

Indaba Energy Leaders' Dialogue

Innovation and Collaboration for the Grand Transition

20th February 2018
Johannesburg, South Africa

Key Insights

During the 2018 INDABA Energy Leaders' Dialogue we looked at three key energy areas that are relevant for Africa's energy future including benefiting from and leading in the energy transition, implementing and capitalising on energy innovations, and creating an enabling policy framework. Following on a day of rich and diverse conversations with energy leaders from the public and private sector from Africa and beyond, the key insights are:

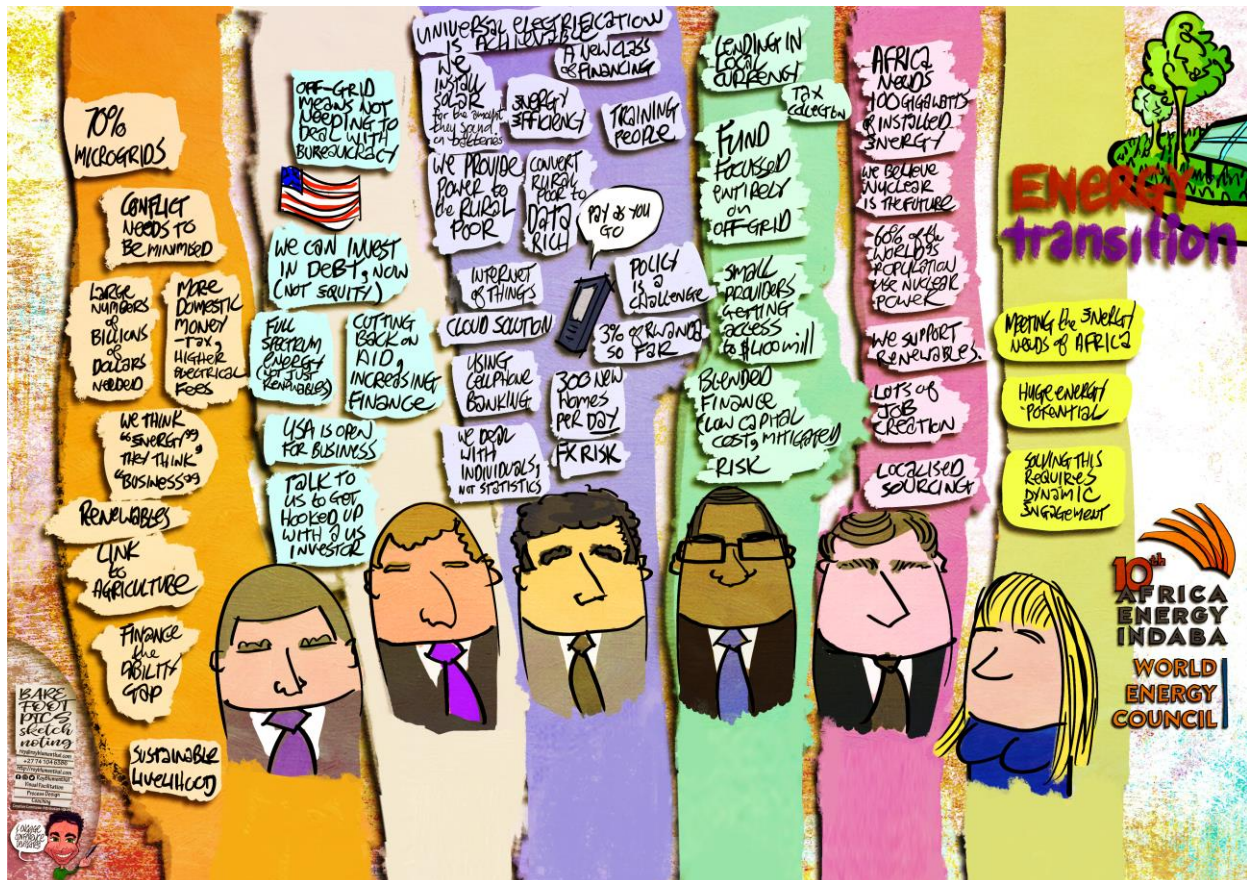
- The African continent remains integral to the energy transitions of other countries/regions and African countries are developing their capabilities for energy transition leapfrogs and successful regional energy integration. It is timely to take stock of the assumptions concerning the speed and direction of Africa's energy transition in the ongoing process of updating the Council's World Energy Scenarios.
- There are inspiring stories coming out of Africa that highlight innovative business models for rural energy access that successfully combine Big Data, new finance and renewables. The World Energy Council can help leverage these stories in its fresh approach and new workstream on innovation.
- Investment remains a key challenge and key players such as the African Union, NEPAD and the African Development Bank are developing innovative approaches to attract and direct private finance to accelerate energy transition across the continent, to reduce FX/currency risk and to address the mispricing of investment risk for Africa that is currently reflected by international markets. WEC is exploring how its Energy Policy Trilemma Index and Framework can evolve to support better dialogue and collaborative action on managing energy transition and also focusing on the options for dynamic resilience in energy system evolution.

