



2ND ANNUAL ELECTRICITY WHEELING CONFERENCE

29 - 30 MARCH 2023
CAPE TOWN, SOUTH AFRICA

THEME: PUBLIC-PRIVATE PARTNERSHIP,
THE KEY TO SUSTAINABLE ELECTRICITY WHEELING
IMPLEMENTATION

IN PARTNERSHIP WITH



DEAR PROFESSIONAL

The 2nd Annual Electricity Wheeling Conference brings together local and international perspectives on interrogating methodologies in electricity transmission. Wheeling, which is the transmission of electricity from the point of production to the end user, has been successfully implemented worldwide in deregulated markets. This approach is challenging in South Africa due to the increasing production of variable renewable power in an environment that is not yet developed. In South Africa's regulated electricity market, Eskom, a state-owned entity, monopolises electricity generation, transmission and distribution. This model is ineffective for various reasons leaving South Africa without a consistent and reliable supply of electricity. For the few independent producers that exist, a major challenge is their decentralized location which gives rise to issues of inadequate supportive infrastructure and weak electricity networks.

The Conference event will present viable alternatives to enhance electricity delivery to load centers across the country. This includes addressing the policy framework, which allows independent power producers to enter the market, but has borne only a handful of projects. One successful project is situated in George, in the Western Cape, where an alternative energy source successfully makes use of the municipality's grid. This project supports the idea that Independent Power Producers (IPPs) can exist alongside mainstream power generation utilities to provide a sustainable electricity supply. Such initiatives also hold potential for collaboration between the public and private sectors to improve infrastructure networks in underdeveloped rural communities. This event will highlight policy and technical challenges, bringing together the input of various stakeholders at a level intended to facilitate the broader uptake of electricity wheeling within the country.

KEY BENEFITS OF ATTENDING

- To encourage utilities to move from an energy units-based business model to selling grid services.
- To enhance metropolitan municipality commitments to be carbon neutral by 2050.
- To encourage businesses to make use of alternative sources of energy.
- To appreciate the PPP role in creating stability.

WHO SHOULD ATTEND

- Municipalities
- Energy utilities
- Energy regulators
- Ministry of Energy
- Electricity generators and distributors
- Independent Power Producers (IPPs)
- Energy specialists
- Solar companies

CONFERENCE CHAIRPERSON



JOSH DIPPENAAR

ENERGY ENGINEER | SUSTAINABLE ENERGY AFRICA

Josh is a Project Manager at Sustainable Energy Africa, a not-for-profit company supporting municipalities with sustainable energy transitions. As part of SEA's municipal embedded generation support program, Josh has supported over 40 South African municipalities develop feed-in-tariffs for solar PV customers. Josh's background is in mechanical engineering, and he is currently researching towards a PhD in power systems engineering.

CONFERENCE SPEAKERS



CLLR BEVERLEY VAN REENEN

MAYORAL COMMITTEE MEMBER: ENERGY DIRECTORATE | CITY OF CAPE TOWN

Cllr Van Reenen started her political career in her community of Elsie's River and the broader Bellville South areas. She began as an Executive Personal Assistant and worked her way through various roles before being elected as the Ward Councillor for Ward 25 in 2014. Cllr Van Reenen served as the Chairperson of Area North Portfolio Committee between 2018 and 2019 and subsequently served as the Chairperson of the Human Settlements Portfolio between 2019 and 2021. In 2018, she was elected Chairperson of the Municipal Innovations and Information Technology Working Group at the South African Local Government Association (SALGA). Towards the end of 2019, Cllr van Reenen was appointed as the Mayoral Committee Member for Energy in the City of Cape Town, and serves as an Executive Member of the Association of Municipal Electricity Utilities (AMEU).



JAMES MACKAY

C.E.O | ENERGY COUNCIL OF SOUTH AFRICA

As a multi-disciplined professional in both engineering and finance, James brings a broad range of skills and experience to his role as the CEO of South Africa's Energy Council. Previously head of Energy Strategy for PwC he has worked across various energy sectors, including power markets, natural gas and green hydrogen. James has worked across Africa and is experienced in both public and private sector. With over 20 years of experience in delivering large investment and transformation projects, James brings a wealth of knowledge and diversity to the task of developing a sustainable national energy transition pathway focused on ensuring a thriving energy sector, whilst creating shared value and prosperity for all South Africans.

