Al-Furat Al-Awsat Technical University (ATU)

https://en.atu.edu.iq/

Climate Action Plan

Issued on 1st February 2021

Al-Furat Al-Awsat Technical University (ATU) has taken decisive steps towards climate change, reducing on-campuses overall energy consumption rates and greenhouse gas emissions. Its actions went further to include local and national government and private faculties by offering free technical assistance and consultancy and running educational programs that support its goals. In this respect, ATU created its five-year Climate Action Plane (CAP) on the **1st February 2021**. The plan includes many projects that support sustainability in the first place and reduce climate change. Some projects are completed, while others are still progressing towards completion. Please refer to the actions listed below;

- ATU university emphasis implementing solar panels on all its eight campuses aiming to reduce greenhouse gas emissions. Nowadays, the total solar electricity generated in Al-Furat Al-Awsat Technical University (all campuses) is **5830KWh,** equal to **22%** of the overall electricity usage. **ATU is looking forward to switching to solar energy 100% by 2030.**

Examples of Solar panels installed on the roofs of buildings such as the main chancellery and its sites mainly used to provide electricity for lighting, fans, internet server, PCs and printing, and copy machines. (Al-Furat Al-Awsat Technical University/Kufa-Republic of Iraq)

- Although all lights used at ATU facilities are energy-efficient LED lamps, the University started installing movement-detecting sensors in all its buildings. Such an approach allows better energy saving as they usually activate lights when the building is in operation only. The University also continued installing energy-efficient appliances such as fans, refrigerators, air-conditioning, and lab instruments. The progress of such projects is shown in the table below. Note that the data displayed within the table reflects those collected in **October 2020**. **ATU is looking forward to completing the projects by 2026.**

Appliance	Total Number	Total number energy Efficient appliances	Percentage
LED Lamp	393,000	393,000	100% complete
Light Sensors (new)	**65,500**	**23,000**	**35%**
Fan	730	520	71.2%
Refrigerators	298	214	71.8%
Air-conditioners	682	247	36.2%
Lab-instruments	355	123	34.65%
Printers and copy machines	257	257	100% complete
		Average Percentage	**64.1%**

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- ATU launched the SUSTAINABLE TRANSPORTATION PROJECT, thereby inaugurating the 2nd bicycle parking station within the University's main chancellery campus as a part of the University's efforts of promoting better environmentally friendly campuses. This could be achieved by offering "**Zero Emissions Bicycles**" for all staff and students as an alternative way of transport within the campus. Such an approach will promote cutting CO_2 harmful emissions, reducing daily fuel consumption, noise, and traffic within the university campus. It also encourages a more healthy lifestyle for university staff and students. **ATU is looking forward to establish another twelve stations in other campuses by 2024.**

ATU In-Campus Bicycle Stations (Al-Furat Al-Awsat technical University – Republic of Iraq)
https://en.atu.edu.iq/?p=8584

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- Concerning sustainability, ATU University took many steps to expand and maintain the green areas and fulfill them with plants and vegetation. In this respect, the University has established what is called "greenhouses" on multiple campuses. Such an approach helps in growing and supplying fresh and new plants to all campus areas as well as students training and researches, as shown in the figures below:

ATU is looking forward to complete the project in all campuses by 2023.

The University also constructed Cow sheds in Kufa Campus. The project will help university students, staff, and hopefully the community, thereby providing daily fresh milk. It is also used to train students and conduct

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researches as well as students' employability. **ATU is looking forward to duplicate the project in other campuses by 2026.**

ATU University established laying and meat poultry fields and **Cultivation of rye crops** in Al-Mussiab Campus. The project is also expected to help university students, staff, and the community, thereby providing daily eggs. It is also used to train students and conduct researches as well as promote students' employability. **ATU is looking forward to duplicate the project in other campuses by 2026.**

https://fb.watch/7YchxKe7m1/

Another project of ATU University is natural honey production in the Kufa Campus. The project is also helpful to train students and conduct researches. Nowadays, the University started distributing and selling its raw honey to staff, students, and the local community. **ATU is looking forward to duplicate the project in other campuses by 2026.**

https://youtu.be/G8etLfPhGUU

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