

CLIMATE CHANGE LEADERSHIP SERIES

Bringing science, people,
and policy together



Topic 5: Who produces CO₂ and why? What are the options and technologies for reducing greenhouse gas emissions?

DATE: 8 July 2021

TIME: 17:30 – 19:00 (GMT plus 2)

VENUE: Zoom Meeting

Click here to join the meeting: <https://us02web.zoom.us/j/84164905744?pwd=NCs3UC9uYjE2OG8zSGQ4eXduVmV0Zz09>

MEETING ID: 841 6490 5744 | **PASSCODE:** 893106

RSVP: Please RSVP to ropafadzom@saifac.org.za

The International Renewable Energy Agency's (IRENA) *World Energy Transitions Outlook* sets out a way for the world to achieve the Paris Agreement goals and to stop the pace of climate change by transforming the global energy landscape. There are already proven technologies that can be used to transition the world's energy systems towards net-zero carbon emissions. Renewable energy is one of these and can play a key role in the decarbonisation effort. IRENA's proposed solution for decarbonising the world's energy systems by 2050 involves renewable energy through direct supply, electrification, increasing energy efficiency, green hydrogen and bioenergy with carbon capture and storage. Fossil-based carbon capture and storage has a limited role to play, and the contribution of nuclear remains at the same levels as today. Importantly, energy transition investment will have to increase by 30% over planned investment to a total of USD 131 trillion between now and 2050 to achieve a global net-zero carbon emission energy system. Eastern and Southern Africa are uniquely suited for renewable energy technologies which could cost-effectively meet 63 % of the regions electricity needs by 2040. This seminar will consider the mix of renewable energies that could be used to meet this region's thirst for new electricity. It will further consider the costs of this approach, the requirements for its successful adoption as well as the potential challenges.



PRESENTER:

Dr Dolf Giesen (International Renewable Energy Agency)

Profile in brief of lead presenter: Dolf Gielen is IRENA Director for Innovation and Technology since 2011. He has more than 25 years of experience with energy transition strategy development and implementation as well as technology policy in an international context. He has a PhD from Delft University of Technology in Delft, The Netherlands.

Please note we only have space for 100 participants on Zoom. Should you not be able to enter the link, you can watch the event on the Facebook page of SAIFAC (<https://www.facebook.com/SAIFACOnline/>)

**THE SERIES CONTINUES WITH TOPIC 6 ON 29 JULY 2021.
SAVE THE DATE!**

Below are the other topics that will be covered together with provisional dates:

TOPIC 6:	Increasing pressure, increasing implications for business?	29 July 2021
TOPIC 7:	We, the people - climate change and civil society responses	19 August 2021
TOPIC 8:	Jobs or the environment? How can climate change responses address the interests of labour?	2 September 2021
TOPIC 9:	Preparing for COP 26 - What does South Africa want from the COP negotiations?	30 September 2021
TOPIC 10:	Where to from here? The role of the next generation and their views on a safe and human world for all	14 October 2021

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