DAY 1: WEDNESDAY – 19 APRIL 2023

08:30  REGISTRATION

09:00-10:10  SESSION 1: WELCOME AND KEYNOTE ADDRESSES
CHAIR: PRUDENCE MADIBA, GENERAL MANAGER, ESKOM RESEARCH TESTING AND DEVELOPMENT, SOUTH AFRICA

09:00-09:10  Introduction
09:10-09:30  Welcome and keynote address
JACOB MBELE, DIRECTOR GENERAL, DEPARTMENT OF MINERALS RESOURCES AND ENERGY (DMRE), SOUTH AFRICA
09:30-09:50  Welcome and keynote address
DR ANDREW MINCHENER OBE, GENERAL MANAGER, INTERNATIONAL CENTRE FOR SUSTAINABLE CARBON (ICSC), UK
09:50-10:10  Welcome and keynote address
JAN OBERHOLZER, GROUP CHIEF OPERATIONS OFFICER, ESKOM, SOUTH AFRICA

10:10-10:30  Coffee/Tea break  Students Exhibition (Eskom Science Expo Winners)

10:30-12:20  SESSION 2: THE POLICIES
CHAIR: DR GIANNI SERRA, DIRECTOR, SOTACARBO

10:30-10:50  Global clean energy transitions
CARL GREENFIELD, ENERGY ANALYST, IEA
10:50-11:10  Introduction of NEDO’s efforts to develop carbon recycling/CCUS technologies for carbon neutrality in Japan
MAKOTO NUNOKAWA, DIRECTOR, TAKUYA KANDA, CHIEF OFFICER, NEDO
11:10-11:30  Security of supply, decarbonisation and affordability – a European perspective
DR OLIVER THEN, EXECUTIVE MANAGING DIRECTOR, VGBE ENERGY EV
11:30-11:50  South Africa’s cleaner fossil roadmap
DR TITUS MATHE, CHIEF EXECUTIVE OFFICER, SOUTH AFRICAN NATIONAL ENERGY DEVELOPMENT INSTITUTE (SANEDI)
11:50-12:10  Carbon dioxide commitments / carbon taxes in South Africa
CHRISTOPHER AXELSON, CHIEF DIRECTOR, NATIONAL TREASURY
12:10-12:20  Q&A

12:20-13:20  Lunch  Students exhibition

13:20-15:20  SESSION 3: THE REALITIES
CHAIR: DR OLIVER THEN, VGBE

13:20-14:00  Load shedding in South Africa – the situation and how to resolve it
Historic perspective
DEON JOUBERT, CORPORATE SPECIALIST, ESKOM
Current technical performance and recovery plans
THOMAS CONRADIE – GROUP EXECUTIVE GENERATION (ACTING) ESKOM
14:00-14:20  A technology agnostic approach to the energy transition
DR DARIO LIGUTI, DIRECTOR, SUSTAINABLE ENERGY DIVISION, UNECE
14:20-14:40  Finance for sustainable carbon projects
GREG COOK, DIRECTOR, CARBON COUNTS
14:40-15:00  The realities of the energy transition in Australia
DR NOEL SIMENTO, MANAGING DIRECTOR, ANLEC
15:00-15:20  Energy security in Europe following Russia’s invasion of Ukraine
DR STEPHEN MILLS, SENIOR ANALYST, ICSC

15:20-15:40  Coffee/Tea break  Student Exhibition (Eskom Science Expo)

15:40-17:40  SESSION 4: INTEGRATION OF VARIABLE RENEWABLE ENERGY (VRE)
CHAIR: DR ANDREW MINCHENER, ICSC

15:40-16:00  VRE and the role for dispatchable coal
DR MAI BUI, SENIOR RESEARCH ASSOCIATE, IMPERIAL COLLEGE LONDON
16:00-16:20  Eskom distribution’s pursuit of VRE
MONDE BALA, ESKOM GROUP EXECUTIVE DISTRIBUTION
16:20-16:40  Introducing flexibility to a unit – why and how?
KARL BINDEMANN, LUTH CONSULTING LTD
16:40-17:00  Eskom generation unit flexibility
FULUFHELO MAKANANISE, ESKOM
17:00-17:20  Variable renewable energy impact on Eskom transmission grid stability
CASWELL NDHLOVU, CHIEF ENGINEER, ESKOM TRANSMISSION GRID PLANNING
17:20-17:40  Smart temperature controller for heat rate improvement
SANDEEP MEGHWAL, ASSOCIATE MANAGER, ADANI POWER

17:40-17:45  Close of day 1  ESKOM REPRESENTATIVE

19:00  Workshop dinner – sponsored by SANEDI
DAY 2: THURSDAY – 20 APRIL 2023

08:30 REGISTRATION

09:00-10:20 SESSION 5: COAL IN THE CIRCULAR ECONOMY
CHAIR: MATTHEW MFLATHELWA, ESKOM STRATEGY

09:00-09:20 Carbon dioxide utilisation and overview of South African CCUS roadmap
DAVID KHOZA, COUNCIL FOR GEOSCIENCE (CGS)

