



**Africa  
Centre for  
Energy Policy**

with support from



**OXFAM**

# Climate Action Conference

Building a Sustainable and Equitable  
Future: Green Solutions for Climate  
Resilience in Ghana



Date

**Tuesday, 26th November, 2024**



Time

**9:00 am to 3:00 pm GMT**



Venue

**ISSER Conference Hall**

University of Ghana, Legon



# The Climate Action Conference

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## Background

Climate change poses an existential threat to people's social, economic, and environmental well-being worldwide, with Africa, particularly Ghana, being disproportionately affected. This vulnerability manifests in rising temperatures, unpredictable rainfall patterns, and the increased frequency of extreme weather events, all threatening communities' livelihoods, health, and socio-economic stability. The situation is exacerbated by limited adaptation and mitigation resources, underscoring the urgent need for practical, impactful solutions.

The role of the academic and research community is pivotal in this regard, as they generate valuable knowledge and develop innovative solutions which can shape the policies necessary to combat climate risks effectively. Researchers and academics bring forward diverse perspectives, foster public awareness, and bridge the gap between theoretical research and actionable solutions that can be directly implemented within communities. Recognising the importance of this contribution, the Africa Centre for Energy Policy (ACEP), with support from Oxfam in Ghana, is convening a conference focused on exploring climate action strategies and gender-responsive green solutions for Ghana.

## Conference Objectives

This conference is intended to:

- Bring together academics, researchers, policy experts, and practitioners to discuss innovative, gender-responsive green solutions that strengthen climate resilience in Ghana.
- Facilitate the exchange of research findings and best practices that are theoretically grounded yet practically applicable within Ghanaian communities.
- Promote interdisciplinary collaboration among participants to ensure diverse insights that support equitable climate action and sustainable development.
- Encourage the development of strategies that empower vulnerable populations and ensure climate resilience measures are inclusive and locally tailored.

# Thematic Areas

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## **Traditional Knowledge and Community-Based Approaches**

This category emphasises integrating traditional knowledge with scientific methods to enhance climate resilience at the community level. Topics include community-based adaptation strategies, the environmental impact of contract farming, understanding climate communication among market women, and blending traditional ecological knowledge with conventional science for improved weather forecasts. These approaches highlight the value of local knowledge and community involvement in developing culturally relevant and sustainable climate adaptation practices.

## **Circular Economy and Waste Management**

This category centres on waste management practices that support a circular economy, aiming to minimise waste and maximise resource reuse in Ghana. Studies examine textile recycling practices, composting as a climate solution, and innovative waste management strategies that contribute to economic resilience. These approaches underscore the potential of waste transformation and recycling to contribute to climate action and resource efficiency.

## **Climate Policy, Sustainable Financing, and Business Models**

This category explores the financial frameworks and policy models that underpin sustainable business practices and climate adaptation in Ghana. Topics range from determining adequate financing levels for green businesses, innovative funding options for the agriculture and land use sector, the role of ESG reporting in corporate sustainability, and the inclusion of gender considerations in climate policies across sub-Saharan Africa. Together, they address the financial and policy tools necessary for promoting sustainability and equitable climate resilience.

## **Technological Innovations and Data-Driven Solutions**

This session examines data and AI-powered solutions to support climate resilience and low-carbon development in Ghana. Projects include data solutions for coastal flood management, AI in climate-smart poultry farming, leveraging solar energy to meet energy needs sustainably, and developing low-carbon pathways for the transport sector. These innovations emphasise the role of technology in solving Ghana's environmental challenges, improving adaptation, and transitioning to sustainable energy.

# Programme Outline

Time	Activity
09:00am – 09:30am	<b>Arrival and Registration</b>
09:30am – 09:40am	Welcome Address and Opening <b>Mr. Benjamin Boakye</b> Executive Director, ACEP
09:40am – 09:50am	Address by Guest Speaker <b>Ms. Barbara White Nkoala</b> Country Director, SNV Ghana and Nigeria
09:50am – 10:00am	Address: “The Relevance of Research in Climate Action” <b>Prof. Simon Bawakyillenuo</b> Associate Professor, ISSER, UG
10:00am – 10:30am	Word from Editors <b>Prof. Simon Bawakyillenuo</b> Associate Professor, ISSER, UG  <b>Dr. Yaw A. Boakye-Ansah</b> Senior Lecturer / Head, Department of Petroleum and Natural Gas Engineering, UENR
10:30am – 11:00am	Presentation: “Banking on innovation: financing mechanisms to drive climate action and resilience” <b>Mr. Francis Ayisi</b> Head of ESG and Sustainability, Stanbic Bank Ghana
11:00am – 11:30am	Coffee Break
11:30am – 02:00pm	Thematic Sessions
02:10pm – 02:30pm	Closing Session

