

OFF-GRID Conference 02 - 03 December 2021

Program - Sessions

The presentation of the five 90-minute sessions will give you a first insight into what you can expect at our conference this year. In the next few days you will learn more about the speakers who will present their expertise. Stay tuned.

(Status 04.10.2021/ Programme subject to change)

Day 1 – 02 December 2021

Session I – 90 Mins	Water and Energy Nexus: Achieving Access to Clean Water with Off-Grid Energy Solutions
Description	The Nexus between water and energy is particularly interesting due to their inter-dependencies. Water is used throughout the energy industry, and the water system needs energy for collecting, pumping, treating and desalinating water. Increasing water and energy needs call for smart innovations which can match the demand vs supply gap. To address the related issues and dive deep into the subject, the opening panel will bring together key stakeholders working on this nexus.
	Presentations & Panel Discussion

Session II – 90 Mins	4 th event: Paving the way for clean energy transition (PWCET) Series Powered by GBE/GIZ
Description	Description wil follow

Day 2 – 03 December 2021

Session III – 90 Mins	Sustainable Off-Grid Clean Energy Solutions for Mining and Communities
Description	As an energy-intensive industry, the mining sector requires constant and reliable source of power for its operations. The remoteness of many mines, coupled with the need for consistent baseload, compels the sector to be highly dependent on fossil fuels to meet its energy requirements. Mining is currently responsible for 4 to 7% of greenhouse gas (GHG) emissions globally. With the Paris Climate target of limiting global warming to well below 2°C, there is a strong need to accelerate decarbonising the mining sector. Decentralised renewable energy (DRE) provides an environmentally-friendly and cost-effective solution not only to decarbonise the mining operations but also meet the energy demands for the surrounding communities. This session will mark the launch of a publication and present some innovative projects from around the world on this subject.
	Presentations, Q&A

Session IV – 90 Mins	Energy Storage for rural electrification – providing uninterrupted energy supply
Description	<p>The increased penetration of renewable energy sources is a good sign for global power sector. However, the variable generation potential from solar and wind makes it challenging to provide power 24x7. Energy storage comes as a key to such challenges. Energy storage, if suitably deployed, gives system operators a flexible and fast response resource to effectively manage variability in generation and load and hence provide uninterrupted power supply. This session outlines the nuances of “Energy storage” and the vital role it plays in decentralised rural electrification.</p>
	Presentations, Q&A

Session V – 90 Mins	Decentralised Renewable Energy Innovations to Boost Agri-Sector Productivity & Address Global Food System Challenges
Description	<p>There is a strong need for increased adoption of sustainable agricultural practices to bring the food from farm to fork while addressing the major challenges faced by the global food system. This is where decentralised renewable energy (DRE) technologies can and must play a key role. ARE and UNIDO ITPO Germany launched their joint campaign on ‘Energy & Agriculture’ in the beginning of 2021 and released a publication titled ‘Decentralised Renewable Energy Innovations to Boost Agri-Sector Productivity & Address Global Food System Challenges’. This session will present some of the projects highlighted in the publication and discuss about the current status and way forward.</p>
	Presentations, Panel Discussion