

Alexandria University project on using LEDs as energy-efficient bulbs (2019-2021)

Within the framework of the university's keenness to transform into a green, environmentally friendly university that works to enhance its resources and rationalize energy consumption, the Department of Community Service and Environmental Development has launched a project for the total transformation of the use of LED bulbs instead of the fluorescent ones. The light-emitting diode (LED) bulbs are more efficient and energy-saving compared to fluorescent bulbs, with a relatively longer life span.

The project has been implemented in phases since 2019 based on the preparation of an inventory of the total needs of numbers for all faculties and institutes of the university. The first quarter of the numbers required for the total transformation, which represents the types of 60 cm, 120 cm and 9 watts' bulbs, has been spent and installed. In parallel, appropriate measures were taken to dispose of the lost fluorescent lamps through one of the companies concerned with safe disposal.

During the current phase we are processing the second step of purchasing around of 37% of the total needs of the university faculties and institutes.

The table below summarizes the total number of LEDS bulbs that are required for complete transformation into using green energy source

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along with the percentage of the bulbs that were already replaced over the last two years.

	<u>60 cm</u>	<u>120 cm</u>	<u>9 watts</u>
The total number required	39198	30799	5190
The number replaced	10142	9874	1678
Percentage of replaced bulbs	28%	34.3%	32%