



# Telafer University Annual Sustainability Report 2018-2019

Telafer university is established in June 2014, it located in the center of the two roads, the Mosul, Telafer, Senjar road (453.31 meters of the road) and the Mosul, Telafer, Al- Iyadia and Rabia road (500 meters of the road). Telafer University is constructed of 520900 square meters, far away from the center of the Nineveh province about 83 kilometers in the Telafer Township which is one of the districts belonging to the province of Nineveh.

Total area of the whole Campus is equal to (520900 m<sup>2</sup>), distributed into (51400 m<sup>2</sup>) represents the educational buildings, (22400 m<sup>2</sup>) refer to the residential buildings, (4700 m<sup>2</sup>) is the students center contain all services for the students, (4470 m<sup>2</sup>) is the University presidency building, (4600 m<sup>2</sup>) is the central library of the university, (4000 m<sup>2</sup>) is the conferences hall, (3400 m<sup>2</sup>) is the services part of the university, and (430500 m<sup>2</sup>) represents the open spaces. Total area of green spaces is (120000 square meter) (i.e. 22% of the whole spaces of the University).

Telafer University aims to realize further energy saving by using saving energy-efficient appliances. The university buildings are under establishment, therefore one of the future projects is to use devices of high quality saving electricity. Currently buildings have many saving appliances, the following table illustrates the percentage of saving energy in the appliances under using.

Appliance	Total Number	Total number energy Efficient appliances	Percentage
LED Lamp	500	350	70%
Fan	72	30	42%
Cooling devices	100	<b>30</b>	<b>30%</b>
refrigerators	70	<b>60</b>	<b>86%</b>
Water coolers	20	<b>10</b>	<b>50%</b>
	Average percentage		<b>55.6%</b>

The recorded electricity usage of our university is for 2018-2019 which is (7300000 kW) that was spent it for computer devices, printers, coolings, refrigerators, lighting, laboratory appliances...etc.

The following table describes the total carbon footprint on Telafer university on the view of the equations that were recommended by UI GreenMetric, the above values of the Carbon footprint was from January 2018 to December 2018:

**CO<sub>2</sub> (electricity)**

$$= \frac{7300000 \text{ (kWh)}}{1000} \times 0.84$$
$$= 6132 \text{ metric tons}$$

**CO<sub>2</sub> (cars)**

$$= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times$$
$$0,02$$
$$= \frac{42 \times 2 \times 12 \times 240}{100} \times 0.02$$
$$= 48.384 \text{ metric tons}$$

**CO<sub>2</sub> (total)**

$$= 6132 + 48.384$$
$$= 6180.384 \text{ metric tons}$$

**Carbon footprint in 2018 = 6180.384 metric tons**

Because of the spread of Palm trees, Telafer University project to reduce the use of plastic bags by replacing it by using the bags made of Palm wicker. In addition to that, the university of Telafer has an efficient policy to reduce the used paper in the daily workplace by reusable paper in the back offices (i.e. using 2-side of paper, always recheck our data before print, use online system instead of hard copies).

Due to the fact that Telafer is an agricultural area and the presence of fields of wheat and barley in the region, we find that there is a need for water and fertilizers, in the light of these requirements, there was agreed between the University of Telafer and the Directorate of the Municipality of Telafar and the owners of the fields to deliver heavy water and organic waste to these fields in a programmed way. This provides a good opportunity for the University to dispose of these organic wastes while at the same time utilizing them in agriculture and cleaning the environment.

An agreement was reached between the University of Telafer and the Municipality of Telafer to connect the wastewater with the public sewerage network and transfer it to the agricultural fields in Telafer district.

Due to the fact that the district of Telafer within an Undulating plains region of Iraq, and the availability of natural depressions in the region. So, the basic design part of the campus was used to collect this rainwater from the university land in separate waterways and then used for watering crops and cleaning operations of the university buildings

Total main campus area: 520900 m<sup>2</sup>

Total open spaces area in the campus: 430500

Total parking area = 25830 m<sup>2</sup>.

Ratio of parking area = 6% of the open spaces area in the campus.

There are separator between road for vehicle and pedestrian path. There are Street lamp for the pedestrian in the night. Presently, Telafer University has 50 lamps in its streets, also the local government of Telafer township provides lighting poles in all Telafer streets included the university.

The total research fund dedicated to sustainability research in 2018-2019 = 100000 US Dollars, while the total research fund in 2018-2019 = 300000 US Dollars

In March 2019 and under the slogan "The tree is a tender, development and a message of peace", the Faculty of Agriculture organized the day of the tree, under the patronage of His Excellency the President of the University of Telafer, which is part of the project of planting one million trees adopted by the Ministry of Higher Education and Scientific Research. The event, which was attended by the university president, assistant professors, deans of colleges and the official of the International Organization for Migration, in addition to a large number of distinguished guests from the officials of the departments and notables of the city. This activity included in addition to deliver speeches on this occasion, the President of the University and gentlemen deans of the colleges did plant trees in the facade of the building of the College of Basic Education and Agriculture. In the initiation of this scientific and cultural activity the university students actively participated in planting trees and seedlings in facades faculties and in many Of the city parks and the central islands and in the presence of Dr. Adel Mouloud Saleh - Dean of the faculty and staff and teaching staff in the college and the participation of various media.