Transitions in South Africa's Energy Provision

NSTF Discussion Forum

DAY1: 22 August 2023

Speakers' Biographies:

09:10-09:50

Presidential Climate Commission and the Just Energy Transition

Mr Steve Nicholls leads the mitigation team at South Africa's Presidential Climate Commission. Steve works with a range of stakeholders to build consensus on net-zero pathways for each sector of the economy built on a strong fact base, while supporting capacity building and cooperation within the modelling community in South Africa. Understanding future competitive economies and the investments required to enhance South Africa's economic competitiveness while creating employment and reducing inequality and poverty are his key focus. Steve's past experience is in connecting climate issues with economic impact and building the strategic case for integrating climate considerations into economic planning, strategy, risk management, investment planning, policy development and implementation. Prior to joining the PCC, Steve led the Environment and Society programme at the National Business Initiative. In this role Steve ran the programmes that harnessed the collective effort of South African business across the areas of Energy, Climate Change, and Water. Steve has worked in the consulting industry in the United Kingdom and South Africa and has worked on projects in Europe and Southern and East Africa. He has worked across several sectors including Mining, Telecoms, Government, Electrical Energy, Oil and Gas, Financial

	Services and Retail.
 10:00-10:30 *The commercialisation of technologies ecosystem*	**Mr Daya Naidoo** holds an MBA degree, with studies in Electrical and Chemical. He has held senior positions in Eskom, Sasol and Technology Innovation Agency. He is Chairman of UJ Industry FEBE Advisory Board. He is member of eNtsa Board. He is also Committee member of UNESCO. He participates in various Steering Committees covering Water, Hydrogen, e Mobility, Green Technologies and Waste. His experience covers business management, operations management, managing multi-billion rand operations, supporting the development and commercialisation of very successful technologies. His passion is travelling, spending time with family and being involved in church activities.
 10:30-11:00 *Barriers to the transition to solar energy*	**Mr Norman Moyo**, is a Pan African executive with over 20 years in Telecoms, Technology. Energy & Banking across 7 African markets. He is currently Co-Founding CEO for Distributed Power Africa (Econet group energy) & previously the CEO of Helios Towers Tanzania from inception growing it to 4500 towers. He was awarded Global telecoms top 40 under 40 telecoms leadership award. Mr Moyo led 3 distinct business turnaround in Celtel Zambia, Celtel Nigeria & Etisalat. He authored and published highly recommended Pan African leadership book: 'Rumble in the Jungle, leadership from an African perspective'. He is the founder of AVI South Africa, a property company with 30 Pan African investors owning and managing more than 75 lifestyle apartments

11:00-11:30

South Africa's Hydrogen roadmap – progress and potential

Dr Cosmas Chiteme holds a Doctorate in Experimental Condensed Matter Physics from the University of the Witwatersrand and has more than 15 years' experience in the field of Materials Fabrication and Characterisation. In his current post as Director: Power, at the Department of Science and Innovation (DSI), Cosmas is responsible for the Hydrogen Infrastructure Centre of Competence, the CoalCO2 to X and Energy Storage Programmes. His main role is to interact with public and private sectors in South Africa and internationally in order to develop and strengthen partnerships that are essential in promoting the uptake of emerging low carbon energy technologies, particularly those that beneficiate mineral resources found in South Africa and neighbouring countries. Dr Chiteme's current interests are in technology roadmap development, innovation management and technology commercialisation in collaboration with both national and international partners.

 11:30-12:00 *How can independent power producers assist in resolving the electricity crisis and what will it take?*	**Mr Thomas Garner** holds a Mechanical Engineering degree from the University of Pretoria and an MBA for the University of Stellenbosch Business School. He has 30 years experience in the mining and energy industries. In 2012, Tommy was the founding CEO of Cennergi, a 50/50 joint venture between Exxaro Resources and Tata Power focusing on clean energy. Cennergi commissioned two large wind farms in the Eastern Cape during 2016. Tommy is currently Chief Executive Officer of Earth and Wire, a privately owned energy company with the vision of supplying affordable, reliable and sustainable energy to private customers and consumers. He is a registered professional engineer, a Fellow of the South African Academy of Engineering and serves on the Management Committee the South African Independent Power Producers Association.
 12:00-12:30	**Prof Bernard Bekker** originally trained as an electronic engineer, working in banking as a systems and network analyst, before redirecting his career towards his two passions: green building and renewable energy. In 2017, after eleven years working in the solar PV and power electronics industries, he joined Stellenbosch University. His research focuses on power system planning and operation, specifically related to the increasing prevalence of grid-connected distributed storage and generation. He holds the NRF SARChI chair in Power Systems Simulation, and is an associate director at the Centre for Renewable and Sustainable Energy Studies.

Integration of renewable sources into the South African electricity system: opportunities and risks.	