



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	Ibn Tofail University
<b>Submission title or project name</b>	Towards Water Autonomy: A Water Treatment Project
<b>Nominee / key personnel</b>	
<b>URL</b>	<a href="https://sd.uit.ac.ma/mise-en-place-dune-station-de-traitement-depuration-et-de-recyclage-des-eaux-usees/">https://sd.uit.ac.ma/mise-en-place-dune-station-de-traitement-depuration-et-de-recyclage-des-eaux-usees/</a>
<b>Submission</b>	<p>In a country facing water scarcity and climate change challenges, Ibn Tofail University took a bold stance, addressing these issues with innovative solutions. Their flagship project, a wastewater treatment station developed in collaboration with WATEC, showcased their commitment to sustainability. With a capacity of 200 m<sup>3</sup>/day, the station not only made the university self-sufficient in waste treatment, but also pioneered the use of treated water for campus irrigation.</p> <p>Beyond campus borders, the project's impact extended region-wide, reducing water pollution, protecting public health and promoting environmental awareness. Notably, the university's dedication led to the construction of a wastewater treatment station in Tafinghout, demonstrating their unwavering commitment to positive environmental change. Ibn Tofail University's project symbolises visionary leadership, innovation and a steadfast commitment to a brighter, more sustainable future.</p>



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	Qatar University
<b>Submission title or project name</b>	MENA Business Schools Alliance for Sustainability (MEBAS)
<b>Nominee / key personnel</b>	College of Business and Economics
<b>URL</b>	
<b>Submission</b>	<p>Business schools play a pivotal role in advocating for sustainable business practices. The MENA Business Schools Alliance for Sustainability (MEBAS), comprising 15 AACSB accredited institutions, aims to address unique regional challenges by fostering collaboration and knowledge exchange. Launched by Qatar University's College of Business and Economics, MEBAS facilitates seamless cooperation in curriculum, research and community engagement. By leveraging the talent and resources of member schools, MEBAS endeavours to remain at the forefront of sustainability education and drive sustainable practices across the broader business community.</p> <p>Students and faculty from these 15 colleges are actively participating in myriad activities, including workshops, competitions, conferences, collaborative research projects and community-building efforts. Colleges are building strategic partnerships with key stakeholders from outside academia. Together, we are not only nurturing a vibrant community of scholars but empowering the next generation of business leaders to shape the future of sustainability in the region and beyond.</p>



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	The British University in Egypt
<b>Submission title or project name</b>	COP Simulation
<b>Nominee / key personnel</b>	Dr Sarah Elkhishin, Head of COP Simulation
<b>URL</b>	<a href="https://www.bue.edu.eg/about-cop-simulation">https://www.bue.edu.eg/about-cop-simulation</a>
<b>Submission</b>	<p>The COP Simulation, an annual youth-led climate conference organised by the British University in Egypt and the UNDP, brings together 130 students worldwide to simulate the COP. Two events were organised: COP27 Simulation and COP28 Simulation. Activities included a two-week online capacity-building programme, research on climate and environment, mock conference and attending the actual COP.</p> <p>The COP Simulation empowers youth with: knowledge and transferable skills in climate literacy and international climate action, diplomacy, negotiations and conflict resolution; cultural exposure - interaction with participants from diverse backgrounds; and leadership skills learned from presenting their Declaration at real COP sessions (Blue and Green Zones). Participants take part in project design and implementation to utilise creativity and innovation skills.</p> <p>The COP Simulation platform is a knowledge-sharing hub to ensure sustainability and transferability of outcomes. The impactful initiative aligns with University Strategy priorities: supporting SDGs and engaging students to become future leaders and change agents.</p>



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	October University for Modern Sciences and Arts University (MSA)
<b>Submission title or project name</b>	Real-time Water Quality Network for Monitoring and Analysing Marine Pollution: Case Study of Umum Drain in Alexandria
<b>Nominee / key personnel</b>	Dr Said Mabrouk; Dr Waleed Elnahaal; Eng. Ahmed Tawfik; Eng. Mahmoud Gaafar; Eng. Elsayed Elkady; Dr Ahmed Elnemr; Dr Mohamed Hassan
<b>URL</b>	<a href="https://msa.edu.eg/msauniversity/student-life/campus-news/implementation-of-real-time-water-quality-monitoring-station">https://msa.edu.eg/msauniversity/student-life/campus-news/implementation-of-real-time-water-quality-monitoring-station</a>
<b>Submission</b>	<p>The October University for Modern Sciences and Arts, in collaboration with the National Institute of Oceanography and Fisheries and funded by the Academy of Scientific Research and Technology, has designed and implemented an automated network for monitoring and analysing pollution in the Mediterranean Sea waters.</p> <p>It has created a real-time monitoring network for water quality of agricultural and industrial wastewater that covers the main stream part of the Umum Drain before the water enters Mariut Lake and is finally discharged into El Mex Bay, located west of Alexandria, Egypt. The station monitors and records metrics such as pH, salinity, dissolved oxygen, temperature and others. These data are collected through a central software unit that displays, interprets and analyses the data from all the stations connected to the network and calculates a water quality index, according to Egyptian environmental law.</p>