Further Energy Leaders' Summits

Looking ahead, the World Energy Council will continue engagement this year by convening energy leaders in Argentina, as part of the G20 Summit and in Milan, Italy during the Council's World Energy Week. As we collectively reflect on the current state of energy in the world, we know that 2016 was the hottest year on record and 2017 is on track to break further temperature records. We see that the international political climate for the energy sector is in a state of flux. We observe that innovations in energy generation and delivery are becoming more efficient and attractive to investors. The World Energy Council is pleased to be able to serve as a convener for the urgently needed dialogue with and between energy leaders for informed, timely and solutions-oriented discussions and we look forward to welcoming you again this year. For further information or to give us feedback, please do not hesitate to contact us directly at global.agenda@worldenergy.org.

Energy Transition and Africa: Opportunities and Risks

11:00-12:30

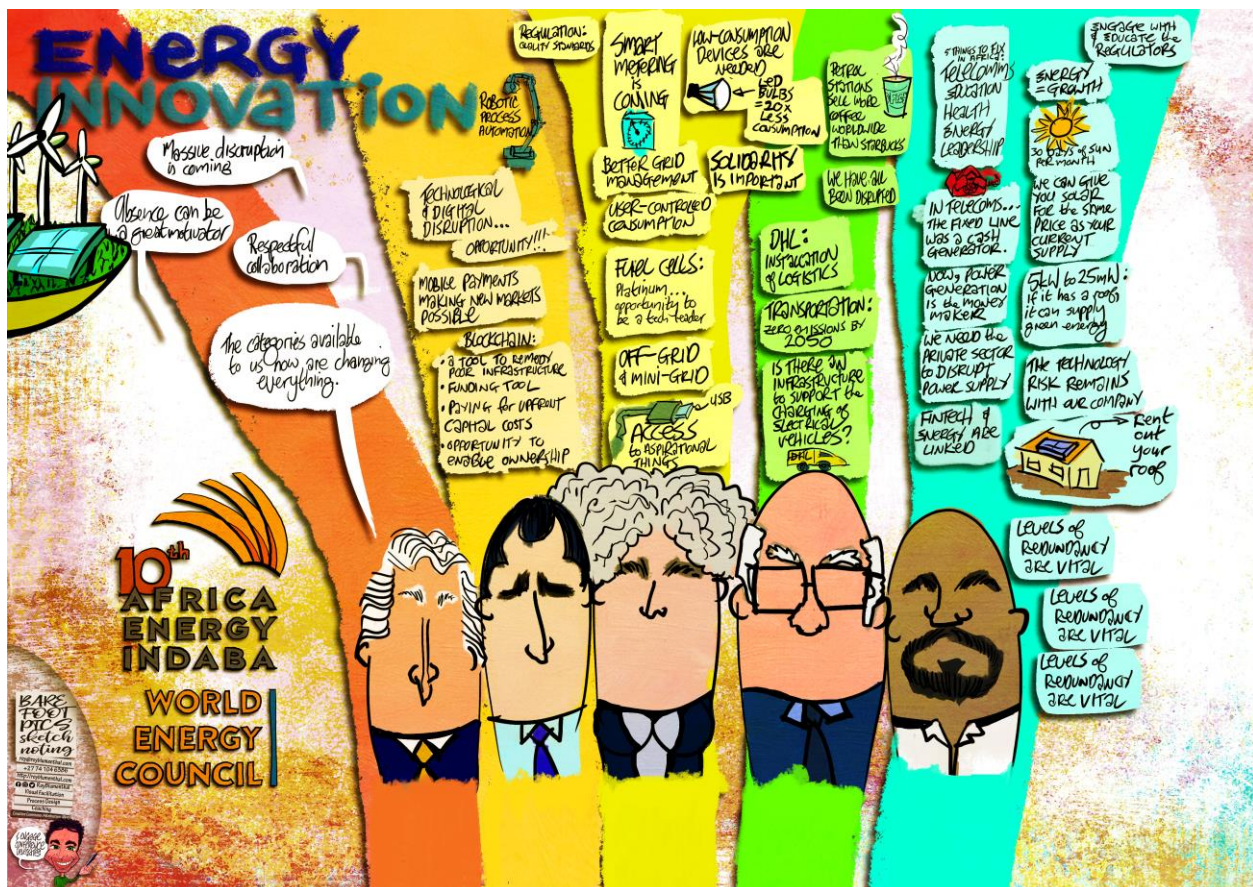


Meeting the energy needs of a rapidly growing African population will mean more than providing a lightbulb for all - household and rural community electrification is only part of the story. Africa has huge energy resource potential and, if it can attract private investment, could achieve an energy transition leapfrog.

- What would a sustainable energy system look like for Africa? Are there regional differences? What are the challenges specific to Africa?
- What enabling policy environments are needed to speed up and support progress in meeting the energy demands of Africa's future?
- Are there financing models – from public or private sector sides – that are enabling energy developments?