CONFERENCE SPEAKERS



DR FRANS MANGANYE

DIVISIONAL HEAD: ENERGY & ELECTRICITY | CITY OF TSHWANE

Dr Frans Manganye is employed by the City of Tshwane as the Divisional Head and occupied various strategic and leadership positions. Has mentored and coached intelligent engineers, technologists and technicians who are currently occupying key positions in the engineering industry. He is a focused and dedicated person keen to meticulously contribute to the society at large. Having vast experience and knowledge in leadership and management, project management, operations management, urban management, renewable energy, energy efficiency, research, innovation, and technology. He enjoys conducting research, investigation and diagnosing underlying factors in solving complex problems and thus contributing to the society.



AL'LOUISE VAN DEVENTER

SNR MANAGER - DISTRIBUTION SYSTEM OPERATIONS | ESKOM

Al'louise is the senior manager for Distribution System Operations. This position is the heart of System operations for distribution and deals with market access and trading platforms as well as trading. She is currently pursuing PhD with University of Cape Town focusing on electricity restructuring and market developments in South Africa. She has been in Eskom over 20 years and has occupied engineering roles such as National Control Manager in System Operator, Independent Power Producer Integration manager in Energy Planning and Market Development and Load Forecasting Manager in Grid planning Transmission. Al'louise holds an M.Sc in Electrical Engineering, a SAIEE member, member of GO-15 work groups, Cigre work groups.



DR BONGANI KHONJELWAYO

SNR FINANCIAL AND ECONOMIC ANALYST | NATIONAL ENERGY REGULATOR OF SOUTH AFRICA

Dr Khonjelwayo is a Senior Financial and Economic Analyst at the National Energy Regulator of South Africa (NERSA), responsible for electricity pricing and tariffs. Bongani works across a wide range of topics, including the development of regulatory tools, assisting in planning, coordinating and implementing regulatory reforms, and the development of tariff structures. He is also a Sessional Lecturer at the Wits Business School Africa Energy Leadership Centre. He is also a postgraduate research supervisor at the Management College of South Africa (MANCOSA). He has more than 14 years' experience in the electricity sector. He holds a PHD in Management from UKZN

CONFERENCE SPEAKERS



CHANDA NXUMALO

DIRECTOR | HARMATTAN RENEWABLES

Ms. Chanda Nxumalo is a professional engineer with over 13 years of experience in the renewable energy and power sector. She has extensive experience working in a technical, business development, and executive capacity in African, American, and European markets. She also has a successful track record of identifying and successfully converting new business opportunities in both developed and emerging markets. Ms. Chanda Nxumalo has supported financial close for a 150 MW wind farm in Senegal and served as transaction advisory on 3 75 MW solar PV projects and a 100 MW wind project for Old Mutual Investment Group. She has also assisted in the development, negotiations, and review of EPC and O&M contractual arrangements for wind and solar projects. She also provides investor due diligence and market entry support. Ms. Chanda Nxumalo has a Master of Engineering in Engineering and Economics & Management from the University of Oxford.



CHARL DU PLESSIS

GENERAL MANAGER | ENERGY PARTNERS

Charl has 10+ years' experience in the South African energy industry with a result driven approach. He has been involved in various portfolio wide energy efficiency and energy management initiatives for multiple JSE listed entities and corporate South Africa in general. He is one of the leading experts in Embedded Generation in South Africa



DR RETHABILE MELAMU

C.E.O | SAPVIA

Dr Melamu is a sustainability professional who is trained in Chemical and Environmental Engineering. She has 15 years' experience in the areas of clean energy, green economy, environmental sustainability, enterprise development, life cycle assessments and climate change. Her experience spans several sectors including renewable energy, waste management, water and sanitation. She sits on several boards and advisory committees of private, academia and the public sectors organisations. She is a thought leader in the energy and green economy sectors, having published reports, thought leadership pieces and academic articles on several platforms in her areas of expertise. She has featured extensively as a speaker on various national and international platforms. She has received recognition for my contribution in the energy sector, notably as a 2017 finalist under the Outstanding Woman in Power and Energy in Africa category at a Africa Utility Week. In the same year 2017, she lead-authored a paper for the prestigious UNDP supported OR Tambo Series of Lectures on Chapter 5 ('Transition to a low-carbon economy') of the South African National Development Plan (2030). In 2019, she was recognised by the national Mail & Guardian newspaper as one of Women Who Are Changing South Africa in the Public Sector.

