

OMAN
CLIMATE
WEEK

أسبوع عُمان للمناخ

PROGRAMME AGENDA

FROM VISION TO IMPLEMENTATION
LEADING CLIMATE ACTION



14 - 16

 SEPTEMBER
2026

OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT

WWW.OMANCLIMATEWEEK.COM

08:00 - 09:00 Registration and Networking

09:00 - 09:15 Opening Ceremony

NATIONAL ANTHEM	QUR'AN RECITATION	MC WELCOME NOTES 10'  KHALID AL SALAMI MEDIA PERSONALITY	OPENING SHOW
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09:15 - 09:45 Keynote Speeches

WELCOME SPEECH 5'  HE. Dr. Abdullah bin Abdullah Al Amri President Environment Authority 	OCW VIDEO 5' ▶ OCW FILM	RECORDED SPEECH 5'  H.E. Jasem Mohamed AlBudaiwi Secretary-General Gulf Cooperation Council (GCC) 
KEYNOTE SPEECH 5'  HE. Mukhtar Babayev Representative of the President of the Republic of Azerbaijan for Climate Issues 	KEYNOTE SPEECH 5'  Dr. Roberta Boscolo Climate & Energy Leader WMO 	KEYNOTE SPEECH 5'  Muhammad Taimur Manager, Implementation Coordination UNFCCC Secretariat, Bonn 

09:45 - 09:50 Launch of «Green Branch Award»

09:50 - 09:55 MOU Signing

09:55 - 10:00 Keynotes Appreciation

10:00 - 10:05 Sponsor Appreciation

10:05 - 10:30 Exhibition Tour & Coffee Break

10:30 - 11:30 Ministerial Panel: Road to COP 31

Opens with a recorded message from the COP 31 Presidency



MODERATOR

HH. Adham Al Said

Partner

The Firm for Business and
Economic Consulting



**HE. Dr. Abdullah bin Abdullah
Al Amri**

President

Environment Authority



**Dr. Shezra Mansab Ali Khan
Kharal**

State Minister for Climate Change

Pakistan



The Hon Chris Bowen MP

Minister for Climate Change and Energy
· Recorded COP 31 Presidency message

Australia



HE. Sumaira Chowdhury

Representative

UNICEF Oman



HE. Mukhtar Babayev

Representative of the President of the
Republic of Azerbaijan for Climate
Issues



Dr. Roberta Boscolo

Climate & Energy Leader

WMO



11:30 - 12:00

EU-GCC Dialogue on Circular Economy, Waste Management and Resource Efficiency

MODERATOR OPENING



Spyros Kouvelis
Team Leader
EU-GCC Green Transition



EU SCENE-SETTING · ONLINE



Patrick Wegerdt
International Relations Officer – Regional and Bilateral
Environmental Cooperation
DG Environment, European Commission



OMANI SCENE-SETTING

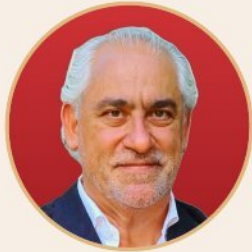


Dr. Mohab Ali Al-Hinai
Vice President – Sustainability and Circular Economy
be'ah



12:00 - 13:00

EU-GCC Dialogue — Panel Discussion



MODERATOR

Spyros Kouvelis
Team Leader
EU-GCC Green Transition



Dr. Abdullah Al Abri
Vice President of Sustainability
SOHAR Port and Freezone



Maan Iskander
Environmental Protection Director
Saudi Aramco



Timo Hammarén
Minister Counsellor and Head of Trade
EU Delegation to Saudi Arabia, Bahrain and Oman



Nicolas Le Goff
Chief Operating Officer
Veolia in Oman



| LUNCH BREAK AND NETWORKING

14:00

UNFCCC · SIDE TRACK

UNFCCC NDC MENA

OPENING REMARKS



Eng. Suleiman Nasser Al Akzami
Vice President
Environment Authority



Muhammad Taimur
Manager, Implementation Coordination
UNFCCC Secretariat, Bonn



14:30 - 15:30

Session 1: Peer Exchange Session on NDC implementation in the MENA region



MODERATOR

Walters Tubua

Regional Lead
RCC West and Central Africa



Mahmoud Fath-Allah
Senior Economist
League of Arab States



Samir Rachidi
Director General
IRESEN



Benjamin Basmaci
Regional Climate Specialist (Online)
UNDP Regional Hub for Arab States



Jauad El Kharraz
Chief Executive Officer & Founder (Online)
WECEN



15:30 - 16:30

Session 2: National deep dive: Oman's NDC implementation



MODERATOR

Walters Tubua

Regional Lead

RCC West and Central Africa

**Rumaitha Al Busaidi**

Vice President

Environment Society of Oman (ESO)

**Faris Al Kharusi**

CEO

Utopia World Investment

**Younis Al-Rawahi**

Deputy Managing Director

Bauer Nimr LLC

**Eng. Maha Ali Al Balushi**

Director of the Climate Mitigation Department

Environment Authority



16:30

Closing Remarks

CLOSING REMARKS

**Eng. Suleiman Nasser Al Akzami**

Vice President

Environment Authority



CLOSING REMARKS

**Muhammad Taimur**

Manager, Implementation Coordination

UNFCCC Secretariat, Bonn



08:00 - 09:00 Registration and Networking

09:00 - 09:30 Keynote Speeches

KEYNOTE SPEECH 10'



Alina Aldambergen
Chief Business Development Officer
Muscat Stock Exchange



KEYNOTE SPEECH 10'



Syed Farhan Fasihuddin
Principal Investment Officer and Regional Business Lead
World Bank Group



KEYNOTE SPEECH 10'



Saud Saif Al Busaidi
Senior Expert
Central Bank of Oman (CBO)



09:30 - 10:30 Panel: Climate Finance — Mobilizing Climate Finance for a Resilient and Low-Carbon Future



MODERATOR
Lotus Mohajer
Liaison Officer Oman
Green Climate Fund





Alina Aldambergen
Chief Business Development Officer
Muscat Stock Exchange





Amna Abdulrahim Al Bulushi
Sustainability & ESG Analyst
Development Bank





Syed Farhan Fasihuddin
Principal Investment Officer and Regional Business Lead
World Bank Group





Arooshi Dahiya
CEO
Oren



10:30 - 11:00 | COFFEE BREAK AND NETWORKING

11:00 - 11:30

Article 6.4 of the Paris Agreement · Project Development and PACM

OPENING REMARKS

10'



Eng. Suleiman Nasser Al Akzami
Vice President
Environment Authority



OPENING REMARKS

10'



Mohammed Al Shuaili
VP Carbon Market and Green Certificate
Oman Net Zero Center



PRESENTATION

15'



Dr. Said Alsarmi
Senior Net Zero Expert and Oman Article 6 DNA
Oman Net Zero Center



PRESENTATION

15'



Umamaheswaran Krishnan
Article 6 and Carbon Pricing Specialist
UNFCCC



11:30 - 12:30

UNFCCC Side Event: Article 6 Implementation



MODERATOR

Walters Tubua
Regional Lead
RCC West and Central Africa



Mohammed Al Shuaili
VP Carbon Market and Green Certificate
Oman Net Zero Center



Omar Al-Ajaji
Advisory Services Sector Manager
Voluntary Carbon Market Company (VCM)



Mahmoud Fath-Allah
Senior Economist
League of Arab States



Kenichiro Yamaguchi
Fellow, Energy and Sustainability
Mitsubishi Research Institute



Prof. Nasser Ayoub
Managing Director, CLC EPD MENA
International EPD System



Karan Khimji
Chief Commercial Officer
44.01



12:30 - 14:00 | LUNCH BREAK AND NETWORKING

14:00 - 15:00 Panel: Building Climate-Smart Cities — The Future of Sustainable and Green Building



MODERATOR
Anahita Jafari
Co-Founder
Husksell Sustainable Solutions
LLC



Hafsa Mohammed Albalushi
Acting Director of Spatial Strategy Department
Ministry of Housing and Urban Planning



Simone Carrarini
Managing Partner
MOVESION



Hoor Hamed Alsiyabi
Environmental Planner
Greater Muscat Structure Plan



15:00 - 16:00

Panel: Innovating for Net Zero — Smart Mobility and Climate Technology Solutions



MODERATOR

Nashwa Al Rawahy

Director

HMR Consultants

**Zainab Al Lawati**Senior Project Specialist – Energy
EfficiencyAuthority for Public Services
Regulation (APSR)**Eng. Mohamed Hassan Al
Mujaini**Acting Chief Operations Support Officer
Oman Oil Marketing Company
(OOMCO)**Aisha Hamood Al Hashmi**

Research and Development Engineer

Hydronova Company

**Mohammed Khalfan
Ambusaidi**

Environment Lead

Sohar Port and Freezone

**Eng. Fatema Al Jardani**Head of Sustainability, Innovation &
Energy Transition

IX E-Mobility



18:00

WOMEN IN CLIMATE & GALA DINNER

≈ END OF DAY 2 ≈

08:00 - 09:00 Registration and Networking

09:00 - 10:00 Keynote Speeches

KEYNOTE SPEECH 10'



Dr. Stewart Maginnis
Deputy Director General
IUCN



KEYNOTE SPEECH (RECORDED) 10'



Astrid Schomaker
Executive Secretary
Convention on Biological Diversity (CBD)



09:30 - 10:30 Panel: Building Resilience Through Climate Heritage — Preserving Nature, Culture, and Communities



MODERATOR
Dr. Heba Aziz
UNESCO Chair Professor
GUtech





Dr. Stewart Maginnis
Deputy Director General
IUCN





Osama Al Nouri
Program Manager, Middle East & North Africa Office
International Fund for Animal Welfare (IFAW)





Viktoria Keding
Executive Director and Co-Founder
NaDEET





Dr. Ihab Janad
Director of the Water Resources Department
ACSAD

10:30 - 11:00 | COFFEE BREAK AND NETWORKING

11:00 - 12:00

Panel: Clean Air for Health and Prosperity — Addressing Air Pollution in a Warming World**MODERATOR****Dr. Said Al Yahyai**

Professor

Global College of Engineering
and Technology (GCET)**Jérôme Louat**

Atmospheric Pollutants Monitoring Application Manager

ENVEA Group

**Siham Salim Al Hadhrami**

Assistant Professor

University of Technology and Applied Sciences (UTAS) – Muscat

**Suad Al Kindi**

Deputy Dean – Research and Innovation

Global College of Engineering and Technology

**Eng. Rawan Al Salmi**

Head of AWJ Sustain

AWJ



12:00 - 14:00

| LUNCH BREAK AND NETWORKING

DAY
3

PROGRAMME AGENDA — STRATEGIC CONFERENCE · continued

WEDNESDAY 16 SEPTEMBER 2026



14:00 - 18:00

RCOY OPENING CEREMONY

≈≈≈ END OF DAY 3 ≈≈≈



OMAN
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INTELLIGENCE PARTNER



ORGANISER



PROGRAMME IN PARTNERSHIP WITH



HOSTED & ORGANISED BY



The 2nd International Conference on SUSTAINABLE WASTE MANAGEMENT: CIRCULAR ECONOMY AND RESOURCE RECOVERY

