

# CLIMATE ACTION PLAN (CAP) 2024-2050



# Table of Contents

|                           |    |
|---------------------------|----|
| MESSAGE FROM THE RECTOR   | 03 |
| SUMMARY                   | 04 |
| METHODOLOGY               | 05 |
| GOALS                     | 08 |
| STRATEGIES AND ACTIONS    | 08 |
| WASTE MANAGEMENT          | 09 |
| MONITORING AND EVALUATION | 10 |
| CONCLUSION                | 11 |

# Message from The Rector

It is with great enthusiasm and a sense of responsibility that I present to you the first Climate Action Plan of Burdur Mehmet Akif Ersoy University. As stewards of knowledge and guardians of the future, it is incumbent upon us to address the pressing challenges posed by climate change and to cultivate a culture of sustainability within our institution.



Climate change is not merely a distant threat; it is a reality that demands our immediate attention and concerted action. As we witness the escalating impacts of rising temperatures, extreme weather events, and ecological degradation, it becomes abundantly clear that we cannot afford to be passive observers. Rather, we must be proactive agents of change, driving forward innovative solutions and embracing sustainable practices that will safeguard our planet for generations to come.

At Burdur Mehmet Akif Ersoy University, we are committed to leading by example and demonstrating our unwavering dedication to environmental stewardship. Our Climate Action Plan embodies this commitment, outlining a comprehensive set of strategies and initiatives designed to mitigate our environmental footprint, promote resilience, and foster a culture of sustainability across our campus community.

Through targeted measures in areas such as energy efficiency, waste management, transportation, education, and community engagement, we aim to effect meaningful change and inspire others to follow suit. By integrating sustainability into every facet of our operations and instilling eco-conscious values in our students, faculty, staff, and stakeholders, we aspire to create a more sustainable and resilient university community.

This Climate Action Plan represents a shared vision for a brighter, greener future—a future where our actions today reverberate positively for generations to come. As we embark on this transformative journey, I invite every member of our university community to join hands in this noble endeavour. Together, let us rise to the challenge of climate change with determination, innovation, and solidarity.

Thank you for your commitment to sustainability. Together, let's work towards creating a more sustainable future for all

**Prof. Dr. Hüseyin DALGAR**  
Rector

# Summary

## Regarding the Action Plan

Burdur Mehmet Akif Ersoy University has initiated consultative and collaborative efforts this year to formulate its inaugural Sustainability and Climate Action Plan. Aligned meticulously with the University's Strategic Plan, our overarching ambition is to reduce carbon emissions by the year 2050. We are working for collaboratively to develop a comprehensive strategy that not only endeavors to realize this lofty objective but also addresses the urgent challenges precipitated by the ongoing climate crisis.

Recognizing the imperative for immediate and substantive action in response to the escalating threat of climate change, Burdur Mehmet Akif Ersoy University steadfastly commits itself to combating this global menace. Our forward-looking vision encompasses ambitious sustainability targets, aiming to establish new benchmarks for environmental stewardship and pioneering innovation. Central to our approach is the integration of climate action into every facet of our institutional operations, thereby fostering a pervasive culture of responsibility and resilience in the face of environmental adversities. Firmly entrenched in our ethos is the recognition of our pivotal role in catalyzing transformative change. Thus, our meticulously crafted Climate Action Plan delineates a strategic and comprehensive framework spanning energy management, waste reduction, sustainable mobility, education, and community engagement.

More than merely a procedural document, our Climate Action Plan epitomizes our unyielding commitment to mitigating the university's environmental footprint, championing sustainability principles, and instilling a collective ethos of environmental stewardship among stakeholders spanning students, faculty, staff, and the wider community. Through the deliberate and targeted execution of initiatives across multifarious domains, Burdur Mehmet Akif Ersoy University aspires to realize its ambitious sustainability objectives by the designated target year of 2050.

