



Alexandria University participates in the Forum of Activities and Events of Egyptian Public Universities to Confront Climate Change 2022

Under the patronage of Dr. Ayman Ashour, Minister of Higher Education and Scientific Research, and the Supreme Council of Universities, Alexandria University participated in the Forum of Activities and Events of Egyptian Public Universities to Confront Climate Change 2022.

Prof. Konsowa, the President of Alexandria University, indicated that the university participated in the forum's work with a set of research topics in the field of climate change and relevant applied projects, including:

- uses of green hydrogen and green ammonia in the fertilizer industry,
- establishment of a company for energy and water services, and
- localization of the electric car industry in Egypt.
- role of the Suez Canal in reducing carbon emissions at the global level,
- establishment of the Alexandria University Center for the blue-green economy,
- the role of Egypt as a regional center for energy and the establishment of the Alexandria University Center for Sustainable Development.



Prof. Konsowa added that the forum discussed the main axes of climate change issues and its impacts on various sectors in Egypt and the world as well as the mechanisms of adaptation and mitigation, stressing on the need for cooperation and support for scientific research in various environmental fields to confront the negative effects of climate change.

AS a side event events, the minister inspected the exhibition section forum, which contains models of applied projects from Egyptian public universities related to the axes of climate change, and

miniature models of scientific research outputs from public universities in the areas of facing climate changes and natural sustainability, as well as applied research posters from public universities. Linked to the axes of climate change.

The recommendations of the forum were as follows:

- The Universities Forum to be held periodically in the presence of industry sector and civil society to facilitate partnerships based on directing innovation in the fields of green industries and the green economy.
- Preparing a document to combat climate change that includes all Egyptian universities. The document includes general strategic lines to assist universities in drawing a clear roadmap to provide solutions to limit or adapt to climate changes.
- Establishing companies specialized in energy and water in Egyptian universities.
- Establishing an observatory and a unified database at the level of Egyptian universities to follow up the international and local publication of research in the areas of climate change, activating the national strategy for property rights and encouraging patents in this field
- Establishing a national centre for integrated studies in the field of climate change.
- Strengthening early warning systems and forecasting climate changes to reduce their risks and help develop plans to confront them.
- Motivating Egyptian universities to promote and improve the educational environment to keep pace with fourth-generation universities and create an atmosphere that contributes to creativity and innovation.
- Encouraging researchers to conduct applied scientific research in the areas of climate change.
- Creating a green environment within the university community.
- The necessity of establishing a sustainability centre in each university.
- Follow on with the project of protecting Egyptian antiquities.
- Establishing cooperation protocols between Egyptian public universities and the Egyptian Association for the Protection of Beaches.
- Maximizing the utilization of industrial, agricultural, animal and solid waste.
- Maximizing the utilization of rice straw in the production of weather-resistant plastic lumber.
- Promote the development of varieties of crops that are resistant to climatic fluctuations.
- Adopting a national project to study and document the genetic diversity of wild plants that are threatened with extinction.
- The trend towards expanding the use of new and renewable energy sources, the use of organic farming systems, and the use of scientific innovations to reduce carbon emissions.
- Launching a number of initiatives, competitions and exhibitions to increase the dissemination of environmental awareness and ecotourism.
- Implementation of projects for harvesting and storing water and artificial recharge to charge groundwater in areas suitable for water harvesting.
- Converting lighting poles in universities and streets to the use of moving solar cells for lighting
- Adopting of the project idea to popularize the cultivation of jojoba plants on a large scale.

- Developing smart systems that work on a mobile application to regulate the charging of electric cars on the highways in Egypt.
- Interest in developing innovation in the field of energy storage and linking it to renewable energy systems.
- Using innovative technologies to desalinate brackish sea water based on renewable energy.