Energy Sector Innovations – Africa in the spotlight

13:45 – 15:15



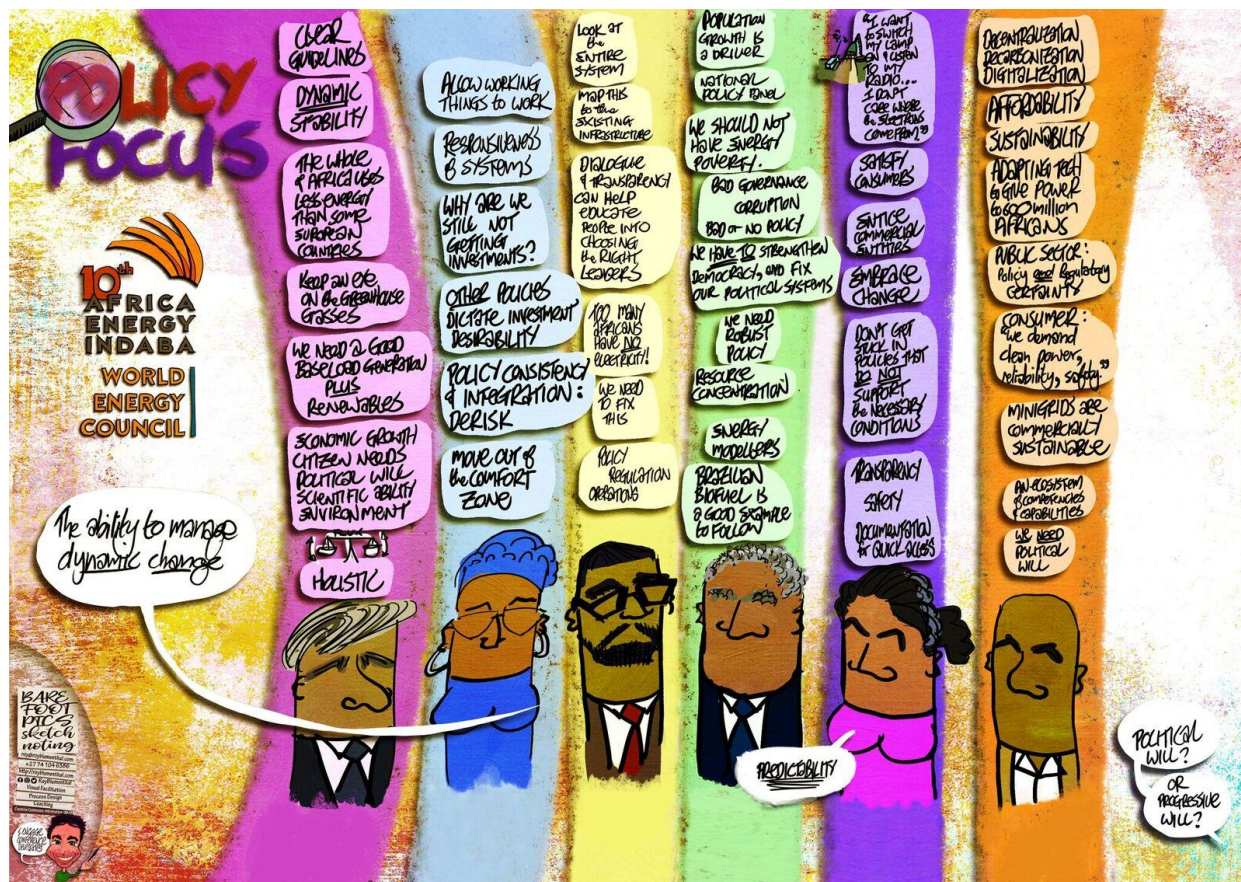
Achieving an ideal energy future requires new innovations and approaches. Declining costs of technologies and increased efficiency, distributed energy resources (DER) and micro-grids, and off-grid solutions all point strongly to a future energy landscape where decentralisation plays a much more prominent role and where rural electrification can be successfully addressed. New digitalisation technologies will enable an efficient energy production revolution. Power to storage to exports can be a game changer for developing countries and regional energy needs. Meanwhile, chemical storage, power-to-x and other developments point to a future in which both molecules and electrons will contribute to a resilient and secure energy system.

Questions

- What are the near and long-term prospects for technological advancements in energy on the African continent?
- What are the financial challenges associated with supporting these developments?
- What are some best practices from the private and public sector that can create an enabling environment for energy innovations and energy entrepreneurs?

Policies in Focus: Creating the Enabling Environment

15:30 – 17:00



As the global energy discussion revolves around breakthrough technologies such as blockchain, digitalisation in the energy sector, and the zero-carbon economy, the basic needs to balance the energy trilemma – security, equity, and access – remain the key concern for policy makers and consumers alike.

Questions