PROGRAMME AGENDA

SWIII 2026

SUSTAINABLE WASTE MANAGEMENT:
CIRCULAR ECONOMY AND RESOURCE RECOVERY

14-16 SEPTEMBER
2026

www.omanclimateweek.com

SECOND INTERNATIONAL SUSTAINABLE WASTE MANAGEMENT CONFERENCE – SWM2026

14–16 SEPTEMBER 2026 · OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT



CONFERENCE CHAIR



CONFERENCE CHAIR

Dr. Amal Salim Al Rahbi
Conference Chair
University of Technology and Applied Sciences (UTAS)



KEYNOTE SPEAKERS



KEYNOTE SPEAKER

Prof. Maria Loizidou
Professor
National Technical University of Athens



KEYNOTE SPEAKER

Prof. Su Shiung Lam
Professor at the Institute of Tropical Aquaculture and Fisheries
Universiti Malaysia Terengganu (UMT), Malaysia



PARALLEL TRACKS AT A GLANCE

	ROOM	TRACK
DAY 1	● Meeting Room 12	Circular Economy, Governance, Digitalization & Industrial Deployment
DAY 1	● Meeting Room 13	Waste-to-Energy, Fuels, Catalysis & CCUS
DAY 1	● Meeting Room 14	Urban Mining, Circular Materials, Construction & Resource Recovery
DAY 2	● Meeting Room 12	Circular Economy, Governance, Digitalization & Industrial System
DAY 2	● Meeting Room 13	Waste-to-Energy, Bioenergy & Environmental Technologies
DAY 2	● Meeting Room 14	Circular Materials, Construction & Resource Recovery

Paper presentations run in three parallel meeting rooms after the plenary sessions. Invited talks open each track on Day 1; keynotes open Day 2.

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10:30 - 11:30 **Ministerial Panel: Road to COP 31**
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The Firm for Business and
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**HE. Dr. Abdullah bin Abdullah
Al Amri**
President
Environment Authority



**Dr. Shezra Mansab Ali Khan
Kharal**
State Minister for Climate Change
Pakistan



The Hon Chris Bowen MP
Minister for Climate Change and Energy
· Recorded COP 31 Presidency message
Australia



HE. Sumaira Chowdhury
Representative
UNICEF Oman



HE. Mukhtar Babayev
Representative of the President of the
Republic of Azerbaijan for Climate
Issues



Dr. Roberta Boscolo
Climate & Energy Leader
WMO



MEETING ROOM 12

CIRCULAR ECONOMY, GOVERNANCE, DIGITALIZATION & INDUSTRIAL DEPLOYMENT

11:30 - 12:00

INVITED TALK 1

AI Enabled Waste Valorization: Converting Agricultural Waste into Renewable Energy, Biochar, and Sustainable Water Treatment Solutions



Dr. Jinendrika Anushi Weliwita
Lecturer
Higher Colleges of Technology, Fujairah,
UAE



12:00 - 12:20

INVITED TALK 2

Smart Waste Management: Technologies, Trends and Future



Dr. Mohamed El-Khatib
Military Technological College (MTC),
Muscat



12:20 - 12:40

INVITED TALK 3

Data's Role in the New ESG Landscape



Sergio Brihuega Moreno
Founder & Chairman
Sygris



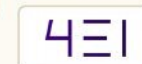
12:40 - 13:00

INVITED TALK

How governments can use AI and satellite data for a more resilient world



David Critchley
Founder & Chairman
4 Earth Intelligence



13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15

PRESENTATION

Industry 4.0 and Circular Economy Pathways in MENA

Dr. Suzanna ElMassah
Zayed University, UAE

14:15 - 14:30

PRESENTATION

Waste-to-Innovation Learning for Circular Economy Education: Evidence from an Undergraduate Capacity-Building Program

Dr. Sumaiya Muneer
Qatar University

14:30 - 14:45

PRESENTATION

Building MDO's ESG Framework: A Foundation for Sustainable Mining in Oman

Ahmad Husam Al Zubair
Minerals Development Oman (MDO)

14:45 - 15:00

PRESENTATION

Industrial Waste Management

Sultan Al Reesi
Sohar Aluminium

15:00 - 15:15

PRESENTATION

IoT System Simulation for Hazardous Waste Detection

Maryam Al-Hajri
Waikato University, New Zealand

15:15 - 15:30

PRESENTATION

From Waste to Wealth: Leveraging Blockchain and Circular Economy Practices for Sustainability in Oman

Dr. Azadeh Hadian
Middle East College

15:30 - 15:45

PRESENTATION

Circular Economy as a Pathway to Enhancing Government Readiness for a Sustainable Future: The Case of Oman

Dr. Aisha Al Sarihi
Ministry of Economy

15:45 - 16:00

PRESENTATION

An AI-Powered Intelligent Sorting and Automation Framework for Efficient Process Management

Dr. Gouri Kiran Kumar
UTAS-Muscat

MEETING ROOM 12

CONTINUED

CIRCULAR ECONOMY, GOVERNANCE, DIGITALIZATION & INDUSTRIAL DEPLOYMENT

16:00 - 16:15

PRESENTATION

Global Governance and Compliance in the Circular Economy:
Comparative Lessons from Nuclear and Chemical Energy
Regimes

Tasneem Al Hadidi

International Atomic Energy Agency (IAEA)

16:15 - 16:30

PRESENTATION

Pharmacy for a Sustainable Future: Quantifying the Carbon
Footprint of Pressurised Metered-Dose Inhalers (pMDIs) in
Oman to Inform Pharmacist-Led Sustainability Interventions

Dr. Fatma Al Hakmani

Ministry of Health

16:30 - 16:45

PRESENTATION

Towards a Behavioral Digital Twin for Household Waste
Compliance: An LLM-Based Approach for Multicultural
Communities in Oman

Khalid Al-Darmaki & Adnan Al Salmi

UTAS-Muscat

16:45 - 17:00

PRESENTATION

AI Solution for Monitoring Beehives: Beecounter and Pollen
Detection

Hidaya Al Abri

Sultan Qaboos University (SQU)

MEETING ROOM 13

WASTE-TO-ENERGY, FUELS, CATALYSIS & CCUS

11:30 - 12:00

INVITED TALK 4

Nanostructured Catalysts for Energy and Environmental Sustainability



Dr. Murid Hussain

Director, Faculty of Engineering & Technology
Muscat University



12:00 - 12:30

INVITED TALK 5

From Biomass to Clean Energy: The Future of Sustainable Biofuel Production



Dr. Seyed Sadrameli

Associate Professor
German University of Technology in Oman (GUtech)



12:30 - 13:00

INVITED TALK 6

AI-Assisted Sustainable Oil Spill Remediation: Reducing Environmental Toxicity
and Carbon Footprint in Vulnerable Gulf Ecosystems



Dr. Sergey Serry

Head of R&D
Arva Greentech Remediation AG, Switzerland



13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15

PRESENTATION

Optimization and Analysis of Sustainable Integrated Methanol
Reforming and Electricity Generation Process

Dr. Swaprabha P. Patel

Qatar University

14:15 - 14:30

PRESENTATION

Design and Fabrication of a Hybrid Bacterial-Microalgae Bio-
Electrochemical System (BEC) for Effective Removal of
Pollutants from Industrial Wastewater

Dr. Mohammed Zafar

UTAS-Sur

14:30 - 14:45

PRESENTATION

Model Development for CO₂ Capture in the Cement Industry
Using Aspen Plus

Aiman Al Harrasi

National University of Science and Technology

14:45 - 15:00

PRESENTATION

Environment and Economic Based Analysis of the Industrial
Carbon Capture Process Using Physical Solvent

Aamal J. Al Mamari

Sultan Qaboos University (SQU)

MEETING ROOM 13

CONTINUED

WASTE-TO-ENERGY, FUELS, CATALYSIS & CCUS

15:00 - 15:15 PRESENTATION Influence of Waste-Related Emissions and Meteorological Factors on PM_{2.5}, PM₁₀, and Surface Ozone over Oman Dr. Baiju Dayanandan Nizwa University	15:15 - 15:30 PRESENTATION Multi-Objective Optimization of CCUS Superstructure in Maximizing Annual Net Profit While Minimizing Net CO₂ Emissions Mustafa Al Salmi Sultan Qaboos University (SQU)	15:30 - 15:45 PRESENTATION Techno-Economic Assessment of Integrating Second-Life EV Batteries in Hybrid Renewable Energy Systems in Oman Sara Alzadjali UTAS-Muscat	15:45 - 16:00 PRESENTATION 217 Plants, One Gap: Building Oman's Circular Sludge and Resource-Recovery Economy Zahra Ali Al Bakri Majan Modern Solutions
16:00 - 16:15 PRESENTATION Recycling Spent Black Tea as a Novel Heterogeneous Acidic Catalyst for Efficient Biodiesel Production from Waste Cooking Oil: Optimization, Kinetics, and Thermodynamic Insights Prof. May Nasr BinJumah Princess Nourah bint Abdulrahman University, Saudi Arabia	16:15 - 16:30 PRESENTATION Food Waste into Energy Using Smart Anaerobic Bacterial Digester Sultan Al-Ghaithi UTAS-Sohar	16:30 - 16:45 PRESENTATION Circular Economy in Construction: Enhancing Concrete Properties with Recycled Materials Zakiya Al Nadabi UTAS-Muscat	16:45 - 17:00 PRESENTATION Biodiesel Synthesis from Date Seed Oil Using Camel Dung as a Novel Green Catalyst Dr. Raiedhah Al Saiari Najran University, Saudi Arabia

MEETING ROOM 14

URBAN MINING, CIRCULAR MATERIALS, CONSTRUCTION & RESOURCE RECOVERY

11:30 - 12:00 INVITED TALK 7 Circular Economy for Photovoltaics Prof. Hussein A. Kazem Professor, Faculty of Engineering Sohar University	12:00 - 12:30 INVITED TALK 8 Transforming Oil Sludge from Liability to Asset via Advanced Pyrolysis Dr. Farrukh Jamil Senior Lecturer, Faculty of Engineering & Technology Muscat University	12:30 - 13:00 INVITED TALK 9 The Circular Economy of Iron Ore By-product Roberta Milagres de Oliveira Technical Business Development Leader Vale Oman
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MEETING ROOM 14
CONTINUED
URBAN MINING, CIRCULAR MATERIALS, CONSTRUCTION & RESOURCE RECOVERY

