teegan Govindasamy: Deloitte & Touche

The Impact of Carbon Tax & Carbon Border Adjustment Mechanisms on South African Companies

15:40 – 16:00

Christo van der Merwe: CFJM Solutions

The Importance of Verification.

16:00 – 16:20

Dr. Michael Ndlovu: ESKOM

Approach to Measurement & Verification on Energy Savings.

16:20: – 16:40

Patricia Schroder: Circular Energy

End of Life Management of Electrical and Electronic Equipment and Batteries in Accordance with the Waste Act Regulations.

16:40– 16:50 Q & A Session.

Close of the Day 02: Room 02.

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Session 01:

Net Zero Buildings and Smart Cities.

Moderator: Sashay Ramdharee

8:30 – 8:50

Nqobile Ngcobo: SANEDI

EPC`s as a fundamental for Sustainable Buildings

8:50 – 9:10

Marc Sherratt: Marc Sherratt Architecture

Designing Net Zero buildings in Africa

09:10 – 9:30

Henk Rotman: TRIDONIC

Lighting and DC Microgrids

9:30 – 9:50

Annelide Sherratt: Solid Green Consulting

An integrated approach to Net Zero buildings



09:50 – 10:00 Q & A Session

10:00 – 10:20 Tea /Coffee Break

Session 02:

Energy Management in Industry

Moderator: Priya Veeranna

10:20 – 10:40

Rajiv Tedpaul: SASOL

Energy Efficiency and the Way Forward.

10:40 – 11:00

Lindani Ncwane: NCPC-SA

Energy Management Systems and Energy Systems Optimization can Benefit Industry.

11:00 – 11:20

Mukuru Wesigye: Manergy IROKO Africa

Unlocking Energy and Industrial Heat Recoveries and Potential

11:20 – 11:40

Molebatsi Ramahudu: MegaUnit

Innovative Approaches to Energy Management in the Green Economy.

11:40 – 12:00

Mchenge Nyoka: UNIDO

Scaling up Energy Efficiency Achievements and Future Prospects of the EELA Technical and Co-Financing Facility.



12:10-13:10 Lunch Break

Session 03:

Alternative Energy Sources

Moderator: Henk Rotman.

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13:10 – 13:30

Eric Solot: ALPHA Power Solutions

SuperHarmonics and SuperHarmonics - Challenges and Solutions in Power Quality Management.

13:30 – 13:50

Dr. Gamuchirai Mutezo and Tanaka Mugweni: University of Johannesburg

Alternative Energy Sources and Solutions in Agriculture: A Case Study on Solar Water Heaters.

13:50 – 14:10

Des Muller: Nu-Energy

The Value of Nuclear Energy and its Supply Chain for South Africa.

14:10 – 14:30

Dr. Karen Surridge: SANEDI

The Energy Mix for South Africa, The Good, The Bad and the Resilient.

14:30 – 14:50

Fabian Holm: Holms and Friends Consultancy cc

Drone Thermography: PV Energy Asset Optimisation and what we see in the Market.

14:50 – 15:00 Q&A Session

SESSION 4:

Energy Storage and Safety Systems & New Energy Sources.

Moderator: Henk Rotman.

15:00- 15:20

Karel Roodt: The Fire Engineer:

Fire Safety Planning for Energy Storage Systems.

15:20 – 15:40

Prof. Raj Naidoo: University of Pretoria:

Battery Storage Solutions for Achieving Net Zero Carbon Emissions in Energy Systems.

15:40 -16:00

Victor Sibanda: ZERA:

Harnessing all Potentials in Zimbabwe- The National Biomass Resources Assessment Study: Forestry.

16:00 – 16:20

Prof. Prathaban Moodley: SANEDI

Mixing it up: A Safe Reliable Energy Mix is the Future.

6:20 – 16:30 Q & A Session

Closing of the Day2: Room 02



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