

13.3.5 University collaborate with NGOs on climate adaptation

Solar Energy Center at the Faculty of Agriculture (Alexandria University). This center works in collaboration with NGOs in Alexandria city to establish projects for climate adaptation. e.g.

- Hybrid Renewable Energy Systems to Supply Services in Rural Settlements of Mediterranean Partner Countries and its uses in water pumping and water desalination and development of remote and desert areas
 - Serving the Egyptian community by providing all renewable energy information to the public
 - Encouraging applied research on renewable energy at Alexandria University and through collaborations with other national and international universities.
 - Development of research in energy from biomass and waste.
 - Development of thermal uses of solar energy.
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- Under the supervision of Alexandria university and support the French Institute a group of Students, and members of NGOs, participated in a large-scale cleanup campaign at Anfouchi beach titled "Our Sea is Clean Without Trash". Following the cleanup, participants explored the process of transforming plastic waste into usable materials through 3D printing at the Fab Lab at Alexandria University. This initiative is part of the "Circular Economy: From the Beach to the Lab" project, led by the French Consulate and the French Institute, with financial backing from the European Union and collaboration with the Alexandria Governorate. The project aims to foster partnerships for sustainability and actively engage the local community in environmental efforts.



Discussing ways of cooperation between Alexandria University and the Vice President of the Climate Group at the University of Cambridge in Britain and the official for international cooperation in the COP26 university network on the issue of climate change and ways to enhance academic and research relations and aspects of joint cooperation in preparation for the COP27 conference. The attendees gave a presentation on Alexandria University's projects in the field of environmental sustainability in preparation for the COP27 climate conference, and included projects on the production of green and grey hydrogen, the design and manufacture of electric vehicles, the establishment of the Alexandria University Company for Energy and Water Services, and the establishment of an electronic components manufacturing center, in addition to preparing studies on diversifying energy sources. Egypt's role as a regional energy center and the contributions of the Suez Canal to reducing carbon emissions at the international level.

- A delegation from Alexandria University made to support the local community (fidderent NGOs) with a field visit to the water lifting stations in the Sidi Ghazi (Harith) Canal branching off from Lake Mariout to discuss how to provide **technical and scientific support** towards the phenomenon of **lake water leakage** and find scientific solutions to confront the problems. Water shortage and desertification to make the most of the lake. Alexandria University has paid great attention to Lake Mariout for more than 20 years, and has presented several studies as a house of expertise for major projects in Alexandria and its suburbs, and out of its belief in its role in serving and developing the Alexandrian community. These studies have been published in international journals, emphasizing the university's continued use of all its energy to develop it. These areas extend beyond the forum, and a set of goals have been identified during the coming period, which are to find solutions to the problem of water leakage from the lake, the problem of sewage, and the problem of paving the road connecting the village to the desert road, which is 5 kilometers long. During the day, the convoy carried out an awareness campaign in cooperation with the **Drug Control Fund**, during which leaflets were distributed, and a symposium was held to introduce the harms of drugs and smoking. In addition to other public seminars on health awareness, gynecological diseases, family planning methods, and a symposium on breast tumors, coinciding with World Cancer Day. The members of the convoy also carried out several different social and medical activities during the day, including a clinic for early detection of blood pressure and diabetes, where 118 blood pressure tests and 93 blood sugar tests were done, and 48 early detection of hepatitis C virus were done, affiliated



with the Ministry of Health, represented by the 100 Million Health campaign. In the same context, the university announced its intention to continue its efforts to confront poverty in those areas by sending a team to train women in sewing and embroidery and opening literacy classes for children and the elderly.

- Alexandria University launched its second campaign in the village of Abis 7 community , with the participation of the Alexandria Petroleum Additives Company (ACPA), the Holding Company for Drinking Water, the Sanitation Company, Nahdet Misr, the Egyptian Red Crescent Society, and the Fund for Combating and Treating Addiction and Abuse. On Saturday, December 25, 2021, the campaign targeted about 800 individuals from various groups, and 500 units (blankets and food commodities) were distributed to some of the neediest families. Activities also varied throughout the day, as the companies participated in the awareness campaign made an inventory of service needs in preparation. To solve it. The needs of various training programs to support human development in the village were also identified by the college's social responsibility team.



- Alexandria University launched an awareness campaign for the Abis 7 area, with the participation of the Holding Company for Drinking Water, the Sanitation Company, Nahdet Misr Company for Modern Environmental Services, the Egyptian Red Crescent Society, and the Fund for **Combating and Treating Addiction and Abuse**, on Saturday, December 11, 2021. The campaign included several activities with the people of the region, such as distributing awareness-raising publications to maintain brain health by the college's social responsibility team and organizing an awareness-raising activity about the danger of addiction within the activities of the "**Alexandria Without Addiction**" initiative. The water and sanitation companies also held interactive programs on the importance of water conservation and conservation, and the safe disposal of solid and liquid household waste, and conducted a number of craft workshops, including plumbing and soap making. They also contributed to bringing joy to children by participating in interactive games and distributing in-kind gifts to them and the women. The water company's logistical customer service vehicle was present, which received complaints from residents in the area. At the beginning of the meeting, the Egyptian Red Crescent Society was keen to sterilize the place and hold a symposium on the importance of precautionary measures against the Corona virus. It also organized a symposium on the principles of first aid, and Nahdet Misr Company for Modern Environmental Services carried out a cleaning campaign for the place and distributed an awareness brochure on the importance of safe disposal of garbage.