13:00 - 14:00
LUNCH BREAK AND NETWORKING

14:00 - 14:15 PRESENTATION Integrated Resource Recovery from Waste Plastics and Diesel Engine Exhaust Heat for Sustainable Energy and Water Production Jahad Al Jabri National University of Science & Technology (IMCO)	14:15 - 14:30 PRESENTATION Omani Marine Algae as a Source of Sodium Alginate Nanoparticles and its Applications in Oil Produced Water Treatment – A Green and Sustainable Approach Dr. Geetha Devi National University	14:30 - 14:45 PRESENTATION Bioconversion of PET-Derived Terephthalic Acid (TPA) into Polyhydroxyalkanoates (PHA) by Indigenous Bacterial Consortia from Arid Environments in Oman Al Zahraa Aljulandani Sultan Qaboos University (SQU)	14:45 - 15:00 PRESENTATION Removal of Hexavalent Chromium from Wastewater Using Microbial Mat from Mine Dr. Mohammad Tariq Khan Sultan Qaboos University (SQU)
15:00 - 15:15 PRESENTATION Preliminary Investigation of Primary Battery Consumption and Their Waste Management Strategies in Oman Ghiyatha Al-Wardi UTAS-Sur	15:15 - 15:30 PRESENTATION Analysis of Construction Waste Management System in Oman: A Circular Economy Approach Eng. Raya Al Abri Projects, Tenders & Local Content Authority	15:30 - 15:45 PRESENTATION Sustainable Minerals Exploration Used in Minerals Development Oman (MDO) Mohammed Al Mahrouqi Minerals Development Oman	15:45 - 16:00 PRESENTATION Structural Behaviour and Strength Enhancement Techniques of Rubberized Concrete-Filled Steel Tubular Columns Dr. Nashwa M. Yossef Tanta University, Egypt
16:00 - 16:15 PRESENTATION Microplastic Abundance and Characterization in Omani Coral Reefs: Insights from Muscat and Musandam Hala Al Julandani Environment Authority	16:15 - 16:30 PRESENTATION Granite Cutting and Polishing Sludge – Waste to Sustainable Masonry Material Dr. Manjunath Amalkar UTAS-Muscat	16:30 - 16:45 PRESENTATION Application of Circular Economy Principles in Construction Waste Management in Oman Dr. Shakila Javed UTAS-Muscat	16:45 - 17:00 PRESENTATION Assessment of Semi-Aerobic Solid Waste Treatment in Arid Regions: A Case Study of the “Fukuoka Method” in Jericho Amin Nawahda Palestine Technical University – Kadoorie, Ministry of Education & Higher Education

09:00 – 10:30

Keynote Speeches MEETING ROOM 13 & 14

OPENING SPEECH

09:00 - 09:05



Dr. Amal Salim Al Rahbi
Conference Chair, SWM2026
University of Technology and
Applied Sciences (UTAS)



KEYNOTE 1

09:05 - 09:45



Prof. Su Shiung Lam
Universiti Malaysia Terengganu
(UMT)



Microwave-Assisted Conversion of Biomass and
Waste: A Circular Strategy for Energy and Resource
Recovery

KEYNOTE 2

09:45 - 10:25



Prof. Maria Loizidou
National Technical University of
Athens



Waste Valorization in the Concept of Biorefinery

GROUP PHOTO

10:25 - 10:30

GROUP PHOTO

10:30 - 11:00

| COFFEE BREAK AND NETWORKING

MEETING ROOM 12

CIRCULAR ECONOMY, GOVERNANCE, DIGITALIZATION & INDUSTRIAL SYSTEM

11:00 - 11:15

PRESENTATION

Implementation of Circular Economy Practices in Petroleum
Development Oman

Shaima Haddabi
Senior Air Quality Specialist
Petroleum Development Oman (PDO)

11:15 - 11:30

PRESENTATION

The BioEnergy Choice Hiding Inside Artificial Intelligence

Faris Abdullah Al-Kharusi
CEO
Utopia World Investment SPC

11:30 - 11:45

PRESENTATION

Integrated Circular Economy Program & Digitalization

Dr. Abdulaziz Sharaf
Aramco

11:45 - 12:00

PRESENTATION

Net Zero at a Crossroads: Reframing Waste, Carbon, and
System Boundaries in Sustainability Transitions

Dr. Maan Hayyan
A'Sharqiyah University

12:00 - 12:15

PRESENTATION

Sustainable Copper Mining Tailings Storage Facility – Mazoon
Mining Project Case

Sobhan Alavikia
Mazoon Mining

12:15 - 12:30

PRESENTATION

Digital Governance and Circular Economic Transformation in
Oman under Vision 2040

Dr. Nurcan Kilinc-Ata
Sultan Qaboos University (SQU)

12:30 - 12:45

PRESENTATION

The Raptor Restaurant: Safeguarding Oman's Wintering Eagles
at be'ah Landfill in Dhofar

Fatma Al-Sharji
be'ah



13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15 PRESENTATION

Turning Plastic into Possibility: Building a Circular Economy Through Community Action

Debbie Richardson
Senior Corporate Affairs & Sustainability Strategist

14:15 - 14:30 PRESENTATION

Operational Realities of Port Reception Waste and Evaluating Circular Economy Potential in Practice

Vasileios Sasirmaz
Restitue, Greece

14:30 - 14:45 PRESENTATION

A Gap Analysis of Urban Water Resources Management in Libya under Climate Change Impacts

Ahmed Abugdera
Aljafara University, Libya

14:45 - 15:00 PRESENTATION

A Digital Framework for Industrial Waste Exchange and Circular Resource Recovery in Oman

Alhusain Alhadrami
International College of Engineering and Management

15:00 - 15:15 PRESENTATION

Deep Learning-Based Waste Segregation Framework for Post-Conflict Zones Integrating CNN, IoT, and AR

Dr. Divya Jyothi
UTAS-Mussanah

15:15 - 15:30 PRESENTATION

EcoRam: A Smart Scheduled Waste Management System for Sustainable Urban Ecosystems Inspired by the Japanese Model

Samar Shanti
Sukun Engineering Office, Palestine

15:30 - 15:45 PRESENTATION

Bridging the Economic-Environmental Gap: A New Socioeconomic Model for Managing Private Healthcare Waste in Bahrain

Dr. Khadija Al-Omran
Bahrain Polytechnic, Bahrain

15:45 - 16:00 PRESENTATION

Organic-Recyclable Waste Classification via VGG16 Transfer Learning

Syed Mehr Ali Shah
Malaysian University of Science and Technology, Malaysia

16:00 - 16:15 PRESENTATION

Decarbonization and Circularity in the Construction Industry

Abdelrahman Awad
Holcim, Switzerland

16:15 - 16:30 PRESENTATION

Industrial Symbiosis for Circular Industrial Development in Egypt

Dr. Suzanna ElMassah
Zayed University, UAE

16:30 - 16:45 PRESENTATION

AI-Based Waste Management Strategy: Technological Adopting Perspective

Dr. Varalakshmi Subramani
Mazoon College

16:45 - 17:00 PRESENTATION

Comprehensive Loss Analysis and Simulation for Improving Sustainability and Waste Reduction in Wind Energy Conversion Systems

Dr. Afrah T. Awad
Renewable Energy Research Center, Kirkuk, Iraq

17:00 - 17:15 PRESENTATION

Governance Models for the Transition to Circular Waste Management in the Sultanate of Oman

Abdullah Al Saadi
University of Rostock, Germany

MEETING ROOM 13 WASTE-TO-ENERGY, BIOENERGY & ENVIRONMENTAL TECHNOLOGIES

11:00 - 11:15 PRESENTATION NGS Reveals Diverse Microbiota and Quicker Composting Process in an Arid Region Dr. Mahmood Al Ansari Royal Court Affairs	11:15 - 11:30 PRESENTATION AI-Optimized Green Hydrogen Production from Biomass and Wastewater, and Integrated CO₂ Capture Pathways via Solar-Fenton and Natural Catalysts Dr. Shabib Al Rashdi National University	11:30 - 11:45 PRESENTATION Enhancing the Production of Biogas from the Anaerobic Co-Digestion of Seaweed and Cow Manure Using Conductive Additives Dr. Zeinab Yavari Sultan Qaboos University (SQU)	11:45 - 12:00 PRESENTATION Hydrocarbon Upgrading: An Approach to Value-Added Iso-butene Production from N-butane Dr. Swaprabha P. Patel Qatar University
12:00 - 12:15 PRESENTATION A Sustainable Adsorbent for Procion Red Dye Removal from Textile Wastewater Seyda Tugba Gunday Anil Imam Abdulrahman Bin Faisal University, Saudi Arabia	12:15 - 12:30 PRESENTATION Recent Advances in Biochars Synthesis and Use for Phosphorus Recovery from Wastewater: Implications for Circular Economy and Environmental Sustainability Boosting Dr. Salah Jellali Sultan Qaboos University (SQU)		
12:30 - 14:00 LUNCH BREAK AND NETWORKING			
14:00 - 14:15 PRESENTATION Nano Zero Valent Iron In-situ Coated Carbon Felt for Acetate Production Enhancement in Microbial Electrosynthesis Cell Dr. Noor Al Balushi Sultan Qaboos University (SQU)	14:15 - 14:30 PRESENTATION Microkinetic Modeling of Catalytic Upcycling of Linear Low-Density Polyethylene (LLDPE) to Propylene through Isomerizing Ethanolysis Dr. Mohamed Al Hinai Sohar University	14:30 - 14:45 PRESENTATION Comparative Leachate Quality Analysis of Engineered Landfills in Oman Using Revised Leachate Pollution Index (r-LPI) Salim Al-Zadjali Sultan Qaboos University (SQU)	14:45 - 15:00 PRESENTATION Environmental and Economic Assessment of Treated Effluent-to-Hydrogen Pathways with Solar Integration Zuhoor Al Rashdi German University of Technology

MEETING ROOM 13 CONTINUED WASTE-TO-ENERGY, BIOENERGY & ENVIRONMENTAL TECHNOLOGIES

15:00 - 15:15 PRESENTATION From Wastewater to Safe Water Reuse: Modular Biological Treatment and On-Site Anolyte Disinfection for Circular Water Management in Oman Nadine Blaser Senior Strategic Advisor Waves Technology & Services LLC	15:15 - 15:30 PRESENTATION New Approaches of Sustainable Biopolymer Applications for the Conservation of Heritage in Oman Dr. Eman Taha The Grand Egyptian Museum, Egypt	15:30 - 15:45 PRESENTATION The Influence of Co-application of Elemental Sulfur with Biochar and Compost on Greenhouse Gas Emissions Bashair Al-Maghatasi Sultan Qaboos University (SQU)
15:45 - 16:00 PRESENTATION Impact of Compost Application on Soil Carbon and Nitrogen Losses: Field Study of Greenhouse Gases Emission Abir Al Majrafi Sultan Qaboos University (SQU)	16:00 - 16:15 PRESENTATION Techno-Economic Feasibility of CO₂ Utilization for Synthetic Fuel Production Using Renewable Hydrogen in Oman Fahad Al Balushi UTAS	16:15 - 16:30 PRESENTATION Solar-Responsive Date-Palm Biochar Capsules Loaded with Salt-Tolerant Beneficial Bacteria for Remediation of Saline and Pesticide-Stressed Soils Rayyan Alkharusi University of Szeged, Hungary