**Moderator:** Charles Gyamfi Ofori (*Policy Lead, Climate Change and Energy Transition, ACEP*)

Thematic Sessions

## Traditional Knowledge and Community-Based Approaches

Time	Activity
11:30am – 11:40am	Opening Remarks <b>Dr. Aba Obrumah Crentsil</b> Senior Research Fellow, ISSER, UG
11:40am – 12 noon	<i>Presentation</i> <b>Community-Based Approaches Towards Climate Resilience in the Effutu Municipality: Integrating Traditional Knowledge and Scientific Methods for Sustainable Adaptation</b> Emmanuel Letsyo
12 noon – 12:10pm	Q&A/Discussion
12:10pm – 12:30pm	<i>Presentation</i> <b>Environmental Loss or Gain? Evidence from Maize Contract Farmers in Northern Ghana</b> Abraham Magsiah-Adongo, Prof Isaac Osei-Akoto, Dr. Andrew Agyei-Holmes
12:30pm – 12:40pm	Q&A/Discussion
12:40pm – 01:00pm	<i>Presentation</i> <b>Evaluating the Comprehension of Climate Change Communication Among Market Women in Ghana</b> Benjamin Gyamera, Gifty Oforiwaa Gyamera
01:00pm – 01:10pm	Q&A/Discussion
01.10pm – 01.30pm	<i>Presentation</i> <b>Integrating Traditional Ecological Knowledge with Conventional Science: Enhancing Weather Forecasts and Climate Change Adaptation in Northwest Ghana</b> Philip Aniah, Paul Nayaga, Jonah Amosah
01:30pm – 01:40pm	Q&A/Discussion
01:40pm – 01:50pm	General Discussions
01:50pm – 02:00pm	Closing Remarks <b>Dr. Aba Obrumah Crentsil</b> Senior Research Fellow, ISSER, UG

## Thematic Sessions

# Circular Economy and Waste Management

Time	Activity
11:30am – 11:40am	Opening Remarks <b>Prof. Simon Bawakyillenuo</b> Associate Professor, ISSER, UG
11:40am – 12 noon	<i>Presentation</i> <b>Recycling and Reuse Practices for Post-Consumer Textiles Waste as a Comprehensive Climate Solution in Ghana: A Review</b> Josephine Cudjoe Sarfo
12 noon – 12:15pm	Q&A/Discussion
12:15pm – 12:35pm	<i>Presentation</i> <b>Transforming Waste into Wealth: Composting as a Climate Solution in Ghana</b> Reine Makafui Afi McEben-Nornormey, Josephine Tweneboah Koduah, Olamilekan Ezekiel Tijani
12:35pm – 12:50pm	Q&A/Discussion
12:50pm – 01:10pm	<i>Presentation</i> <b>Waste Management and Climate Change: Perspectives and Opportunities Towards Resilient Pathways in Ghana</b> Khadija Sarquah, Mubarick Issahaku
01:10pm – 01:25pm	Q&A/Discussion
01:25pm – 01:35pm	General Discussions
01:35pm – 01:45pm	Closing Remarks <b>Prof. Simon Bawakyillenuo</b> Associate Professor, ISSER, UG

Thematic Sessions

## Climate Policy, Sustainable Financing and Business Models

Time	Activity
11:30am – 11:40am	Opening Remarks <b>Dr. Pamela Des Bordes</b> Partner, EY
11:40am – 12 noon	<i>Presentation</i> <b>How much is Enough? Understanding the Sustainable Financing Model of Green Businesses in Developing Countries: Focusing on Green Enterprises in Ghana</b> Dennis Asare, Mohammed Abubakari, Mudasiru Mahama
12 noon – 12:15pm	Q&A/Discussion
12:15pm – 12:35pm	<i>Presentation</i> <b>Innovative Climate Adaptation Financing Options for Ghana: Focus on the AFOLU Sector</b> Carlos Kokuvi Tetteh
12:35pm – 12:50pm	Q&A/Discussion
12:50pm – 01:10pm	<i>Presentation</i> <b>Gender and Climate Change Policies in sub-Saharan Africa</b> Ama Afriyie-Jenkins
01:10pm – 01:25pm	Q&A/Discussion
01:25pm – 01:35pm	General Discussions
01:35pm – 01:45pm	Closing Remarks <b>Dr. Pamela Des Bordes</b> Partner, EY

Thematic Sessions

## Technological Innovations and Data-Driven Solutions

Time	Activity
11:30am – 11:40am	Opening Remarks <b>Dr. Yaw A. Boakye-Ansah</b> Senior Lecturer / Head, Department of Petroleum and Natural Gas Engineering, UENR
11:40am – 12 noon	<i>Presentation</i> <b>Data-Driven Solutions for Coastal Flood Adaptation and Climate Resilience</b> Steven Yirenkyi, Cyril D. Boateng
12 noon – 12:10pm	Q&A/Discussion
12:10pm – 12:30pm	<i>Presentation</i> <b>Design Thinking for an AI-Driven Greentech Enterprise Solution in Climate-Smart Poultry Farming: A Case Study of Ghana</b> Nicholas Afram, Hafset Umar, Ama Yeboa Essel
12:30pm – 12:40pm	Q&A/Discussion
12:40pm – 01:00pm	<i>Presentation</i> <b>Leveraging Solar Photovoltaics: A Triple-Win Strategy to Address Ghana's Energy Trilemma of Security, Affordability, and Sustainability</b> Griselda Asamoah-Gyadu, Phil Faanu
01:00pm – 01:10pm	Q&A/Discussion
01.10pm – 01.30pm	<i>Presentation</i> <b>Low Carbon Pathways for Ghana's Transport Sector</b> Josephine Tweneboah Koduah, Precious Okechukwu Iregbu, Michael Nandi
01:30pm – 01:40pm	Q&A/Discussion
01:40pm – 01:50pm	General Discussions
01:50pm – 02:00pm	Closing Remarks <b>Dr. Yaw A. Boakye-Ansah</b> Senior Lecturer / Head, Department of Petroleum and Natural Gas Engineering, UENR



# THANK YOU



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