



# CLIMATECH - 2025

2<sup>nd</sup> International Conference  
on Technology Driven Climate Action - 2025



Platinum Sponsor



Diamond Sponsor



Bronze Sponsor



ORGANIZED BY DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING & DEPARTMENT OF PHYSICS  
JANUARY 16-17, 2025, NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

## Day 1: Thursday, January 16, 2025

### Inaugural Session

Venue: Ashraf Habibullah A/V Hall

Time	Program Details
9:30 AM - 11:00 AM	9:30 AM Recitation of the Holy Quran
	9:40 AM National Anthem
	9:45 AM Welcome address by Conference Co-Chair Dr. Irfan Ahmed
	9:50 AM Keynote Speech by Mr. Shahid Lutfi on Climate and Sustainability
	10:05 AM Speech by CMO of Dawlance, Mr. Syed Hasan Jameel
	10:10 AM Speech by COO of Reon, Mr. Saqib Zaidi
	10:15 AM Address by NED University Higher Management
	10:25 AM Address by Guest of Honour
	10:35 AM Address by Honourable Chief Guest
	10:45 AM Vote of Thanks by Conference Co-Chair Dr. Ghous Bakhsh Narejo
	10:50 AM Souvenir Distribution and Group Photo

### Tea and Networking (11:00 - 11:30 AM)

#### Technical Session 1: EY Knowledge Session

Venue: Ashraf Habibullah A/V Hall

#### Dawlance Sustainability Workshop

Lecture Halls, Department of Telecommunications Engineering

11:30 AM - 01:00 PM	EY Knowledge Session on <i>Advancing the Circular Economy in Pakistan</i> <b>Moderator:</b> Dr. Abdul Ghaffar, Associate Professor, END. <b>Panelists:</b> Abbas Ali – Partner, Consulting Services EY Ford Rhodes, Zehra Aneek- Director, Sustainability Services, EY Ford Rhodes, Mustafa Diwan - Director of Operations and Marketing, Gatron (Industries) Ltd., Muneeba Haroon- Chief Operating Officer, The Green Ark, Attiyah Inaam - Head of Corporate Communication, Sustainability & PR EBM, Dr. Tehmina Ayub- Professor, Department of Civil Engineering, NED University	11:30 AM - 01:00 PM	Dawlance Sustainability Workshop and thematic mentoring sessions Theme 1: Energy Efficiency and Conservation Theme 2: Efficient Packaging and Waste Reduction Theme 3: Eco-friendly Appliances Theme 4: Smart and Sustainable Home Systems
---------------------	---	---------------------	--

### Lunch and Prayer break (01:00 - 02:30 PM)

#### Technical Session 2: Stakeholder Engagement for Climate Action

Venue: Ashraf Habibullah A/V Hall

#### Technical Session 3: Agriculture and Water Management

Venue: STEM Centre

#### Dawlance Sustainability Hackathon

Lecture Halls, Dept. of Telecommunications Engg.

02:30 PM - 05:00 PM	2:30 PM	Addresses by Sponsor representative	02:15 PM - 04:45 PM	2:30 PM	Keynote address by Prof. Zeeshan Shakir from the University of West of Scotland (Online)	02:15 PM - 04:45 PM	<b>Idea Hackathon</b> Ideation, mentoring, and collaboration of the Hackathon teams to propose a solution for the problem assigned during workshop.
	2:50 PM	Keynote address by Mr. Yasir Darya, Climate Action Center, Karachi		2:50 PM	Keynote address by Dr. Samina Kidwai, Institute of Oceanography		
	3:10 PM	Keynote address by Prof. Dr. Noman Ahmed, Dean ASC, NEDUET, Karachi		3:10 PM	Water Quality Index (WQI) of Jamshoro and Hyderabad Samples		
	3:30 PM	Panel Discussion on <i>Importance of Stakeholder Engagement for Climate Action</i> <b>Moderator:</b> Dr. Sundus Ali, Assistant Professor, TCD. <b>Panel Experts:</b> Mr. Ameen Ahmed, Director Operations, Dawlance, Mr. Mumtaz Hussain, Chairman IEEE Young Professionals, Karachi Section, Dr. Mehmood Ali, Chairman Department of Environmental Engineering, NEDUET, Prof. Dr. Noman Ahmed, Dean ASC, NEDUET, Mr. Yasir Darya, Climate Action Center (CAC), Karachi, Ms. Ambreena Ahmed, Director of Teachers' Resource Centre (TRC), Mr. Abubakar Ismail, Head of Energy and Sustainability, Amreeli Steels Ltd.		3:25 PM	Exploring the Spatial Patterns and Temporal Trends of Phytoplankton Variability in the Arabian Sea by Ocean Remote Sensing During 2011 to 2020		
				3:40 PM	Green Rooftops using Hydroponics and Fresh Water		
				3:55 PM	AgriSense: Smart Solutions for Precision Farming, Sustainability and Resource Efficiency		
	4:30 PM	Certificate Distribution		4:10 PM	Technological Advancements for Climate Action: Leveraging Geo AI and Remote Sensing to Address Climate and Environmental Challenges in Sana'a, Yemen (Online)		
				4:25 PM	Certificate Distribution		