MEETING ROOM 14 CIRCULAR MATERIALS, CONSTRUCTION & RESOURCE RECOVERY

11:00 - 11:15 PRESENTATION Sustainable Repurposing of Copper Cables E-Waste in Construction Materials and Energy Recovery: Life Cycle Assessment (LCA) Approach Dr. Omer Aga Imam Abdulrahman Bin Faisal University, Saudi Arabia	11:15 - 11:30 PRESENTATION Transformation of Green Waste into Sustainable Materials: Date Palm & Mesquite Fiber Reinforced Polymer Bio-composites Prof. Khalid Alzebedeh Sultan Qaboos University (SQU)	11:30 - 11:45 PRESENTATION Biodegradable Gum Arabic-Based Suppression of Bauxite Dust Emissions from Stockpiles and Material-Handling Systems Dr. Ismail Anil Imam Abdulrahman Bin Faisal University, Saudi Arabia
11:45 - 12:00 PRESENTATION Biological Recovery of Rare Earth Elements (REEs) from E-Waste and Other Sources Prof. Raeid Abed Sultan Qaboos University (SQU)	12:00 - 12:15 PRESENTATION Challenging the Clay and Synthetic Paradigm: Global Evidence Synthesis and HYDRUS-1D Modelling of Phytocapped Landfills as Long-Term Sustainable Barrier System Dr. Nadun Bulathge Central Queensland University, Australia	12:15 - 12:30 PRESENTATION Towards Circular Road Pavement Materials in Oman Using RAP and a CNSL Bio-Binder Omar Al Maskari RWTH Aachen University, Germany



12:30 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15 PRESENTATION

Balancing Workability and Mechanical Performance of Mortar Incorporating Iron Ore Tailings as Partial Sand Replacement

Dr. Salma El-Maghawri

Sultan Qaboos University (SQU)

14:15 - 14:30 PRESENTATION

Fly Ash-Derived Zeolite Nanocatalysts for Sustainable Crude Oil Cracking: Industrial Waste Valorization in Oman

Dr. Wafa Al Rawahi

UTAS-Muscat

14:30 - 14:45 PRESENTATION

Upcycling Oil Drilling Cuttings into CO₂-Capturing Construction Bricks: A Circular Economy Approach to Oilfield Waste Valorization

Maather Al Shahi

ELTE University, Hungary

14:45 - 15:00 PRESENTATION

Construction and Demolition Waste Recycling in Green Concrete

Dr. Ahmed Salahdeen Nassef

University of Buraimi

15:00 - 15:15 PRESENTATION

Conductive Biochar/nZVI Composite from Mesquite Trees as an Advanced Strategy to Enhance Anaerobic Digestion of Sewage Sludge in Oman

Dr. Zahra Al Hasani

Sultan Qaboos University (SQU)

15:15 - 15:30 PRESENTATION

Sustainable Asphalt Development Using Food-Waste-Derived Biochar and Peridotite for Carbon Reduction from Environment

Dr. Pankaj Sah

UTAS-Muscat

15:30 - 15:45 PRESENTATION

Novel Structured Biodegradable Cellulosic Sponges from Agricultural Waste for Efficient Oil-Water Separation and Water Purification

Dr. Jana Rammal

Lebanese University, Lebanon

15:45 - 16:00 PRESENTATION

Fungal Bioleaching for Economical Recovery of Rare Earth Elements from Omani Lateritic Soils

Shaima Al-Saidi

Sultan Qaboos University (SQU)

16:00 - 16:15 PRESENTATION

Development of a Low-Cost Plastic Waste Melting System for Sustainable Composite Block Fabrication

Dr. Mudassir Syed

UTAS-Salalah

16:15 - 16:30 PRESENTATION

Sustainable Conservation of Cultural Heritage: Integrating Microbial Control, Green Materials, and Circular Economy Principles

Ahmed Sallam

Aswan University, Egypt

16:30 - 16:45 PRESENTATION

Performance and Sustainability Assessment of Concrete Incorporating Recycled Construction Waste Fines for Circular Economy Applications in Oman

Dr. Mohammed Ihtesham Hussain

UTAS-Muscat



OMAN
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RENEWABLE ENERGY & CLIMATE CHANGE CONFERENCE

PROGRAMME AGENDA

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14·16 SEPTEMBER
2026

RENEWABLE ENERGY AND CLIMATE CHANGE CONFERENCE – RECC 2026

14–16 SEPTEMBER 2026 · OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT

CONFERENCE LEADERSHIP & KEYNOTE SPEAKERS



CONFERENCE LEADERSHIP

Prof. Hind Barghash
Associate Professor
German University of Technology in Oman (GUtech)



CONFERENCE LEADERSHIP

Dr. Morteza Mohammadzaheri
Associate Professor and Head of the Engineering Department
German University of Technology in Oman (GUtech)



KEYNOTE SPEAKER

Prof. Rory Monaghan
Professor in Energy Systems Engineering and Head of Mechanical Engineering
University of Galway, Ireland



KEYNOTE SPEAKER

Dr. Coorous Mohtadi
Manager of MathWorks Technical Specialist teams, Northern & Southern Europe, Middle East and North Africa
MathWorks



KEYNOTE SPEAKER

Prof. Alireza Maheri
Personal Chair
School of Engineering, University of Aberdeen



PARALLEL TRACKS AT A GLANCE

	ROOM	TRACK
DAY 1	● RECC Stage	Theme 1: Climate Change Impacts and Resilience
DAY 1	● Room 8	Theme 1: Climate Change Impacts and Resilience
DAY 1	● Room 9	Theme 2: Renewable Energy Deployment
DAY 1	● Room 10	Theme 3: Green Hydrogen and Low-Carbon Fuels
DAY 1	● Room 11	Theme 4: Digital and AI-Enabled Climate Solutions
DAY 2	● RECC Stage	Theme 4: Digital and AI-Enabled Climate Solutions

	ROOM	TRACK
DAY 2	● RECC Stage (afternoon)	Theme 1: Climate Change Impacts and Resilience
DAY 2	● Room 10	Theme 3: Green Hydrogen and Low-Carbon Fuels
DAY 2	● Room 11	Theme 4: Digital and AI-Enabled Climate Solutions
DAY 3	● RECC Stage	Theme 3: Green Hydrogen and Low-Carbon Fuels
DAY 3	● Room 13 & 14	Theme 2: Renewable Energy Deployment

Paper presentations run in parallel rooms under four themes. Keynote speeches take place on the RECC Stage (Day 1 12:00, Day 2 09:00 and 14:00); the Renewable Energy and Climate Change Panel closes the programme on Day 3.

08:00 - 09:00 Registration and Networking

09:00 - 09:15 Opening Ceremony

NATIONAL ANTHEM	QUR'AN RECITATION	MC WELCOME NOTES 10'  KHALID AL SALAMI MEDIA PERSONALITY	OPENING SHOW
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09:15 - 09:45 Keynote Speeches

WELCOME SPEECH 5'  HE. Dr. Abdullah bin Abdullah Al Amri President Environment Authority 	OCW VIDEO 5' ▶ OCW FILM	RECORDED SPEECH 5'  H.E. Jasem Mohamed AlBudaiwi Secretary-General Gulf Cooperation Council (GCC) 
KEYNOTE SPEECH 5'  HE. Mukhtar Babayev Representative of the President of the Republic of Azerbaijan for Climate Issues 	KEYNOTE SPEECH 5'  Dr. Roberta Boscolo Climate & Energy Leader WMO 	KEYNOTE SPEECH 5'  Muhammad Taimur Manager, Implementation Coordination UNFCCC Secretariat, Bonn 

09:45 - 09:50 Launch of «Green Branch Award»

09:50 - 09:55 MOU Signing

09:55 - 10:00 Keynotes Appreciation

10:00 - 10:05 Sponsor Appreciation

10:05 - 10:30 Exhibition Tour & Coffee Break

10:30 - 11:30 **Ministerial Panel: Road to COP 31**
Opens with a recorded message from the COP 31 Presidency



MODERATOR
HH. Adham Al Said
Partner
The Firm for Business and Economic Consulting



HE. Dr. Abdullah bin Abdullah Al Amri
President
Environment Authority



Dr. Shezra Mansab Ali Khan Kharal
State Minister for Climate Change
Pakistan



The Hon Chris Bowen MP
Minister for Climate Change and Energy
· Recorded COP 31 Presidency message
Australia



HE. Sumaira Chowdhury
Representative
UNICEF Oman



HE. Mukhtar Babayev
Representative of the President of the Republic of Azerbaijan for Climate Issues



Dr. Roberta Boscolo
Climate & Energy Leader
WMO



RECC STAGE **THEME 1: CLIMATE CHANGE IMPACTS AND RESILIENCE**

12:00 - 13:00 **Keynote Speech** **Prof. Rory Monaghan**
Professor in Energy Systems Engineering and Head of Mechanical Engineering, University of Galway, Ireland

13:00 - 14:00 **LUNCH BREAK AND NETWORKING**



SESSION CHAIR
Radia Sedaoui
Chief, Energy Section
UN ESCWA



SESSION CO-CHAIR
Prof. Hind Barghash
Associate Professor
German University of Technology in Oman (GUtech)

RECC STAGE CONTINUED **THEME 1: CLIMATE CHANGE IMPACTS AND RESILIENCE**



SESSION CHAIR

Radia Sedaoui

Chief, Energy Section
UN ESCWA

14:00 - 14:20 PRESENTATION The Role of the Natural History Museum in Enhancing Climate Change Adaptation in the Sultanate of Oman: Nature-based Solutions and Natural Heritage Azzah Al Jabri Ministry of Heritage and Tourism	14:20 - 14:40 PRESENTATION Bridging Early Warning and Action: Avoidable Disaster Deaths in Oman's April 2024 Floods and Cyclone Shaheen Moza Mohammed Ali Mohammed Al Marhoobi University of Leicester	14:40 - 15:00 PRESENTATION Assessing Climate Change Impacts on Extreme Harmful Algal Bloom Spatiotemporal Risks in the Sea of Oman Mohammad Reza Nikoo Sultan Qaboos University (SQU)	15:00 - 15:20 PRESENTATION The Impact and Implications of Climate Change – Egypt Case Khaled Gamal Freelancer
15:20 - 15:40 PRESENTATION From Ecological Colonialism to Climate Justice: Challenges for International Law in Addressing Climate Change Hamas Said Abdelli Sultan Qaboos University (SQU)	15:40 - 16:00 PRESENTATION From Climate Risk to Urban Resilience: Integrating Flood Hazard Modelling and Land-Use Planning in Arid Environments Muhammad Tayyab Renardet S.A. & Partners Consulting Engineers	16:00 - 16:20 PRESENTATION Climate-Adaptive Suitability of Solar-Driven, Sorption-Based Atmospheric Water Harvesting Systems Across Oman's Climate Zones: A Performance and Techno-Economic Assessment Alshaima Alsiyabi Muscat University	16:20 - 16:40 PRESENTATION Nature-Based Carbon Removal and Desert Land Rehabilitation Through Camelina sativa Cultivation: Results from Oman's Oilfield Pilot Ibtihal Al-Bahrani Hema Energy