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	Al-Balqa Applied University
<b>Submission title or project name</b>	Innovative Smart Agricultural Practices: Reality and Challenges
<b>Nominee / key personnel</b>	Professor Amal Al-Abbadi, Dean of Faculty of Agricultural Technology; Dr Issam Qrunfleh, Vice Dean of Agricultural Research Station; Eng. Rola Al-Taleb; Professor Dr Ahmed Fakhry Al-Ajlouni, President; Professor Haitham Al-Shibly, Vice President
<b>URL</b>	<a href="https://www.bau.edu.jo/bauar/Colleges/Agr/Home.aspx">https://www.bau.edu.jo/bauar/Colleges/Agr/Home.aspx</a>
<b>Submission</b>	<p>The Faculty of Agricultural Technology (FAT) has launched an initiative for innovative smart agricultural practices to address sector challenges. With limited resources and declining soil fertility, the FAT has implemented creative solutions to enhance productivity and sustainability. Compost production from organic waste has improved soil quality, reduced water usage and increased agricultural output. Aloe vera cultivation with low water requirements has been initiated, along with the production of aloe vera soap and gel. Beekeeping has also been expanded, with a focus on enhancing flower pollination and agricultural yields.</p> <p>To support innovation in agriculture, the FAT has introduced the Smart Organic Agriculture Technology/Technical Bachelor's, preparing students for sector challenges. Partnerships with private companies and organisations have been established through the Agricultural Conference: Innovative Agriculture for Food Security. A Smart Agriculture Unit has been created for practical learning. The FAT continues to seek collaborations for afforestation, environmental systems and capacity building projects.</p>



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	Nile University
<b>Submission title or project name</b>	Development and Manufacturing of Soft-Actuated Underwater Robots
<b>Nominee / key personnel</b>	Professor Ahmed Gomaa Radwan, Professor, Vice President for Research and Dean of Graduate Studies
<b>URL</b>	<a href="https://bhsrl.nu.edu.eg/">https://bhsrl.nu.edu.eg/</a> "> <a href="https://bhsrl.nu.edu.eg/">https://bhsrl.nu.edu.eg/</a>
<b>Submission</b>	<p>The project's objective is to support researchers in acquiring a deeper understanding of the condition of Egypt's marine areas to facilitate the development of more effective strategies to ensure their preservation. The project has developed several significant soft robotic prototypes, including a soft robotic fish inspired by the Pangasius fish. The project has also investigated different types of manufacturing, materials and actuation methods to obtain the best solution for underwater soft robot manufacturing. The soft robotics knowledge has been transferred to other undergraduate students and researchers in Egypt through workshops and conferences.</p> <p>The project has established a soft robotics hub in Nile University and supervised four master's theses in Mechatronic and Microelectronics System Design related to the challenges in modelling, control, sensing and manufacturing of soft robotics. The project's results demonstrate significant achievements in developing, publishing and applying soft robotic technologies in Egypt.</p>



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	King Abdullah University of Science and Technology (KAUST)
<b>Submission title or project name</b>	KAUST Coral Restoration Initiative
<b>Nominee / key personnel</b>	Professor Mark Gillan, Associate Vice President, Technologies and Special Projects
<b>URL</b>	<a href="https://www.kaust.edu.sa/html/reefscape/">https://www.kaust.edu.sa/html/reefscape/</a>
<b>Submission</b>	<p>The King Abdullah University of Science and Technology's (KAUST) Coral Restoration Initiative (KCRI) in the Red Sea showcases KAUST's commitment to transferable innovative environmental solutions. Funded and developed by KAUST, the project's primary focus is on restoring, enhancing and preserving coral reef ecosystems. Phase 1 of the project is under way and will be the largest coral restoration project in the world, representing a significant step towards restoring reefs globally. Ambitious targets for 2030 include restoring 100 hectares of coral reef and outplanting 2 million corals at Shushah Island in NEOM.</p> <p>The project brings together KAUST research and global innovations, such as developing a digital twin for coral reefs and heat-blocking coral solutions to protect from bleaching. KCRI also invests in capacity building by nurturing nascent marine biologist talent through programmes like the Saudi Talent Development Programme.</p>



# Awards Arab World 2024

## Outstanding Contribution to Environmental Leadership

<b>Institution Name</b>	The University of Jordan
<b>Submission title or project name</b>	Nature-based Solutions for Domestic Water Reuse in Mediterranean Countries
<b>Nominee / key personnel</b>	Professor Ahmed Al-Salaymeh
<b>URL</b>	<a href="https://www.enicbcmed.eu/projects/nawamed">https://www.enicbcmed.eu/projects/nawamed</a>
<b>Submission</b>	<p>This is one of the pilot schemes carried out within the Nature-based Solutions for Domestic Water Reuse in Mediterranean Countries (NAWAMED) project, a research project funded by the EU ENI CBC MED programme aimed at demonstrating the technical and economic feasibility of nature-based solutions for treating non-conventional water resources in schools, universities and public facilities.</p> <p>The pilot project focuses on the treatment of greywater from the student dormitory facilities (showers and washbasins) in the Al-Zahra'a Dormitory of the University of Jordan using green wall technology. The green facade, consisting of trenches planted with specific vegetation and climbing plants, collects water percolating through the wall and collects it in a tank for reuse. The system stores and disinfects water for toilet flushing and irrigation, recovering up to 1,530 m<sup>3</sup>/year.</p>