- What policy innovations and models are showing promise to further and support innovations both in the public and private sectors?
- What are the specific challenges in African countries?
- How can collaboration across borders be helpful toward creating enabling policy frameworks?
- What role can the private sector play in supporting and crafting policies that make innovation and finance possible in Africa?

About the World Energy Council

The World Energy Council is the principal impartial network of leaders and practitioners promoting an affordable, stable and environmentally sensitive energy system for the greatest benefit of all.

Formed in 1923, the Council is the UN-accredited global energy body, representing the entire energy spectrum, with more than 3000-member organisations located in over 90 countries and drawn from governments, private and state corporations, academia, NGOs and energy-related stakeholders.

The World Energy Council informs global, regional and national energy strategies by hosting high-level events, publishing authoritative studies, and working through its extensive member network to facilitate the world's energy policy dialogue.

World Energy Council recent publications (Please click on each report to follow the link)

- [World Energy Issues Monitor 2017](#)
- [World Energy Trilemma 2016](#)
- [World Energy Trilemma Index 2016](#)
- [World Energy Resources 2016](#)
- [World Energy Scenarios 2016](#)

Upcoming World Energy Leaders' Summits

- Bariloche, Argentina in June 2018
- Milan, Italy in October 2018

For more information about our events, please visit <https://www.worldenergy.org/events/> or write to us on global.agenda@worldenergy.org.