ROOM 8

THEME 1: CLIMATE CHANGE IMPACTS AND RESILIENCE



SESSION CHAIR

Prof. Sayyad Zahid Qamar

Sultan Qaboos University (SQU)



SESSION CO-CHAIR

Dr. Morteza Mohammadzaheri

Associate Professor and Head of the Engineering Department
German University of Technology in Oman (GUtech)

12:00 - 13:00 **Keynote Speech (RECC Stage)** **Prof. Rory Monaghan**
Professor in Energy Systems Engineering and Head of Mechanical Engineering, University of Galway, Ireland

13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:20 PRESENTATION Mineral Carbonation of Iron Slag for Carbon Dioxide Capture Razan Albalushi German University of Technology in Oman (GUtech)	14:20 - 14:40 PRESENTATION Performance Evaluation of Recycled HDPE–Stone Dust Composites for Plastic Brick Applications Hamed Al Kharusi German University of Technology in Oman (GUtech)	14:40 - 15:00 PRESENTATION Circular Manufacturing for Industrial Decarbonization: A Materials-Process-Waste Engineering Framework for Oman and GCC Industries Prof. Sayyad Zahid Qamar Sultan Qaboos University (SQU)	15:00 - 15:20 PRESENTATION Process and Characterization of Recycled Plastic-Sand Composite Paving Slabs in Sustainable Construction of Infrastructure Shahd Alrumhi German University of Technology in Oman (GUtech)
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ROOM 8 CONTINUED **THEME 1: CLIMATE CHANGE IMPACTS AND RESILIENCE**



SESSION CHAIR

Prof. Sayyad Zahid Qamar
Sultan Qaboos University (SQU)

15:20 - 15:40 PRESENTATION Manufacturing of Plastic Paver Blocks for Sustainable Pavement Applications Using Recycled HDPE Waste Noor Al-Mashaykhi German University of Technology in Oman (GUtech)	15:40 - 16:00 PRESENTATION Quality, Safety, and Performance Tests of Recycled Plastic Blocks Tasnim Al-Kindi German University of Technology in Oman (GUtech)	16:00 - 16:20 PRESENTATION Optimization of Recycled High-Density Polyethylene (HDPE) Composites for Sustainable and Energy-Efficient Building Applications Shahad Al Marboui German University of Technology in Oman (GUtech)	16:20 - 16:40 PRESENTATION Circular Use of Fly Ash and Waste Marble Powder for Further Clinker Reduction in LC3: Strength Retention and Climate-Mitigation Potential Using an I-Optimal Custom Mixture Design Sura Mohammed Istanbul Technical University
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ROOM 9 **THEME 2: RENEWABLE ENERGY DEPLOYMENT**



SESSION CHAIR

Mohammad Reza Nikoo
Sultan Qaboos University (SQU)



SESSION CO-CHAIR

Mohammed Al Thani
German University of Technology in Oman (GUtech)

12:00 - 13:00 **Keynote Speech (RECC Stage)**

Prof. Rory Monaghan
Professor in Energy Systems Engineering and Head of Mechanical Engineering, University of Galway, Ireland

13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:20 PRESENTATION Advancing Renewable Energy Integration in Oman Hilal Al Hadi NEDC	14:20 - 14:40 PRESENTATION Wave Energy Assessment and Device Suitability along the Coast of Oman Mohammad Reza Nikoo Sultan Qaboos University (SQU)	14:40 - 15:00 PRESENTATION Multi-objective Integrated Size and Configuration Optimisation of Grid-Connected PEM Electrolyser and Renewable Energy Penetration for Hydrogen Production under Uncertainties: Case of Cove Hydrogen Production Facility Mohammed Al Thani University of Aberdeen	15:00 - 15:20 PRESENTATION Experimental Investigation of Solar Thermal Energy Storage on the Performance of Solar Collector Afrah Awad Northern Technical University, Iraq
15:20 - 15:40 PRESENTATION Harnessing Industrial Mechanical Vibrations for Sustainable Power Generation across Oman: A Decentralized Approach from Musandam to Dhofar Aligned with Vision 2040 Rayyan Al Jabri Sultan Qaboos University (SQU)	15:40 - 16:00 PRESENTATION Power from Sand: Harnessing Sand as a Thermal Energy Medium Ayah Alhadidi University of Technology and Applied Sciences	16:00 - 16:20 PRESENTATION A Sustainable Solar-Powered Refrigeration System for Refrigerated Lorries: Design and Performance Evaluation MohammadReza Yazdifar Birmingham City University	16:20 - 16:40 PRESENTATION Performance Enhancement of Combined-Cycle Power Plants through Operating-Parameter Optimization, Steam-Turbine Reconfiguration, and Solar Thermal Energy Integration Walaa Al Kiyumi with Hawanis Al Balushi, Shahad Abidi, Fatma Awadh Alshandoudi, Alyaqeen Alkalbani and Balgees Al Faris

DAY
1

PROGRAMME AGENDA — SCIENTIFIC CONFERENCE · RECC 2026 · continued

MONDAY 14 SEPTEMBER 2026 | PARALLEL SESSIONS



ROOM 10

THEME 3: GREEN HYDROGEN AND LOW-CARBON FUELS



SESSION CHAIR

Dr. Nasser Al Rizeiqi
Oman Net Zero Center (ONZC)

SESSION CO-CHAIR

Navid Nasiri
Sultan Qaboos University (SQU)12:00 - 13:00 **Keynote Speech (RECC Stage)**

Prof. Rory Monaghan

Professor in Energy Systems Engineering and Head of Mechanical Engineering, University of Galway, Ireland

13:00 - 14:00 **LUNCH BREAK AND NETWORKING**

14:00 - 14:20

PRESENTATION

A Location Attractiveness Index and Comparative Levelized-Cost Framework for Siting AI Data Centers in Oman, with a Green Hydrogen Seasonal-Storage Extension

Dr. Nasser Al Rizeiqi
Oman Net Zero Center (ONZC)

14:20 - 14:40

PRESENTATION

Environmental and Economic Assessment of Treated Effluent-to-Hydrogen Pathways with Solar Integration

Zuhoor Al Rashdi
German University of Technology in Oman (GUtech)

14:40 - 15:00

PRESENTATION

Exploring the Potential of Desalination Brine as a Feedstock for Green Hydrogen Production via Electrolysis in Oman

Ali Al-Humairi
German University of Technology in Oman (GUtech)

15:00 - 15:20

PRESENTATION

Size and Configuration Optimization of Multi-vector Energy System for Green Hydrogen Production and Power Grid Decarbonization Under Uncertainty

Mohammed Al Thani
University of Aberdeen

15:20 - 15:40

PRESENTATION

Optimal Site Selection of Wind-Powered Green Hydrogen Production in Arid Regions: The Case of Thumrait, Oman

Mohamad Ibraheem
Sultan Qaboos University (SQU)

15:40 - 16:00

PRESENTATION

Floating PV Powered Seawater Purification Using the RO Process and Powering Electrolyser for Green Hydrogen Production in Oman

Saada Al Zakwani
University of Exeter

16:00 - 16:20

PRESENTATION

Thermal Integration of Solid Oxide Electrolysis with Concentrated Solar Power and Internal Heat Recovery for Green Hydrogen Production

Yusrah Amer
German University of Technology in Oman (GUtech)

16:20 - 16:40

PRESENTATION

Integrated Solar Updraft Towers for Simultaneous Electricity Generation, Atmospheric Water Harvesting, and Green Hydrogen Production on Omani Coastal Cliffs

Navid Nasiri
Sultan Qaboos University (SQU)

ROOM 11

THEME 4: DIGITAL AND AI-ENABLED CLIMATE SOLUTIONS



SESSION CHAIR

Dr. Saleh Salim Al Arami



SESSION CO-CHAIR

Zohreh Rafiei Samani
Birmingham City University12:00 - 13:00 **Keynote Speech (RECC Stage)**

Prof. Rory Monaghan

Professor in Energy Systems Engineering and Head of Mechanical Engineering, University of Galway, Ireland

13:00 - 14:00 **LUNCH BREAK AND NETWORKING**

ROOM 11 CONTINUED **THEME 4: DIGITAL AND AI-ENABLED CLIMATE SOLUTIONS**



SESSION CHAIR
Dr. Saleh Salim Al Araiimi

14:00 - 14:20 PRESENTATION ML-PVDust: A Simulation-Based Machine Learning Framework for Predicting Dust Soiling and Thermal Degradation Effects on Solar PV Performance in Oman Raed Bulbul Islamic University of Gaza	14:20 - 14:40 PRESENTATION Sustainable Diesel Engine Optimization via AI Afrah Turki Awad Northern Technical University, Iraq	14:40 - 15:00 PRESENTATION Charge Control of Piezoelectric Actuators with Restrained Voltage Drop: An Artificial Intelligence Approach Zohreh Rafiei Samani Birmingham City University	15:00 - 15:20 PRESENTATION Development and Experimental Evaluation of a Random Forest-Based Predictive Controller for Smart Greenhouse Environmental Control Navid Nasiri Sultan Qaboos University (SQU)
15:20 - 15:40 PRESENTATION Long-Term Solar Power Forecasting for Renewable Energy Planning in Oman: A Multi-Site Evaluation of Temporal Fusion Transformer and LSTM Models Hamza Zidoum Sultan Qaboos University (SQU)	15:40 - 16:00 PRESENTATION Visual-Thermal Comfort: An AI-Enabled Operational Mechanism for Realization of Oman 2040 Vision Mohammadjavad Mahdavinejad University of Nizwa	16:00 - 16:20 PRESENTATION Generative Artificial Intelligence for Climate Action: A Systematic Literature Review of Applications, Opportunities, and Governance Challenges Hilal Al Busaidi Sultan Qaboos University (SQU)	16:20 - 16:40 PRESENTATION Aerosol Optical Depth Adds Day-Ahead Predictive Information Beyond All-Sky Irradiance: AI-Based Generation Forecasting at an Omani Desert Photovoltaic Site Shamik Sarangi British School Muscat

