



University : Northern Technical University
Country : Iraq
Web Address : <https://www.ntu.edu.iq>

SDG 7.2: University measures towards affordable and clean energy

7.2.3 Does your university as a body have a process for carbon management and reducing carbon dioxide emissions?

Northern Technical University (NTU) is deeply committed to carbon management and reducing carbon dioxide emissions. The establishment of a comprehensive University Environmental Policy, regularly reviewed by the Environmental Strategy Committee, demonstrates NTU's proactive approach to understanding its environmental impact and the urgent need to act responsibly. This policy aligns with NTU's mission to integrate excellence in education and research with sustainable resource and operational management.

To further advance its carbon management agenda, NTU can implement a variety of strategic initiatives:

- ❖ Carbon Auditing and Reporting: Conduct regular carbon audits to quantify the university's carbon emissions. This practice will promote transparency and accountability by reporting results to both internal stakeholders and the broader community.
- ❖ Energy Efficiency Upgrades: Invest in energy-efficient technologies such as LED lighting, modern HVAC systems, and improved insulation. These upgrades can significantly reduce the university's energy consumption and operational costs.
- ❖ Green Procurement Practices: Implement green procurement policies that prioritize eco-friendly, energy-efficient, and sustainably sourced products and services, creating a positive long-term impact on both the environment and the local economy.
- ❖ Enhanced Waste Management: Improve waste management strategies by increasing recycling and composting efforts while reducing single-use plastics. This contributes to minimizing the university's overall waste footprint and promotes a culture of sustainability.
- ❖ Water Conservation Initiatives: Introduce water-saving measures, including low-flow fixtures, rainwater harvesting systems, and water-efficient landscaping, to enhance resource conservation on campus.
- ❖ Community Engagement and Education: Foster environmental awareness and encourage sustainable practices through educational programs and campaigns that engage the university community.



- ❖ Research and Innovation: Support sustainability-focused research and innovation that empowers students and faculty to tackle environmental challenges and promote sustainable solutions.
- ❖ Sustainable Food Systems: Encourage the availability of locally sourced, organic, and plant-based food options within the university's dining services to cultivate sustainable food systems.
- ❖ Active Transportation Incentives: Promote walking, cycling, and the use of public transit through infrastructure improvements, incentives, and awareness campaigns to foster a culture of active transportation on campus.
- ❖ Green Building Standards: Adopt green building standards for all new constructions and renovations to ensure that campus facilities are energy-efficient and environmentally sustainable.
- ❖ Renewable Energy Installations: Expand the installation of renewable energy systems, such as solar panels and wind turbines, to provide clean energy for campus operations and reduce overall carbon emissions.
- ❖ Carbon Offsetting and Sequestration: Invest in carbon offset projects and explore natural carbon sequestration opportunities, such as tree planting initiatives, to enhance the university's carbon management and contribute positively to the ecosystem.
- ❖ Policy Advocacy: Engage in policy advocacy efforts to support local, national, and international environmental regulations, reinforcing NTU's commitment to environmental sustainability and collaborative efforts with the wider community.

These measures, along with a clear Environmental Policy, establish Northern Technical University (NTU) as a proactive institution dedicated to reducing carbon dioxide emissions and fostering a culture of environmental sustainability.















Charge parking at NTU campus





Renewable energy that reduces purchased electricity for Heating water, HVAC systems, and lighting





Adopt healthy and sustainable transportation options (shuttle bus, bicycles, and friendly path-ways)



In addition, many Impactful programs on Energy and climate change have been implemented. These are some examples of it:

No	Programs	Scope	Total Participants	URL	Short Description
1	The second international scientific conference entitled Women and Climate Change	international	100	https://ntu.edu.iq/ar/%d8%a7%d9%84%d8%b3%d9%8a%d8%af%d8%a9-%d8%b1%d8%a6%d9%8a%d8%b3-%d8%a7%d9%84%d8%ac%d8%a7%d9%85%d8%b9%d8%a9-%d8%a7%d9%84%d8%aa%d9%82%d9%86%d9%8a%d8%a9-%d8%a7%d9%84%d8%b4%d9%85%d8%a7%d9%84%d9%8a%d8%a9-553/?lang=en	With support from the United Nations Development Programme, the climate change consequences are discussed
2	Rwanka forest project	Surrounding communities	80	https://ntu.edu.iq/ar/%d8%a7%d9%84%d8%b3%d9%8a%d8%af%d8%a9-%d8%b1%d8%a6%d9%8a%d8%b3-%d8%a7%d9%84%d8%ac%d8%a7%d9%85%d8%b9%d8%a9-%d8%a7%d9%84%d8%aa%d9%82%d9%86%d9%8a%d8%a9-%d8%a7%d9%84%d8%b4%d9%85%d8%a7%d9%84%d9%8a%d8%a9-364/?lang=en	The goal of this project is to fight climate change by motivating and preparing the community to plant trees in forests
3	Awareness program among staff and students	Staff , students and some of public schools	Not limit	https://ntu.edu.iq/ar/%d9%86%d8%b4%d8%a7%d9%d8%b7%d8%a7%d8%aa-%d9%84%d8%ac%d9%86%d8%a9-	Million Tree Planting Project Committee at the Agricultural Technical College, Mosul

			https://ntu.edu.iq/ar/%d9%88%d8%ad%d8%af%d8%a9-%d8%aa%d9%85%d9%83%d9%8a%d9%86-%d8%a7%d9%84%d9%85%d9%85%d8%b1%d8%a3%d8%a9-%d9%81%d9%8a-%d8%a7%d9%84%d9%85%d9%85%d8%b9%d9%87%d8%af-%d8%a7%d9%84%d8%aa%d9%82%d9%86%d9%8a-%d9%83%d8%b1%d9%86-%d9%81-4/?lang=en	
4	Energy Support and Emission Reduction	Staff and Surrounding communities	30	https://ntu.edu.iq/ar/%d9%88%d8%ad%d8%af%d8%a9-%d8%aa%d9%85%d9%83%d9%8a%d9%86-%d8%a7%d9%84%d9%85%d9%85%d8%b1%d8%a3%d8%a9-%d9%81%d9%8a-%d8%a7%d9%84%d9%85%d9%85%d8%b9%d9%87%d8%af-%d8%a7%d9%84%d8%aa%d9%82%d9%86%d9%8a-%d9%83%d8%b1%d9%86-%d9%81-2/?lang=en The Women's Empowerment Unit at the Kirkuk Technical Institute organizes a workshop entitled (Energy Support and Emission Reduction).

Furthermore, many research have been published by Northern Technical University under the caption of "Northern Technical University, Iraq & clean energy" you can refer to the link below for more information:

https://scholar.google.com/scholar?q=%22Northern+Technical+University%2C+Iraq%22%26clean+energy%22&hl=ar&as_sdt=2007&as_ylo=2022&as_yhi=2023