# Methodology

The carbon emissions in this report are computed following the guidelines of the Greenhouse Gas (GHG) Protocol Corporate Standard. The GHG Protocol is used to clearly outline the three carbon emission scopes at Burdur Mehmet Akif Ersoy University.

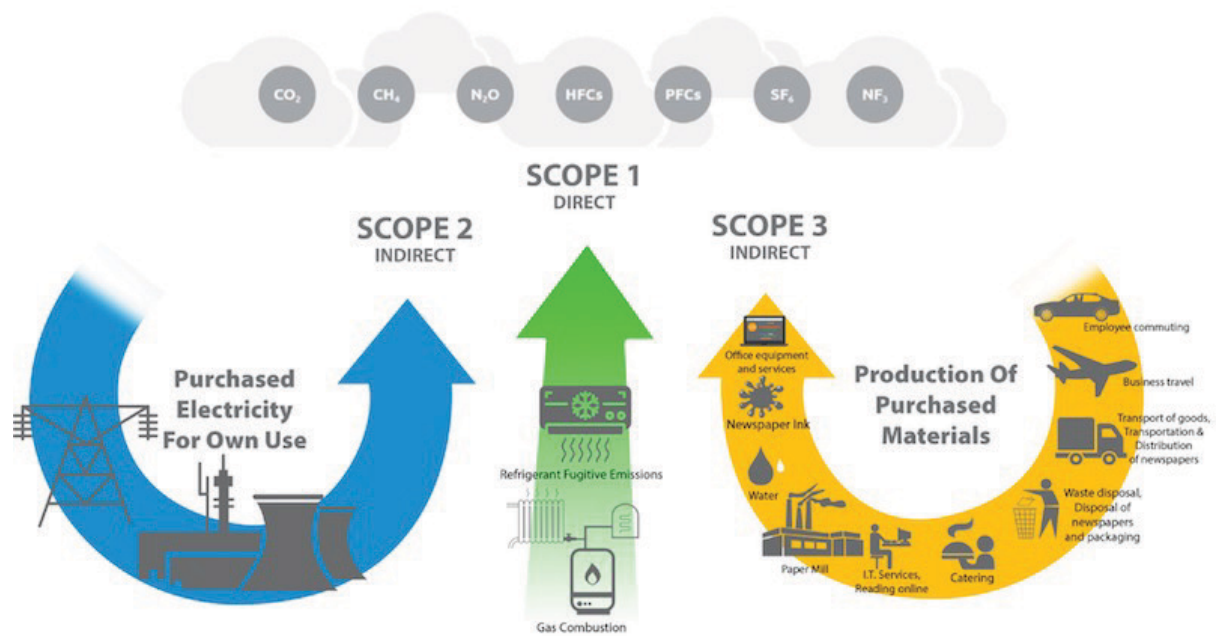


Figure 1. Overview of GHG Protocol scopes and emissions across the value chain\*

**Scope 1:** This classification encompasses the direct emissions of greenhouse gases that are generated on the company's property, including the use of gas and oil, as well as the emissions from company-owned vehicles and equipment.

**Scope 2:** refers to the net indirect emissions caused by the import and export of energy such as steam and electricity.

**Scope 3:** encompasses a range of indirect greenhouse gas emissions, such as staff business travel, product transportation by third parties, outsourcing significant tasks, off-site waste disposal/management activities, water usage, and emissions associated to procurement.

\*([https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporting-Standard\\_041613\\_2.pdf](https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporting-Standard_041613_2.pdf))

(<https://www.greenelement.co.uk/blog/carbon-footprint-scope-1-2-3/>)



The carbon footprint of MAKU has been calculated using the UK Government 2023 GHG emission conversion factors, which have been prepared in line with the GHG Protocol and the United Nations Framework Convention on Climate Change (UNFCCC). Burdur Mehmet Akif Ersoy University's carbon emissions are categorized into three scopes: Scope 1 emissions from natural gas and propane consumption for heating purposes and diesel and gasoline fuel consumption by university vehicles, Scope 2 emissions from electricity consumption, and Scope 3 emissions from water consumption, domestic waste generation, animal farm activities and transportation in the campus. Forest areas in the campus has also considered as negative emissions. The emissions of Burdur Mehmet Akif University Istiklal Campus are as follows: the sum of Scope 1 emissions and Scope 2 is 11.544 tCO<sub>2</sub>e, and Scope 3 emissions is 465,8 tCO<sub>2</sub>e. The findings were obtained from actions conducted in 2024.