RECC STAGE

THEME 4: DIGITAL AND AI-ENABLED CLIMATE SOLUTIONS



SESSION CHAIR
Dr. Saleh Salim Al Araiimi



SESSION CO-CHAIR
Dr. Feras Al Attar

09:00 - 10:00 **Keynote Speech** Prof. Alireza Maheri
Personal Chair, School of Engineering, University of Aberdeen

10:00 - 10:20 PRESENTATION Data Driven Modelling of a Piezoelectric Energy Harvester Eyad Al Issaei German University of Technology in Oman (GUTech)	10:20 - 10:40 PRESENTATION A Smart Irrigation System: IoT-Based Automated and Manual Irrigation Control with a Real-Time Web Interface Fatma Al Balushi with Dr. Morteza Mohammadzaheri German University of Technology in Oman (GUTech)	10:40 - 11:00 PRESENTATION Model-Based Digital Control of a Solar Tracking System Siavash Darash Mahallat Institute of Higher Education	11:00 - 11:20 PRESENTATION BIM-Integrated Smart Building Systems for Waste Reduction and Material Recovery in Oman's Education Sector Mohamed Faisal Al-Kazee University of Nizwa	11:20 - 11:40 PRESENTATION AI-Enabled Climate Solutions and Biophilic Architecture: Integrating Nature into Future Architecture of Oman Adi Alfarei University of Nizwa
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12:00 - 14:00 LUNCH BREAK AND NETWORKING

ROOM 10

THEME 3: GREEN HYDROGEN AND LOW-CARBON FUELS



SESSION CHAIR
Prof. Hind Barghash
Associate Professor
German University of Technology in Oman (GUTech)



SESSION CO-CHAIR
Gholamreza Vakilinejad
Sultan Qaboos University (SQU)

09:00 - 10:00 **Keynote Speech (RECC Stage)** Prof. Alireza Maheri
Personal Chair, School of Engineering, University of Aberdeen

10:00 - 10:20 PRESENTATION Metal-Organic Frameworks for Hydrogen Storage Gholamreza Vakilinejad Sultan Qaboos University (SQU)	10:20 - 10:40 PRESENTATION Social Life Cycle Assessment of Hydrogen Production from Wastewater: A Case Study of Al-Ansab STP Using OpenLCA Maryam Waleed Al Uraimi German University of Technology in Oman (GUTech)	10:40 - 11:00 PRESENTATION A Life Cycle Assessment of Hydrogen Production Using Treated Wastewater: Case Study in Oman Baraah Al-Alawi German University of Technology in Oman (GUTech)	11:00 - 11:20 PRESENTATION Waste-to-Hydrogen Pathways for Oman's National Hydrogen Strategy: A Multi-Dimensional Critical Review with a Deployment Roadmap for Industrial Clusters Zakariya Al Lawati Independent Researcher	11:20 - 11:40 PRESENTATION Green Hydrogen Pipeline Pressure Buffer Dur Al-Naumani German University of Technology in Oman (GUTech)
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12:00 - 14:00 LUNCH BREAK AND NETWORKING

SESSION CHAIR
Dr. Feras Al AttarSESSION CO-CHAIR
Navid Nasiri
Sultan Qaboos University (SQU)

14:00 - 15:00

Renewable Energy and Climate Change: Risks and Opportunities



MODERATOR

Prof. Alireza Maheri
Personal Chair
School of Engineering,
University of AberdeenDr. Morteza Mohammadzaheri
Associate Professor and Head of the
Engineering Department
German University of Technology in Oman
(GUtech)Prof. Rory Monaghan
Professor in Energy Systems Engineering and
Head of Mechanical Engineering
University of Galway, IrelandBarrister Engr. Habil Ahmed Khan
Chief Executive Officer
Welt Konnect (Pvt) LtdHayder Aldarraj
Director General
General Company for Carbon EconomicsDr. Nasser Al Rizeiqi
Sustainability Expert
Ministry of Energy and MineralsProf. Hind Barghash
Associate Professor
German University of Technology in Oman
(GUtech)

15:00 - 15:20

PRESENTATION

Consumer Perception of Sustainable Packaging in E-commerce: Assessing Awareness, Preferences, and Purchase Intentions

Ahmed Zainul Abideen
Muscat University

15:20 - 15:40

PRESENTATION

Assessment of Indoor and Outdoor Air Quality and Ventilation Performance in Educational Campus: A Case Study in Oman

Noor Al Lawati
German University of Technology in Oman (GUtech)

15:40 - 16:00

PRESENTATION

Environmental Performance Assessment of University Campus Using Life Cycle Assessment and Ambient Air Quality Monitoring: A Case Study of The German University of Technology in Oman

Sama Al-Shereiqi
German University of Technology in Oman (GUtech)

16:00 - 16:20

PRESENTATION

Engineering Design Framework for Integrating Alternative Fuels in Maritime Vessels: Enabling Oman's Green Hydrogen Export Strategy and Regional Maritime Decarbonisation

Aisha AlAsmakh
Hamad Bin Khalifa University (HBKU)

16:40 - 17:00

PRESENTATION

The Narrative-Technical Gap in Green Building Certification: Evidence from Oman's First Rozna-Accredited Project and a Practitioner Survey

Zakariya Al Lawati
Independent Researcher

17:00 - 17:20

PRESENTATION

Green-Synthesized Calcium Carbonate Nanoparticles from Omani Pomegranate Peels for Sustainable Greywater Treatment and Reuse

Ethar Alsalmi
National University of Science and Technology – College of Engineering

17:20 - 17:40

PRESENTATION

Hydrodynamic Analysis and Field Validation of a Compact Catamaran Unmanned Surface Vehicle for Marine Monitoring

Navid Nasiri
Sultan Qaboos University (SQU)

17:40 - 18:00

PRESENTATION

Comparative Assessment of Energy Intensity Trends and Demand-Side Management Opportunities in Selected Middle Eastern Countries

Navid Nasiri
Sultan Qaboos University (SQU)

ROOM 11

THEME 4: DIGITAL AND AI-ENABLED CLIMATE SOLUTIONS



SESSION CHAIR
Dr. Suresh Manic



SESSION CO-CHAIR
Dr. Mohammad Reza Khosravani

09:00 - 10:00 Keynote Speech (RECC Stage)

Prof. Alireza Maheri
Personal Chair, School of Engineering, University of Aberdeen

10:00 - 10:20 PRESENTATION
A Digital Environmental Assessment Framework for Government Digital Services: Design, Development, Implementation, and Validation

Houda Al Battashi
Public Establishment for Industrial Estates (Madayn)

10:20 - 10:40 PRESENTATION
First-Principles Calculations of the Structural and Electronic Properties of ZnSxSe1-x Ternary Alloys Using DFT

Mohammed Muayad
Northern Technical University

10:40 - 11:00 PRESENTATION
Surrogate-Assisted CFD for Industrial Gas-Path Decarbonization: An ANSYS Fluent-PyFluent Framework for Uncertainty-Aware Design Exploration and Condition Monitoring

Ishan Sarang Ingle
Unicorn Sustainable Ventures LLC

11:00 - 11:20 PRESENTATION
From Smart Meters to National Climate Transparency: An AI-Assisted Digital MRV Framework for Building Energy-Efficiency Actions in Oman

Mohadeseh Hasanpour
TASA Trading Co

11:20 - 11:40 PRESENTATION
Systemic Over-Design and Energy Inefficiency: A Field Study on HVAC Oversizing in Omani Residential and Educational Infrastructure

Mahmood Alhinai
University of Technology and Applied Sciences

12:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 15:00 **Keynote Speech (Online)****Dr. Coorous Mohtadi**

Manager of MathWorks Technical Specialist teams, Northern & Southern Europe, Middle East and North Africa, MathWorks

15:00 - 15:20

PRESENTATION

Contribution Optimization of Green Hydrogen Electrolyser
Plant Efficiency and Required Power Quality Solution**Helton Henrique Bezerra**

Maschinenfabrik Reinhausen GmbH

15:20 - 15:40

PRESENTATION

Carbon Footprint and Environmental Risks of ICT Adoption in
Oman's Telecom Sector: Assessing Current Impact and Future
Sustainability**Neetu Kwatra**

University of Technology and Applied Sciences – Al Mussanah

15:40 - 16:00

PRESENTATION

Contribution of Carbon Capture Technologies to Net-Zero
Targets under Article 6 of the Paris Agreement: Comparative
International Case Studies and Implications for Oman**Almuzn Alkindi**

German University of Technology in Oman (Gutech)

16:00 - 16:20

PRESENTATION

Evaluating the Challenges and Impact of Industry 4.0 on
Oman's Green Hydrogen Supply Chain**Meilinda Fitriani Nur Maghfiroh**

Sultan Qaboos University (SQU)

RECC STAGE

CONTINUED

THEME 3: GREEN HYDROGEN AND LOW-CARBON FUELS



SESSION CHAIR

Manar Al-Hamdani

16:20 - 16:40 PRESENTATION Sustainable Healthcare in Al Dhahira: Green Hospital Initiative through Electronic Lab Reporting ----- Badriya Al Alawi Ibri Regional Hospital	16:40 - 17:00 PRESENTATION Policy Pathways for Oman's Energy Transition: Balancing Economic Diversification, Environmental Sustainability, and Energy Security ----- Hajer Jomaa University of Miskolc	17:00 - 17:20 PRESENTATION Evaluation of Carbon Pricing Impact on the Operating Cost of a Typical Crude Oil Distillation Plant ----- Fatma Al Zadjali German University of Technology in Oman (GUtech)	17:20 - 17:40 PRESENTATION Transient Analysis of Green Hydrogen Blending in Dual-Supply Natural Gas Transmission and Distribution Networks: Impacts on Energy Delivery ----- Mariam Hafez & Maryam Al Bulushi German University of Technology in Oman (GUtech)
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ROOM 13 & 14

THEME 2: RENEWABLE ENERGY DEPLOYMENT



SESSION CHAIR

Dr. Maryam Al Kalbani



SESSION CO-CHAIR

Shams Anwar

14:00 - 15:00 Keynote Speech (Online) Dr. Coorous Mohtadi Manager of MathWorks Technical Specialist teams, Northern & Southern Europe, Middle East and North Africa, MathWorks	15:00 - 15:20 PRESENTATION The Green Energy Bank: An Integrated Framework for Energy, Behavior, and Carbon Reduction in the GCC ----- Abdulla Bader Abdulla Al-Haddad Ministry of Education	15:20 - 15:40 PRESENTATION UAV-Assisted Detection and GIS-Based Mapping of Methane Emission Hotspots in Mature Onshore Oil Fields: A Proposed AI Framework with Application to the Fahud-Qarn Alam Area, Sultanate of Oman ----- Shahab Adeli IBN Firnas Academy	15:40 - 16:00 PRESENTATION The Impact of Generative Artificial Intelligence on Enhancing Environmental Data Literacy and Supporting Data Driven Decision Making among Sultan Qaboos University Students ----- Zainab Alburaiki Sultan Qaboos University (SQU)
16:00 - 16:20 PRESENTATION Diversifying into Carbon: Oman's Emission-Intensity Recoupling and the Road to Net-Zero 2050 ----- Honnurvali Mohamed Shaik Muscat University	16:20 - 16:40 PRESENTATION Environmental and Operational Drivers of Multirotor UAV Energy Consumption: A Field-Based Correlation Analysis for Energy-Efficient Mission Planning ----- Mahdi Al Abri German University of Technology in Oman (GUtech)	16:40 - 17:00 PRESENTATION AI-Augmented Renewable Energy Governance: An Institutional Framework for Cross Border Policy Harmonisation ----- Ali Angelo Angelo Climate and Sustainability Advisory	