CONFERENCE SPEAKERS



ARADHNA PANDARUM

**ACTING RESEARCH GROUP LEADER - ENERGY CENTRE |
COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)**

Aradhna Pandarum is currently the Acting Research Group Leader for Energy Industry team in the Energy Centre of the Council for Scientific and Industrial Research (CSIR) who holds a Bachelor's degree in Electronic Engineering from Howard College UKZN and a Master's Degree in Electrical Engineering (Renewable Energy) from University of Witwatersrand. She serves as a technical board member of Cigre South Africa, representing the country in the international C6 study committee on active distribution systems and distributed energy resources. She is also registered as a Professional Engineer with the Engineering Council of South Africa (ECSA). She is passionate about research in the renewable energy space. Whilst working at Eskom, she has gained immense experience in research, testing, and development, especially on renewable energy, that was predominantly centred on embedded generation and its' technical, economic, operational, and environmental impact. At the CSIR, Aradhna is the programme and group leader for research work related to the Just Energy Transition.



STEPHANE BARBEAU

PRACTICE MANAGER | POWER SECTOR REFORMS & PPP | CPCS

Stephane is the Desk Leader for Power Sector Reform at CPCS. He has over 25 years' experience advising governments on commercial and financial aspects of transactions in conventional and renewable energy. Mr. Barbeau is currently leading energy sector reform programs for the Millennium Challenges Corporation in Burkina Faso, Gambia and Senegal and was previously part of the team that led sector reform and privatization in Albania. Mr. Barbeau is an economist and continues to be involved in mandates that lead to electricity market design, unbundling process recommendations and implementation of new market models. He is currently working on issues related to market reform, wheeling and future IPP auctions in South Africa.



GLYNIS COETZEE

HEAD OF SSEG DIVISION | GENESIS ECO-ENERGY DEVELOPMENTS

Glynis has a Bachelor of Architectural Studies degree (UCT), is a Member of the Chartered Institute of Building (CIOB) and has been in the property development and sustainable design sectors at senior or ownership level, for more than 30 years. Glynis has worked with number of residential and commercial property developments, as Estate (Community) energy and utilities Manager, administered budgets, conceptualised and executed capital projects. Glynis is active in renewable energy at senior management / director level, as Head of SSEG division to develop and manage renewable energy PV Solar & hybrid projects.

CONFERENCE SPEAKERS



JOANNA WATTERSON

PHD CANDIDATE | UNIVERSITY OF CAMBRIDGE

Joanna is a second-year PhD Candidate in Geography at the University of Cambridge. She is currently living in Johannesburg and conducting research for her thesis, entitled 'Infrastructural entrepreneurship in the off-grid city: Energy transitions in the Gauteng city-region'. Her work explores the role of and relationship between entrepreneurs and local and provincial governments in the provision of off-grid and hybrid energy infrastructures in both high and low-income contexts. She is currently a visiting researcher at the Gauteng City-Region Observatory, having been a member of their internationally based Off-Grid Cities Research Group since early 2021.

EXHIBITIONS & SPONSORSHIPS AVAILABLE



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DAY 1

07:00- 08:45 Registration and networking

08:45 - 09:00 Opening remarks from the chairperson 15 Mins
Josh Dippenaar | Energy Engineer | Sustainable Energy Africa

09:00 - 09:40 (40Mins) Cllr Beverley van Reenen | Mayoral Committee Member: Energy Directorate | City of Cape Town

Topic: TBC

09:40 - 10:20 (40 Mins) James Mackay | C.E.O| Energy Council of South Africa
Topic: The need for Sustainable Municipal reform in the national Energy Transition

10:20 - 10:40 - Networking tea break (20 Mins)

10:40-11:20 (40 mins) Dr Frans Manganye | Divisional Head :Energy & Electricity | City of Tshwane
Topic: Electricity Wheeling Factors

- Legislative and Policy Position
- Trajectory of Electricity Landscape
- Tariffs Design and Structure
- Electricity Wheeling Trading Arrangements

11:20 - 12:00 (40 mins) Al'louise van Deventer | Snr Manager - Distribution System Operations | Eskom

Topic: Grid Operations with increased flexibility

- Grid Operations & Flexible energy services (FES)
- Optimised Grid operations using FES
- Industry restructuring
- Market Development

12:00 - 12:40 (40 Mins) Charl du Plessis | General Manager | Energy Partners

Topic: Energy Wheeling to Commercial and Industrial South Africa

- The wheeling business case opportunity for current C&I clients
- Case study
- Existing challenges and constraints

