

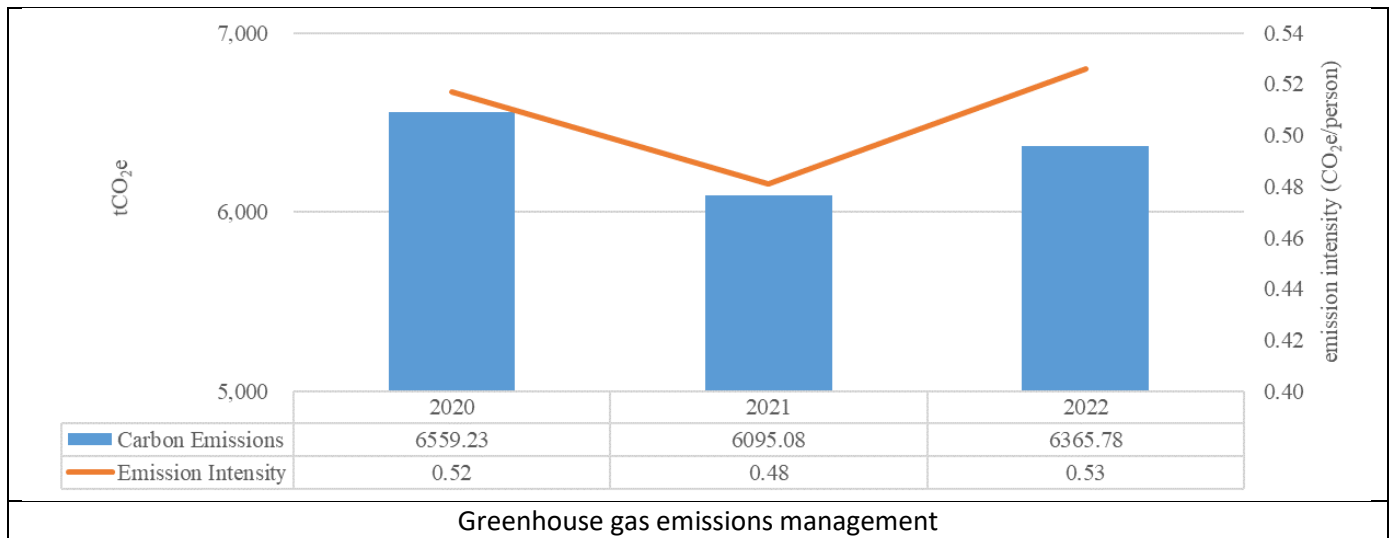


Hungkuang University and The Sustainable Development Goals

SDGs 7. Affordable and Clean Energy

[7.2] University measures towards affordable and clean energy

[7.2.3] Carbon reduction and emission reduction process



Description:

Hungkuang University passed the ISO 14064-1 Greenhouse Gases in 2010 and set it as the base year. Established a [Greenhouse Gas Inventory Operation] procedure. The scope of the operating boundary was set in terms of section 4.2 of the ISO 14064-1 standard, and regularly checked the greenhouse gas emissions on campus every year (carbon dioxide, methane, nitrous oxide, hydrofluorocarbon, perfluorocarbon, sulfur hexafluoride, nitrogen trifluoride) (greenhouse gas emissions over the years were as shown in the table below) to fully grasp the greenhouse gas status of emissions. Among them, the scope 2 was the primary source of greenhouse gas emissions- more than 90% of the total emissions. The use of total energy CO₂ emissions in 2022 would be 6365.78 mt of CO₂e, a slight increase of 4.4% compared to the total CO₂ emissions of 6095.08 mt of CO₂e in 2021. This was due to the COVID-19 (windows and doors need to be opened when using A/C), resulting the increase of purchased energy. The per capita emissions of greenhouse gases were 0.53 mt of CO₂e, which was much lower than the average per capita emissions of 11.38 mt of CO₂e (Source: Executive Yuan Environmental Protection Agency, 2019 Taiwan Greenhouse Gases Inventory).