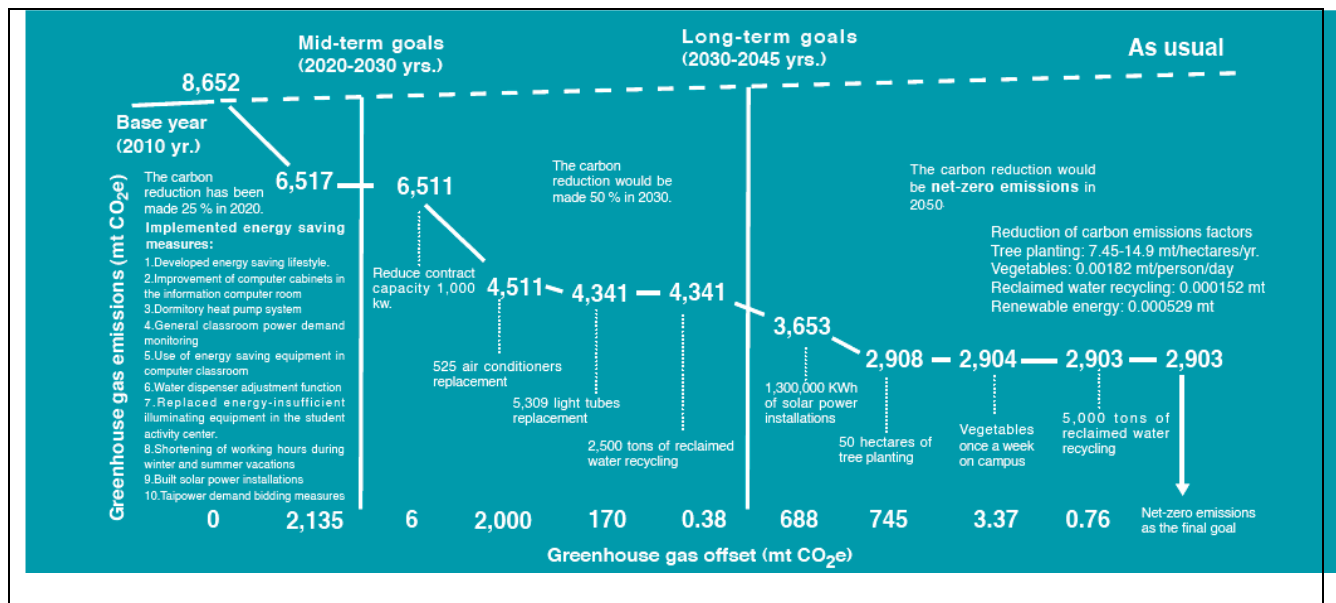


Hungkuang University and The Sustainable Development Goals

SDGs 13. Climate Action

[13.4] Commitment to carbon neutral university

[13.4.1] Commitment to carbon neutral university



Description:

We proposed three net-zero strategies based on 10 years of action(base year 2010): energy saving and carbon reduction, renewable energy, and carbon compensation. We achieved a quarter of greenhouse gas emissions reduction in 2022. We would achieve a half of it in 2030. Eventually, we would achieve net-zero emissions in 2050.

According to the ISO 14064-1 Greenhouse Gases, our carbon emissions in 2022 were as follows:

1. 15% of the direct emissions within in the scope of operation i.e. power output of emergency generator, mobile combustion of official vehicles, heavy machinery vehicles, and forklifts, septic tanks, fire extinguishers, and air-conditioning fugitive emission sources.
2. 85% of the indirect emissions were mainly carbon emissions from electrical equipment in offices, laboratories, restaurants, and dormitories.
3. Covered the indirect emissions generated by the entire value chain, including emissions from the supply chain and consumers i.e. commuting of faculty, staff and students, outsourcing of waste generated on campus ... etc. (No actual supply chain on campus, the check was temporarily excluded).

Possible ways and challenges for follow-up net-zero:

1. Official vehicles were replaced with electric vehicles. Carbon rights were purchased (tree planting) for carbon compensation.
2. Continued to replace energy-insufficient equipment, implemented energy saving and carbon reduction measures, built renewable energy installations, and purchased carbon rights (tree planting) for carbon compensation.
3. Encouraged the replacement of electric vehicles. Purchased carbon rights (tree planting) for carbon compensation.