12:40 -13:40 Networking Lunch (1 hour)

13:40 -14:10 (30 Mins) Aradhna Pandarum | Acting Research Group Leader - Energy Centre | Council for Scientific and Industrial Research (CSIR)

Topic: Aggregator business model for the energy transition

14:10 -15:00 Panel Session (50 mins)

Panel:

- Al'louise van Deventer | Snr Manager - Distribution System Operations | Eskom
- Dr Frans Manganye | Divisional Head :Energy & Electricity | City of Tshwane
- James Mackay | C.E.O| Energy Council of South Africa
- Charl du Plessis | General Manager | Energy Partners
- Kadri Nassiep | Executive Director for Energy | City of Cape Town

15:00 Closing Remarks from Chairperson

15:15 Networking Tea Break: End of Conference

DAY 2

07:00- 08:45 Registration and networking

08:45 - 09:00 Opening remarks from the chairperson 15 Mins
Josh Dippenaar | Energy Engineer | Sustainable Energy Africa

09:00 to 09:40 (40Mins) Chanda Nxumalo | Director | Harmattan Renewables

Topic: TBC

09:40 - 10:20 (40 Mins) Dr Relathabile Melamu | C.E. O | SAPVIA

Topic : TBC

10:20 - 10:40 -Networking tea break (20 Mins)

10:40-11:20 (40 mins) Dr Bongani Khonjelwayo | Senior Financial and Economic Analyst | National Energy Regulator of South Africa

Topic: The role of regulation

- Facilitating investment in the electricity sector
- Energy wheeling
- Regulatory framework

11:20 - 12:00 (40 mins) Glynis Coetzee | Head of SSEG Division | Genesis Eco-Energy Developments

Topic: The Mechanics & Economics of Wheeling

- Cost of Wheeling over ESKOM grid
- Wheeling within Municipalities
- Accounting for Losses
- Case Study

12:00 - 12:40 (40 Mins) Stephane Barbeau | Practice Manager for Power Sector Reforms and PPP | CPCS

Topic: Current and future market design

- Impediments to increasing wheeling in the short-term
- Potential areas to focus for ensuring a more sustainable wheeling framework

12:40 - 13:40 Networking Lunch (1 hour)

13:40 -14:10 (30 mins)Joanna Watterson | PhD Candidate | University of Cambridge

Topic: What is off-grid?

- The public private partnership
- Case study 1: Gauteng province's transitional urban energy landscape
- Case study 2: Cape Town's solar industry

13:40 -15:00 Panel Session (50 mins)

Panel

- Chanda Nxumalo | Director | Harmattan Renewables
- Glynis Coetzee | Head of SSEG Division | Genesis Eco-Energy Developments
- Stephane Barbeau | Practice Manager for Power Sector Reforms and PPP | CPCS
- Dr Bongani Khonjelwayo | Snr Financial Economic Analyst | NERSA

15:00 Closing Remarks from Chairperson

15:15 Networking Tea Break: End of Conference



REGISTER TO ATTEND

Company Name: _____

Physical Address: _____

Tel: _____ Fax: _____

Post Code: _____ Country: _____

Organization's main line of business: _____

VAT Registration Number: _____

Contact Person(Invoice): _____

Position: _____

Tel: _____ Cell: _____

Email: _____

AUTHORISATION

Full Name: _____

Position: _____

Tel: _____ Fax: _____

Email Address: _____

Signature: _____

Date: _____

Delegates Details 1

Full Name: _____

Position: _____

Tel: _____ Cell: _____

Email: _____

Delegates Details 2

Full Name: _____

Position: _____

Tel: _____ Cell: _____

Email: _____

Delegates Details 3

Full Name: _____

Position: _____

Tel: _____ Cell: _____

Email: _____

Delegates Details 4

Full Name: _____

Position: _____

Tel: _____ Cell: _____

Email: _____

Delegates Details 5

Full Name: _____

Position: _____

Tel: _____ Cell: _____

Email: _____

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PRICE PER DELEGATE IS R9990.00 (VAT EXCLUSIVE)

METHOD OF PAYMENT

Bank Transfers must state conference name

Standard Bank: Milnerton Branch

Account Name: MILLA SA

Account Number: 272059617 • Branch Code: 026509

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All PAYMENTS TO REFLECT INVOICE NUMBER

Contact Details: MILLA SA

Tel: +27 (0) 21 556 9253 • Fax +27 (0) 86 697 1373

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