# CLIMATECH - 2025

## 2<sup>nd</sup> International Conference on Technology Driven Climate Action - 2025



ORGANIZED BY DEPARTMENT OF TELECOMMUNICATIONS ENGINEERING & DEPARTMENT OF PHYSICS  
JANUARY 16-17, 2025, NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

### Day 2: Friday, January 17, 2025

Technical Session 4: Green Economy and Sustainability Venue: STEM Centre			Technical Session 5: Emerging Solutions for Climate Action Venue: Mechanical A/V Hall			Dawlance Sustainability Hackathon Venue: Ashraf Habibullah A/V Hall		
10:00 AM - 12:30 PM	10:00 AM	Keynote address by Mr. Zarak Khan, Sustainable Banking Expert, State Bank of Pakistan	10:00 AM - 12:30 PM	10:00 AM	Keynote address by Dr. Seema Ansari, Dean of College Engineering and Sciences, Institute of Business Management	09:00 AM - 12:30 PM	9:00 AM	Teams and Jury Arrival
	10:20 AM	Environmental Sustainability in Pakistan: The Interplay of Governance, Green Economy, and Environmental Management Systems		10:20 AM	Keynote address by Prof. Dr. Muhammad Ali Ismail, Chairperson, Computer and Information Systems Engineering, NEDUET		9:10 AM	Idea Pitching and Presentations
	10:35 AM	Thar Coal Fly Ash as an Environmentally Friendly Material in Construction: Opportunities and Challenges		10:40 AM	IoT-based Refrigerator Monitoring System.		12:00 noon	Jury Deliberation
	10:50 AM	Green Supply Chain Practices in Steel Industry of Pakistan		10:55 AM	Enhancing IoT Plant Monitoring with Edge Computing for Real-Time Agricultural Decision-Making			
	11:05 PM	Electricity Generation Through Water Pipes in Textile Factories		11:10 PM	An NB-IoT Enabled Monitoring System for Industrial Environmental Health and Safety			
	11:20 PM	A Data Mining Approach to Weather Prediction in Pakistan Using Machine Learning Models		11:25 PM	Development of a LoRaWAN-based mobile IoT system for Real-Time Climate Monitoring		12:15 PM	Conclusion and Group Photo
	11:35 PM	Innovative Solutions for Climate Action: Tackling Over-Packaging and Empowering Communities Through Olive Cultivation		11:40 PM	Climate change in Pakistan: Challenges, Impacts and the Way Forward			
	11:50 PM	Certificate Distribution		11:55 PM	Certificate Distribution			
<b>Lunch and Prayer break (12:30 PM - 02:30 PM)</b>								
<b>Closing Session</b> Venue: Ashraf Habibullah A/V Hall								
02:45 PM - 05:00 PM	2:45 PM	Recitation of the Holy Quran						
	2:50 PM	National Anthem						
	2:55 PM	Keynote address by Co-Patron, Prof. Dr. Saad Ahmed Qazi, Dean ECE, NEDUET on <i>NED University Initiatives on Climate Change, Sustainability and Carbon Neutrality</i>						
	3:10 PM	Address by Co-Patron, Prof. Dr. Noman Ahmed, Dean ASC, NEDUET						
	3:15 PM	Address by Dawlance Management						
	3:20 PM	Dawlance Hackathon Closing and Award Distribution						
	3:50 PM	Address by NEDUET Higher Management						
	4:00 PM	Conference Highlights and Recommendations by Conference Chair - Dr. Muhammad Imran Aslam						
4:15 PM	Vote of Thanks by Conference Secretary							
4:20 PM	Souvenir Distribution to Dignitaries and Conference Organizers and Group Photo							
<b>Tea and Networking (05:00 - 05:30 PM)</b>								

Platinum Sponsor



Diamond Sponsor



Bronze Sponsor



Academic Collaborator



Selectoral Collaborator



Knowledge Partner



Download abstract book for CLIMATECH 2025  
<https://climatech.neduet.edu.pk/sites/default/files/Data/AbstractBook3.pdf>