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MASTERCLASSES & WORKSHOPS

PROGRAMME AGENDA

14-16 SEPTEMBER
2026

MEETING ROOMS 8-14, OCEC MUSCAT

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MASTERCLASSES & WORKSHOPS PROGRAMME

14–16 SEPTEMBER 2026 · OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT · MEETING ROOMS 8–14

PROGRAMME AT A GLANCE

	TIME	ROOM	SESSION	LED BY		TIME	ROOM	SESSION	LED BY
DAY 2	10:00 - 12:00	Room 9	The Last Drop Cafe (Session 1)	Zainab Al-Lawati	DAY 3	09:00 - 12:00	Room 8 & 9	Energy Efficiency in Oman's Built Environment: From National Strategy to Practical Building Design	Hafsa Mohammed Albalushi +3
DAY 2	13:00 - 16:00	Room 10	Industrial Digital Twins in Practice: Bridging Simulation, AI, and Value in the 4IR–5IR Era	Mehrnoosh Nickpasand	DAY 3	09:00 - 12:00	Room 12	From Shaheen to the Global Standard: An Analytical Reading of North Al Batinah Governorate's Experience in Greening Education	Dr. Anisa Al-Kiyumi +1
DAY 2	13:00 - 16:00	Room 8 & 9	Project Bankability for Climate Finance	Riccardo Ambrosini	DAY 3	12:00 - 15:00	Room 12	Building the Readiness and Psychological Resilience of the Educational Community to Adapt to Climate Change	Dr. Saif Al Saadi
DAY 2	13:00 - 16:00	Room 11	When Nature Redraws the Map: Geospatial Analysis as an Approach to Designing and Locating Climate-Resilient Schools in the Gulf	Dr. Moza Al-Shayadi	DAY 3	14:00 - 16:00	Room 10 & 11	HyTEA: A Decision Support Tool for Optimising the Green Hydrogen Value Chain	Prof. Rory Monaghan +1
DAY 3	09:00 - 13:00	Room 13 & 14	Paris Agreement Crediting Mechanism (Article 6) Masterclass	Mohammed Al Shuaili +5	DAY 3	16:00 - 18:00	Room 12	The Last Drop Cafe (Session 2)	Zainab Al-Lawati
DAY 3	09:00 - 11:00	Room 10 & 11	Climate Fresk Workshop	Amna Al Ghusaini +8					

Hands-on masterclasses and workshops run in the meeting rooms on Days 2 and 3, alongside the Strategic and Scientific Conferences. Seats are limited — register on the OCW app.

10:00 - 12:00

ROOM 9

WORKSHOP

The Last Drop Cafe (Session 1)

Discover how everyday choices influence the waste we generate. Experience sustainability and the circular economy through play, teamwork, and friendly competition.



WORKSHOP INSTRUCTOR

Zainab Al-Lawati

Founder

Estidama Events

13:00 - 16:00

ROOM 10

MASTERCLASS

Industrial Digital Twins in Practice: Bridging Simulation, AI, and Value in the 4IR–5IR Era

Explore how simulation and AI are bridging value across the 4IR–5IR era, with practical insight into applying digital twin technology in industrial and climate contexts.



MASTERCLASS LEAD

Mehrnoosh Nickpasand

Chief Strategy Officer & Founder

Menosphere, Denmark



13:00 - 16:00

ROOM 8 & 9

MASTERCLASS

Project Bankability for Climate Finance

Explore how investors and financial institutions evaluate climate-related investments — straight from an IFC Senior Investment Officer.



MASTERCLASS LEAD

Riccardo Ambrosini

Senior Investment Officer – Climate Finance

International Finance Corporation (IFC)



13:00 - 16:00

ROOM 11

MASTERCLASS

When Nature Redraws the Map: Geospatial Analysis as an Approach to Designing and Locating Climate-Resilient Schools in the Gulf

Discover how we can use data to build schools that are safer, smarter, and ready for the future.



MASTERCLASS LEAD

Dr. Moza Al-Shayadi

Head of the Training and Qualification
Department

Ministry of Education



09:00 - 13:00

ROOM 13 & 14

MASTERCLASS

Paris Agreement Crediting Mechanism (Article 6) Masterclass

Get a comprehensive introduction to PACM, Article 6.4's successor to the CDM — its global value, governance framework, and practical pathway to adoption in Oman. Delivered by experts from the Oman Net Zero Centre, UNFCCC Secretariat, and UNFCCC Regional Collaboration Centre for MENA and South Asia.

RUN OF SHOW

09:00 - 09:15 Mohammed Al Shuaili *Opening remarks*

10:15 - 12:15 Umamaheswaran Krishnan

09:15 - 09:35 Dr. Said Al-Sarmi

12:15 - 12:50 Dr. Said Al-Sarmi & Perumal Arumugam (virtual)

09:35 - 10:15 Seoyoung Lim (virtual)

12:50 - 13:00 Eng. Suleiman Nasser Al Akzami *Closing*

SPEAKER

Mohammed Al Shuaili

VP Carbon Market and Green Certificate

Oman Net Zero Centre (ONZC)



SPEAKER

Dr. Said Al-Sarmi

Article 6.4 DNA Focal Point, Sultanate of Oman

Oman Net Zero Centre (ONZC)



SPEAKER

Seoyoung Lim

Program Officer, Mitigation Division

UNFCCC Secretariat (virtual)



SPEAKER

Umamaheswaran Krishnan

Article 6 and Carbon Pricing Regional Expert

UNFCCC Regional Collaboration Centre for MENA and South Asia



SPEAKER

Perumal Arumugam

Manager, Mitigation Division

UNFCCC Secretariat (virtual)



SPEAKER

Eng. Suleiman Nasser Al Akzami

Vice President

Environment Authority



09:00 - 12:00

ROOM 8 & 9

MASTERCLASS

Energy Efficiency in Oman's Built Environment: From National Strategy to Practical Building Design

Explore energy efficiency in Oman's built environment, bridging national strategy with practical building design — a must for architects, engineers, and planners aligning their work with Oman's sustainability goals.



MASTERCLASS LEAD

Hafsa Mohammed Albalushi

Acting Director of Spatial Strategy, D.G. of Urban Planning

Ministry of Housing and Urban Planning



SPEAKER

Dr. Asma Al Maqbali

Energy Efficiency and Sustainability Professional

Oman Net Zero Centre (ONZC), Ministry of Energy and Minerals



SPEAKER

Eng. Mohammed Al Mufargi

Architectural Engineer, D.G. of Urban Planning

Ministry of Housing and Urban Planning



SPEAKER

Dr. Rabie Al Rahbi

Director of the Environmental Standards Center

Environment Authority



WEDNESDAY 16 SEPTEMBER 2026

09:00 - 11:00

ROOM 10 & 11

WORKSHOP

Climate Fresk Workshop

Unpacking the science and solutions of climate change through IPCC-based card mapping and team discussion.



LEAD FACILITATOR

Amna Al GhusainiOmani Environmental
Engineer and
Sustainability
Advocate

Climate Fresk Oman



CO-FACILITATOR

Ghaliya Al AlawiResearch Assistant
Climate Fresk Oman

CO-FACILITATOR

Atika Al HinaiPresident of the
Evergreen Club
Climate Fresk Oman

CO-FACILITATOR

Neha GeelRegional Workshop
Facilitator
Climate Fresk Oman

CO-FACILITATOR

**Abdullah Al
Siyabi**Climate Fresk
Facilitator

Climate Fresk Oman



CO-FACILITATOR

Nawar AlafifiClimate Fresk
Facilitator
Climate Fresk Oman

CO-FACILITATOR

Noof AlmujaaniClimate Fresk
Facilitator
Climate Fresk Oman

CO-FACILITATOR

Breira AbdullahClimate Fresk
Facilitator
Climate Fresk Oman

CO-FACILITATOR

Sridhar SharmaCo-Founder &
Managing Director
Teams International

09:00 - 12:00

ROOM 12

MASTERCLASS

From Shaheen to the Global Standard: An Analytical
Reading of North Al Batinah Governorate's Experience
in Greening Education

A look at North Al Batinah Governorate's journey in greening education, and how schools and universities can embed sustainability into their strategies and everyday practice.



MASTERCLASS LEAD

Dr. Anisa Al-KiyumiHead of the Educational Activities Department
Directorate General of Education, North Al
Batinah, Ministry of Education

SPEAKER

Dr. Khamis Al-MazroueiAdministrative Expert
Directorate General of Education, North Al
Batinah, Ministry of Education

12:00 - 15:00

ROOM 12

MASTERCLASS

Building the Readiness and Psychological Resilience of the Educational Community to Adapt to Climate
Change

Explore how schools and universities can build the readiness and psychological resilience of their communities to adapt to climate change.



MASTERCLASS LEAD

Dr. Saif Al SaadiCertified Trainer in Educational Leadership and
Institutional Development
Ministry of Education

WEDNESDAY 16 SEPTEMBER 2026

14:00 - 16:00

ROOM 10 & 11

MASTERCLASS

HyTEA: A Decision Support Tool for Optimising the Green Hydrogen Value Chain

Explore HyTEA, a decision support tool for optimizing planning and investment decisions across the green hydrogen value chain — led by a Professor in Energy Systems Engineering from the University of Galway.



MASTERCLASS LEAD

Prof. Rory Monaghan

Professor in Energy Systems Engineering
University of Galway, Ireland



SPEAKER

Dr. Haresankar Jayasankar

Postdoctoral Researcher
University of Galway, Ireland



16:00 - 18:00

ROOM 12

WORKSHOP

The Last Drop Cafe (Session 2)

Discover how everyday choices influence the waste we generate. Experience sustainability and the circular economy through play, teamwork, and friendly competition.



