

# 17th BESSY@HZB User Meeting

## Country of Honour: Niger

03 to 05 December 2025

Energy Day – 05 December 2025

### Programme

Topic	Speaker	Affiliation	Time
Opening and Welcome	Bernd Rech	Helmholtz Zentrum Berlin	09:15 – 09:30
Panel Discussion: <i>“Energy and Synchrotron Science for Africa: Building Capacity through International Collaboration”</i> Speakers: <ul style="list-style-type: none"> <li>- Bernd Rech (HZB)</li> <li>- Rabani Adamou (AMU – Niger)</li> <li>- Lucy Ombaka (TUK- Hochschule RheinMain)</li> <li>- Nico Fischer (UCT)</li> </ul> Moderator: Lucero Cobos-Becerra (HZB)			09:30 – 10:30
Coffee Break			10:30 – 11:00
Session I – Energy Conversion and Storage			11:00 – 12:00
Photovoltaic cooling greenhouse adapted for year-round horticulture in the Sahel	Rabani Adamou	Abdou Moumouni University, Niger	11:00 – 11:20
Harnessing Africa’s Renewable Potential for CO <sub>2</sub> Removal: Octavia Carbon’s Vision	Duncan Kariuki	Octavia Carbon, Kenya	11:20 – 11:40
Advancing Synchrotron Science in Africa – A story of long flights, growing networks and new local opportunities	Nico Fischer	Catalysis Institute, UCT South Africa	11:40 – 12:00
Lunch Break			12:00 – 13:00
Session II – Energy Conversion and Storage			13:00 – 14:00
The Berlin Battery Lab: Uniting Berlin’s Expertise in Battery Research	Philipp Adelhelm	Helmholtz Zentrum Berlin	13:00 – 13:20
Catalysis and the energy transition: A focus on Ni–Cu Catalysts for Renewable Hydrogen and eFuels	Nancy Ochiba Lucy Ombaka	Technical University of Kenya RheinMain University of Applied Sciences	13:20 – 13:40
Synchrotron Insights for Industrial Innovation: CARE-O-SENE at BESSY II	Catalina Jimenez	Helmholtz Zentrum Berlin	13:40 - 14:00
Walk to BESSY II			14:00 – 14:15
BESSY II visit			14:15 – 15:00
after work(shop) snacks, cocktails, get together at the BESSY II Foyer			From 15:00