

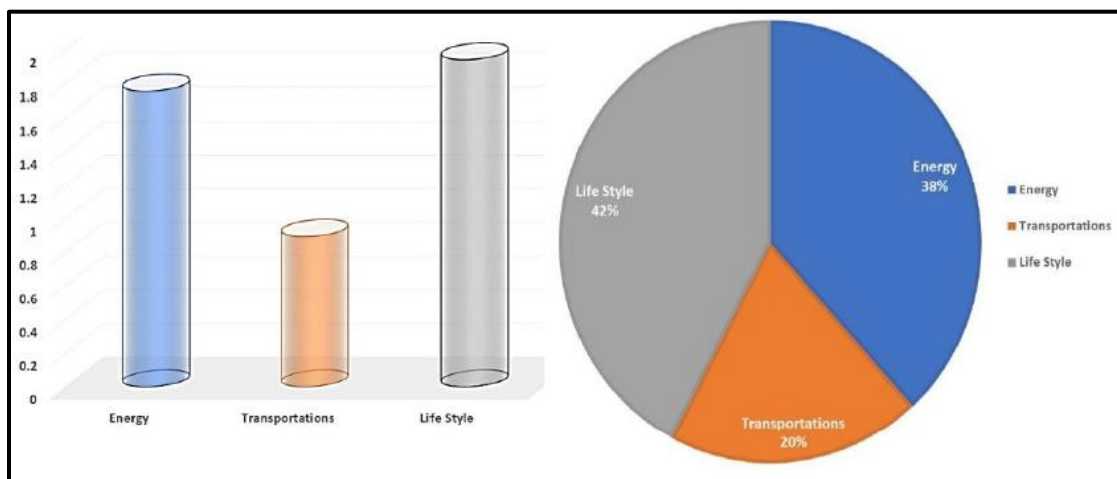
SDG13 Climate Action

With rising greenhouse gas emissions, climate change is occurring at rates much faster than anticipated and its effects are clearly felt worldwide. Increasing greenhouse gas emissions are driving climate change. In 2017, greenhouse gas concentrations reached new highs, with globally averaged mole fractions of CO₂ at 405.5 parts per million (ppm), up from 400.1 ppm in 2015, and at 146 per cent of pre-industrial levels. Moving towards 2030 emission objectives compatible with the 2°C and 1.5°C pathways requires a peak to be achieved as soon as possible, followed by rapid reductions.

13.1 A pilot Project “ Measuring Carbon Footprint”

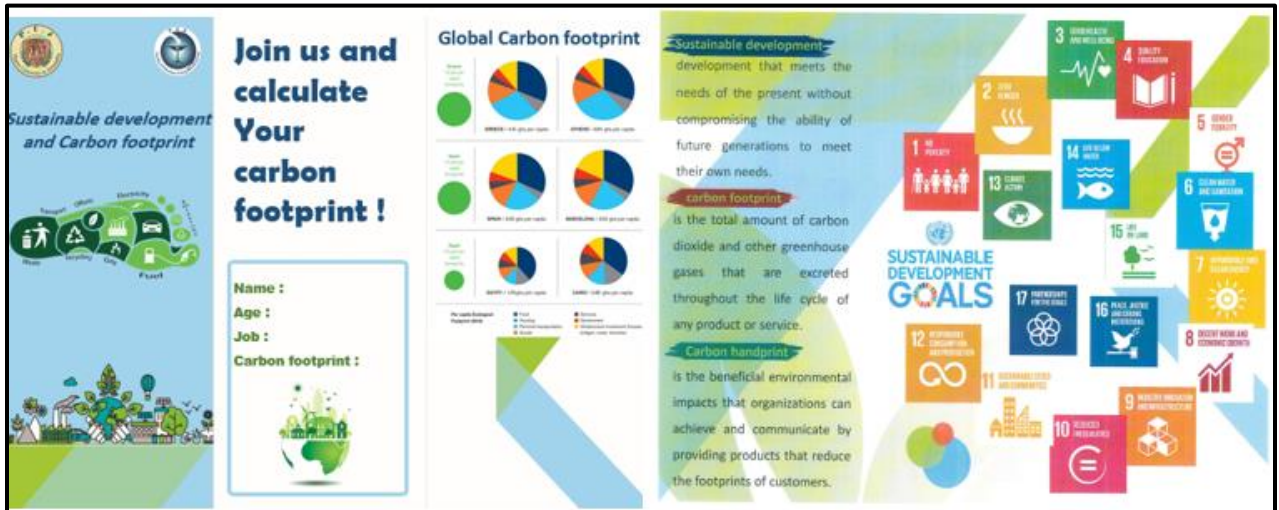
Project Description : The term “carbon footprint” is often used as shorthand for the amount of carbon (usually in tonnes) being emitted by an activity or organization. The carbon footprint is also an important component of the Ecological Footprint, since it is one competing demand for biologically productive space. Carbon emissions from burning fossil fuel accumulate in the atmosphere if there is not enough biocapacity dedicated to absorb these emissions. Therefore, when the carbon footprint is reported within the context of the total Ecological Footprint, the tonnes of carbon dioxide emissions are expressed as the amount of productive land area required to sequester those carbon dioxide emissions. This tells us how much biocapacity is necessary to neutralize the emissions from burning fossil fuels.

In this respect, Pharos University started an activity to measure the footprint of the university in the academic year 2018-2019. The Faculty of Pharmacy carried out a project to measure the carbon footprint of Pharos University. This started by spreading the awareness on the idea by seminars, questionnaires and brochures The team of the project participated in a conference to present their work. About 1107 students took place in this study from them 125 freshmen, 426 sophomore, 169 junior, 103 mid-senior, and 284 seniors. It was found that 85% (940 out of 1107) of student’s carbon footprint were more than the average of Egyptian carbon footprint which equal 2.2. The figure below shows the comparison between different sources of carbon emissions.



<https://www.pua.edu/eg/the-faculty-of-pharmacy-and-drug-manufacturing-held-a-workshop-on-sustainable-development-applications/>

The brochure distributed to students and staff is presented below



The team of this study created an online structured survey to evaluate students' energy consumption styles, behavioral tendencies, and readiness to engage in energy conservation. The project recommended several points. Of which are: Limit car driving and use of group public transportation, biking and walking, and use a fuel-efficient vehicle whenever possible.