09:20-09:40 Eskom’s ash and gypsum utilisation
DR KELLEY REYNOLDS-CLAUSEN, CORPORATE SPECIALIST, ESKOM

09:40-10:00 Another perspective: waste to energy and co-firing
PROF PRATHABAN MOODLEY, GENERAL MANAGER, SANEDI

10:00-10:20 Structural composites from coal waste
OREAVOGENE ETERIGHO-IKELEGBE, UNIVERSITY OF THE WITWATERSRAND

10:20-10:40 Coffee/Tea break
Exhibition (City of Cape Town/SUN/UCT/CPUT/UWC)

10:40-11:40 SESSION 6: REPOWERING AND REPURPOSING
CHAIR: PROF WIKUS VAN NIEKERK, DEAN OF ENGINEERING, STELLENBOSCH UNIVERSITY

10:40-11:00 Repurposing and repowering of coal assets
DEBO ADAMS, STUDIES MANAGER, ICSC

11:00-11:20 Projects on repowering and repurposing enhancing power plants’ site potential
DR JENS REICH, DIRECTOR ENERGY TECHNOLOGIES, IQONY SOLUTIONS

11:20-11:40 Eskom Komati power station repowering and repurposing
NICK SINGH, ESKOM

11:40-12:30 SESSION 7A: JUST ENERGY TRANSITION – South Africa
CHAIR: AZWIMBAVHI MAMANYUHA, ESKOM DISTRIBUTION

11:40-12:00 Socio-economic impact of shutting down coal-fired power stations in South Africa
BEAUTY MAZIBUKO, ESKOM

12:00-12:20 South African Just Energy Transition skills risks
WENDY POULTON, SECRETARY GENERAL, SOUTH AFRICAN NATIONAL ENERGY ASSOCIATION

12:20-12:30 Q&A

12:30-13:30 Lunch

13:30-14:40 SESSION 7B: JUST ENERGY TRANSITION – Europe
CHAIR: AZWI MAMANYUHA, ESKOM DISTRIBUTION

13:30-14:00 A Unique pathway to energy, climate and justice
DR GIANNI SERRA, DIRECTOR, SOTACARBO

14:00-14:20 Pathway towards decarbonisation – perspective of a German utility
PROF NIKOLAUS ELZE, MANAGING DIRECTOR, ENBW

14:20-14:40 Eskom’s 1.4 GWh battery energy storage programme: technical assessments
MONDE SONI – CHIEF ENGINEER ESKOM DISTRIBUTION

14:40-15:50 SESSION 8A: THE FUTURE FOR COAL – As a fuel
CHAIR: VIKESH RAJPAUL, ESKOM JET OFFICE

14:40-15:00 South Africa’s coal and security of supply
SNEHAL NAGAR, ACTING GENERAL MANAGER, PRIMARY ENERGY, ESKOM

15:00-15:30 Improving coal plant – the Chinese experience
DR LI LI, SHANHAI SHENERGY

15:30-15:50 The role of carbon credits in the future of coal
ROBBIE LOUW, DIRECTOR, PROMETHIUM

15:50-16:05 Coffee/Tea break
Exhibition (City of Cape Town/SUN/UCT/CPUT/UWC)

16:05-17:25 SESSION 8B: THE FUTURE FOR COAL – As a carbon resource
CHAIR: VIKESH RAJPAUL, ESKOM JET OFFICE

16:05-16:25 Looking beyond coal as a fuel
DR ANDREW MINCHENER OBE, GENERAL MANAGER, ICSC

16:25-16:45 Coal to products – future of Wyoming PRB coal
TRINA PFIEFFER, DIRECTOR, CENTER FOR CARBON CAPTURE AND CONVERSION, UNIVERSITY OF WYOMING

16:45-17:05 Towards a sustainable approach to resource recovery and reuse
DR JIBRIL ABDULSALAM, RESEARCH FELLOW, UNIVERSITY OF THE WITWATERSRAND

17:05-17:25 Coal in the rare earth era: a South African case study
AGNES MODIGA, SENIOR TECHNICIAN, MINTEK

17:25-17:40 Closing
DR ANDREW MINCHENER OBE
WORKSHOP ON THE ENERGY TRANSITION

MEETING ROOM 1.40
19–20 APRIL 2023
CAPE TOWN INTERNATIONAL CONVENTION CENTRE

Delegates arriving by car, please make use of the P3 parking with easy lift connection to the floor where the workshop takes place.

WORKSHOP ON THE ENERGY TRANSITION

MEETING ROOM 1.40
19–20 APRIL 2023
CAPE TOWN INTERNATIONAL CONVENTION CENTRE

Delegates arriving by car, please make use of the P3 parking with easy lift connection to the floor where the workshop takes place.