WORKSHOP INSTRUCTOR

Zainab Al-Lawati

Founder
Estidama Events



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WOMEN AND CLIMATE SUMMIT

PROGRAMME AGENDA

15 SEPTEMBER
2026

6:00 PM - 9:00 PM
OCEC MUSCAT (HALL: 2)
CLIMATE SUMMIT STAGE

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18:00 - 18:05

Guests Reception

18:05 - 18:40

Opening Keynotes

KEYNOTE ADDRESS

5'



HE. Dr. Abdullah bin Abdullah Al Amri
Chairman
Environment Authority



RECORDED MESSAGE

10'



Amina J. Mohammed
Deputy Secretary-General
United Nations



KEYNOTE SPEECH

10'



Dr. Shezra Mansab Ali Khan Kharal
State Minister for Climate Change
Pakistan



KEYNOTE SPEECH

10'



Sheikha Amna Al Thani
Founder & CEO
Strategy Hub, Qatar



18:40 - 19:10

Panel 1: Women Driving Sustainability — Leadership, Innovation & Impact

Exploring the role of women in advancing sustainability across industries, focusing on leadership, innovation and practical impact.

MODERATOR

Dr. Amna Al Saadi

Head of Urban Planning &
Environmental Management

Global College of Engineering
and Technology (GCET)



Shada N. El-Sharif

MPA, MEng · Founder & CEO, SustainMENA · Senior Advisor, Green
Economy, Investment & Finance

SustainMENA



Dr. Laila Said Al Harthy

Head of Botany and Conservation

Oman Botanic Garden



Dr. Amal Mohammed Al-Malki

Associate Professor, College of Humanities & Social Sciences

Hamad Bin Khalifa University (HBKU)



19:10 - 19:20

Keynote Speech

KEYNOTE SPEECH

10'

**H.E. Zehra Zümrüt Selçuk**

Director General

SESRIC



19:20 - 19:50

Panel 2: Women in Climate Action — Challenges, Resilience & the Path Forward

Climate change from a human and societal perspective, highlighting the role of women in addressing challenges and driving resilience.

MODERATOR

Nashwa Al Rawahy

Director

ESO / HMR Consultants

**Sidra Riaz**

Award-winning Climate Justice Activist & Presidential Doctoral Fellow

Florida International University, USA

**H.E. Nouf Ali Behbehani**

Acting Director General

Environment Public Authority (EPA), Kuwait

**Zahra Ali Al Bakri**

Founder & CEO

Majan Modern Solutions



19:50 - 20:20

ACKNOWLEDGEMENT & RECOGNITION

20:20 - 21:00

GALA DINNER & NETWORKING



WOMEN IN CLIMATE SUMMIT · 15 SEPTEMBER 2026





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MEETING ROOMS

8 - 14

PROGRAMME AGENDA

14 • 16 SEPTEMBER
2026

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OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT

MEETING ROOMS 8–14

14–16 SEPTEMBER 2026 · OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT

Everything taking place in Meeting Rooms 8–14 over the three days, drawn from the three programmes that use them: the Sustainable Waste Management conference (SWM2026), the Renewable Energy and Climate Change conference (RECC 2026) and the Masterclasses & Workshops.

ROOMS AT A GLANCE

	DAY 1 14 September 2026	DAY 2 15 September 2026	DAY 3 16 September 2026
ROOM 8	RECC 2026 14:00 – 16:40 1 block	MASTERCLASS 13:00 – 16:00 1 block	MASTERCLASS 09:00 – 12:00 1 block
ROOM 9	RECC 2026 14:00 – 16:40 1 block	WORKSHOP MASTERCLASS 10:00 – 16:00 2 blocks	MASTERCLASS 09:00 – 12:00 1 block
ROOM 10	RECC 2026 14:00 – 16:40 1 block	RECC 2026 MASTERCLASS 10:00 – 16:00 2 blocks	WORKSHOP MASTERCLASS 09:00 – 16:00 2 blocks
ROOM 11	RECC 2026 14:00 – 16:40 1 block	RECC 2026 MASTERCLASS 10:00 – 16:00 2 blocks	WORKSHOP MASTERCLASS 09:00 – 16:00 2 blocks
ROOM 12	SWM2026 11:30 – 17:00 1 block	SWM2026 11:00 – 17:15 1 block	MASTERCLASS WORKSHOP 09:00 – 18:00 3 blocks
ROOM 13	SWM2026 11:30 – 17:00 1 block	SWM2026 09:00 – 16:30 2 blocks	MASTERCLASS RECC 2026 09:00 – 17:00 2 blocks
ROOM 14	SWM2026 11:30 – 17:00 1 block	SWM2026 09:00 – 16:45 2 blocks	MASTERCLASS RECC 2026 09:00 – 17:00 2 blocks

DAY
1

PROGRAMME AGENDA — MEETING ROOMS

MONDAY 14 SEPTEMBER 2026

ROOM
8

14:00 – 16:40

RECC 2026

Theme 1: Climate Change Impacts and Resilience

8 presentations

Chair: Prof. Sayyad Zahid Qamar · Co-Chair: Dr. Morteza Mohammadzaheri

ROOM
9

14:00 – 16:40

RECC 2026

Theme 2: Renewable Energy Deployment

8 presentations

Chair: Mohammad Reza Nikoo · Co-Chair: Mohammed Al Thani

ROOM
10

14:00 – 16:40

RECC 2026

Theme 3: Green Hydrogen and Low-Carbon Fuels

8 presentations

Chair: Dr. Nasser Al Rizeiqi · Co-Chair: Navid Nasiri

ROOM
11

14:00 – 16:40

RECC 2026

Theme 4: Digital and AI-Enabled Climate Solutions

8 presentations

Chair: Dr. Saleh Salim Al Araiimi · Co-Chair: Zohreh Rafiei Samani

ROOM
12

11:30 – 17:00

SWM 2026

Circular Economy, Governance, Digitalization & Industrial Deployment

12 presentations · Dr. Jinendrika Anushi Weliwita, Dr. Mohamed El-Khatib, Sergio Brihuega Moreno

ROOM
13

11:30 – 17:00

SWM 2026

Waste-to-Energy, Fuels, Catalysis & CCUS

12 presentations · Dr. Murid Hussain, Dr. Seyed Sadrameli, Dr. Sergey Serry

ROOM
14

11:30 – 17:00

SWM 2026

Urban Mining, Circular Materials, Construction & Resource Recovery

12 presentations · Prof. Hussein A. Kazem, Dr. Farrukh Jamil, Roberta Milagres de Oliveira

ROOM
813:00 – 16:00 **MASTERCLASS** ROOMS 8 & 9**Project Bankability for Climate Finance**
Riccardo AmbrosiniROOM
910:00 – 12:00 **WORKSHOP****The Last Drop Cafe (Session 1)**
Zainab Al-Lawati13:00 – 16:00 **MASTERCLASS** ROOMS 8 & 9**Project Bankability for Climate Finance**
Riccardo AmbrosiniROOM
1010:00 – 11:40 **RECC 2026****Theme 3: Green Hydrogen and Low-Carbon Fuels**
5 presentations
Chair: Prof. Hind Barghash · Co-Chair: Gholamreza Vakilinejad13:00 – 16:00 **MASTERCLASS****Industrial Digital Twins in Practice: Bridging Simulation, AI, and Value in the 4IR–5IR Era**
Mehrnoosh NickpasandROOM
1110:00 – 11:40 **RECC 2026****Theme 4: Digital and AI-Enabled Climate Solutions**
5 presentations
Chair: Dr. Suresh Manic · Co-Chair: Dr. Mohammad Reza Khosravani13:00 – 16:00 **MASTERCLASS****When Nature Redraws the Map: Geospatial Analysis as an Approach to Designing and Locating Climate-Resilient Schools in the Gulf**
Dr. Moza Al-ShayadiROOM
1211:00 – 17:15 **SWM2026****Circular Economy, Governance, Digitalization & Industrial System**
20 presentationsROOM
1309:00 – 10:30 **SWM2026** ROOMS 13 & 14**Keynote Speeches**
Dr. Amal Salim Al Rahbi · Prof. Su Shiung Lam · Prof. Maria Loizidou11:00 – 16:30 **SWM2026****Waste-to-Energy, Bioenergy & Environmental Technologies**
16 presentationsROOM
1409:00 – 10:30 **SWM2026** ROOMS 13 & 14**Keynote Speeches**
Dr. Amal Salim Al Rahbi · Prof. Su Shiung Lam · Prof. Maria Loizidou11:00 – 16:45 **SWM2026****Circular Materials, Construction & Resource Recovery**
17 presentations

ROOM
809:00 – 12:00 **MASTERCLASS** ROOMS 8 & 9**Energy Efficiency in Oman's Built Environment: From National Strategy to Practical Building Design**

Hafsa Mohammed Albalushi +3

ROOM
909:00 – 12:00 **MASTERCLASS** ROOMS 8 & 9**Energy Efficiency in Oman's Built Environment: From National Strategy to Practical Building Design**

Hafsa Mohammed Albalushi +3

ROOM
1009:00 – 11:00 **WORKSHOP** ROOMS 10 & 11**Climate Fresk Workshop**

Amna Al Ghusaini +8

14:00 – 16:00 **MASTERCLASS** ROOMS 10 & 11**HyTEA: A Decision Support Tool for Optimising the Green Hydrogen Value Chain**

Prof. Rory Monaghan +1

ROOM
1109:00 – 11:00 **WORKSHOP** ROOMS 10 & 11**Climate Fresk Workshop**

Amna Al Ghusaini +8

14:00 – 16:00 **MASTERCLASS** ROOMS 10 & 11**HyTEA: A Decision Support Tool for Optimising the Green Hydrogen Value Chain**

Prof. Rory Monaghan +1

ROOM
1209:00 – 12:00 **MASTERCLASS****From Shaheen to the Global Standard: An Analytical Reading of North Al Batinah Governorate's Experience in Greening Education**

Dr. Anisa Al-Kiyumi +1

12:00 – 15:00 **MASTERCLASS****Building the Readiness and Psychological Resilience of the Educational Community to Adapt to Climate Change**

Dr. Saif Al Saadi

16:00 – 18:00 **WORKSHOP****The Last Drop Cafe (Session 2)**

Zainab Al-Lawati

ROOM
1309:00 – 13:00 **MASTERCLASS** ROOMS 13 & 14**Paris Agreement Crediting Mechanism (Article 6) Masterclass**

Mohammed Al Shuaili +5

15:00 – 17:00 **RECC 2026** ROOMS 13 & 14**Theme 2: Renewable Energy Deployment**

6 presentations

Chair: Dr. Maryam Al Kalbani · Co-Chair: Shams Anwar

ROOM
1409:00 – 13:00 **MASTERCLASS** ROOMS 13 & 14**Paris Agreement Crediting Mechanism (Article 6) Masterclass**

Mohammed Al Shuaili +5

15:00 – 17:00 **RECC 2026** ROOMS 13 & 14**Theme 2: Renewable Energy Deployment**

6 presentations

Chair: Dr. Maryam Al Kalbani · Co-Chair: Shams Anwar