

TWAS-AREP Young Scientists Training Program
Path Ways to Green Transition in the Arab Region
23-24 September 2025
Hybrid Workshop*

Day 1: Tuesday 23 September 2025	
9:30–10:00 am	Registration + Welcome
10:00 – 10:30 am	Opening Session The Importance of Green Transition for a Sustainable Future in the Arab Region • Prof. Ahmed Zayed, Director, Bibliotheca Alexandrina and TWAS-AREP Coordinator • H.E. Prof. Adel El-Beltagy, Former Minister of Agriculture and Land Reclamation of Egypt; and Former TWAS Council Member for the Arab Region (Egypt) (Online)
<i>Group Photo</i>	
10:30 – 11:30 am	Workshop Orientation Session and Participants Introduction Ms. Israa Elfayoumi, Acting Head, Researchers' Support and Development Unit, Center for Special Studies and Programs, Bibliotheca Alexandrina (Egypt)
11:30 am – 1:00 pm	Session 1: Green Technologies and Newly Emerging Technologies: Strategies for Sustainable Development in the Arab region <i>The session will discuss the technology transfer strategies that will help the Arab Region use the green and newly emerging technologies. By using these strategies, Arab countries can adopt clean energy, improve water and waste management, and use smart technologies. It will also give examples on how these strategies can solve local problems, reduce pollution, save resources, and build a stronger, greener future.</i> Moderator: H.E. Prof. Yousry El Gamal, Former Minister of Education (Egypt) • H.E. Prof. Adel El-Beltagy, Former Minister of Agriculture and Land Reclamation (Egypt) (Online) Presentation Title: "Rising to the Challenges of Climate Change: Navigation through Uncertainty.. A Journey of Hope and Commitment" • Prof. Hussein Abaza, International Advisor, Sustainable Development and Green Economy and Former Director at UNEP (Egypt) Presentation Title: "Transition to a Green Economy in the Arab Region- Opportunities and Challenges"
1:00 – 1:30 pm	Coffee Break

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1:30 – 3:00 pm	Session 2: Innovation and Green Technology <i>This session defines innovative research using the Green technology and how researchers can transform research into real-world solution by exploring the early stages of applied research, and discuss fundamentals of research leading to potential applications.</i> • Prof. Dina Elgayar, Professor of Chemical Engineering, Faculty of Engineering, Alexandria University (Egypt) Presentation Title: Scientific Research, Innovation, and a Knowledge-Based Economy • Assoc. Prof. Alya Arabi, Associate Professor, Biochemistry Department, College of Medicine and Health Sciences United Arab Emirates University (UAE) Presentation Title: “Driving Innovation through Green Technology, Computational Sciences, and Artificial Intelligence”
3:00 – 4:00 pm	Session 3: Water Systems Management: How Green Transition Can help Solving Water Scarcity <i>The session will discuss how the green transition can help manage water better. It will shed light on current project and initiatives in different fields, specially water management, renewable energy and green energy, will help solving water shortages and supports a healthier environment. It will also give examples on future trends in natural resources management using the green technology.</i> • H.E. Prof. Hussein El-Atfy, Secretary General, Arab Water Council-AWC (Egypt) Presentation Title: “Importance of Green Transition in Enhancing Water Scarcity Management and Sustainability: The Case of the Arab Region” Presented by Prof. Andin Salih. • Prof. Abdin Salih, Director, Arab Water Academy, The Arab Water Council (Egypt) Presentation Title: “Capacity Development in the Water Sector for Green Transition in the Arab Region: Challenges and Opportunities”
4:00 – 5:00 pm	Lunch

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Day 2: Wednesday, 24 September 2025	
10:00 – 11:00 am	Session 4: Climate Change Adaptation: Green Transition and Reducing Risks <i>This session will discuss how the green transition helps reduce the problems that causes climate change, and how it helps makes safer and cleaner environments by using green energy and sustainable practices. It will also discuss how Arab countries can better adapt to climate change, reduce risks, and protect their people and ecosystems for a sustainable future.</i> • Prof. Mohamed Abdrabo, Head, Alexandria Research Center, for Climate Change Adaptation, Institute of Graduate Studies and Research, Alexandria University (Egypt)
11:00 am – 12:30 pm	Session 5: Green Energy: A Way Forward for a Sustainable Future in the Arab Region <i>This session will discuss the green energy that helps protect nature and wildlife by reducing their pollution and damage. Using green energy helps keep ecosystems healthy and supports the survival of many different species, preserving biodiversity for future generations. The session will discuss as well how the waste management can work with the renewable energy to help the environment. Using waste to produce renewable energy helps reduce landfill problems and supports a cleaner, healthier and sustainable Arab region.</i> • Prof. Jauad El Kharraz, CEO, Water-Energy-Climate Expert Network (Morocco) (Online) Presentation Title: “Energy Transition Pathways in the Arab Region: Unleashing a Sustainable Future” • Prof. Sherien Elagroudy, Professor of Environmental Engineering; and Founding Director, Egypt Solid Waste Management Center of Excellence-ESWMCE, Ain Shams University (Egypt) (Online) • Presentation Title: “From Solid Waste to Sustainable Energy: Advancing the Green Transition in the Arab Region”
12:30 – 1:00 pm	Coffee Break

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1:00 – 2:00 pm	Session 6: Is Innovation a Luxury Reserved for the Wealthy? • Prof. Ramy Aziz, Head, MARC Biosciences Research Laboratories (Egypt) (Online)
2:00 – 2:30 pm	Closing Session Participants Feedback
2:30 – 3:30 pm	Tour at Bibliotheca Alexandrina
3:30 – 4:30 pm	Lunch

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