>> MAKU Carbon footprint is 12010 tCO<sub>2</sub>e.

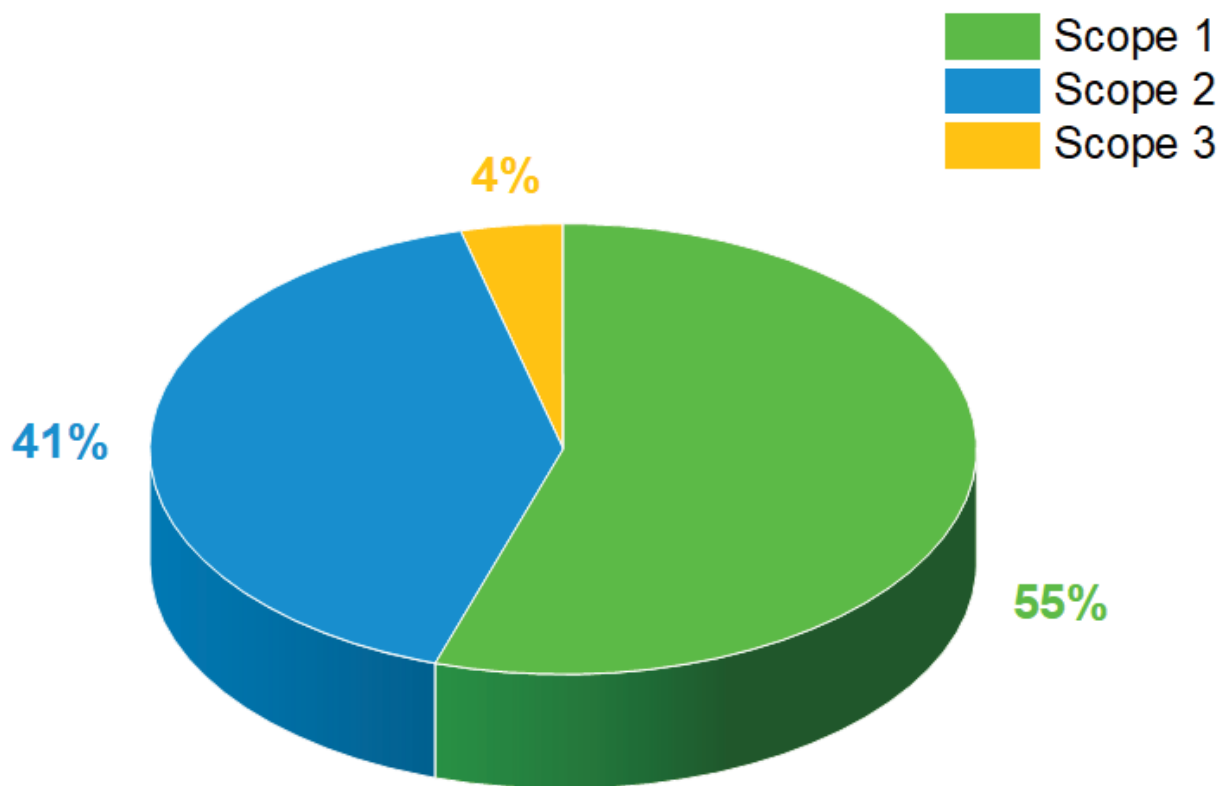


Figure 2. The distribution of the carbon footprint scopes

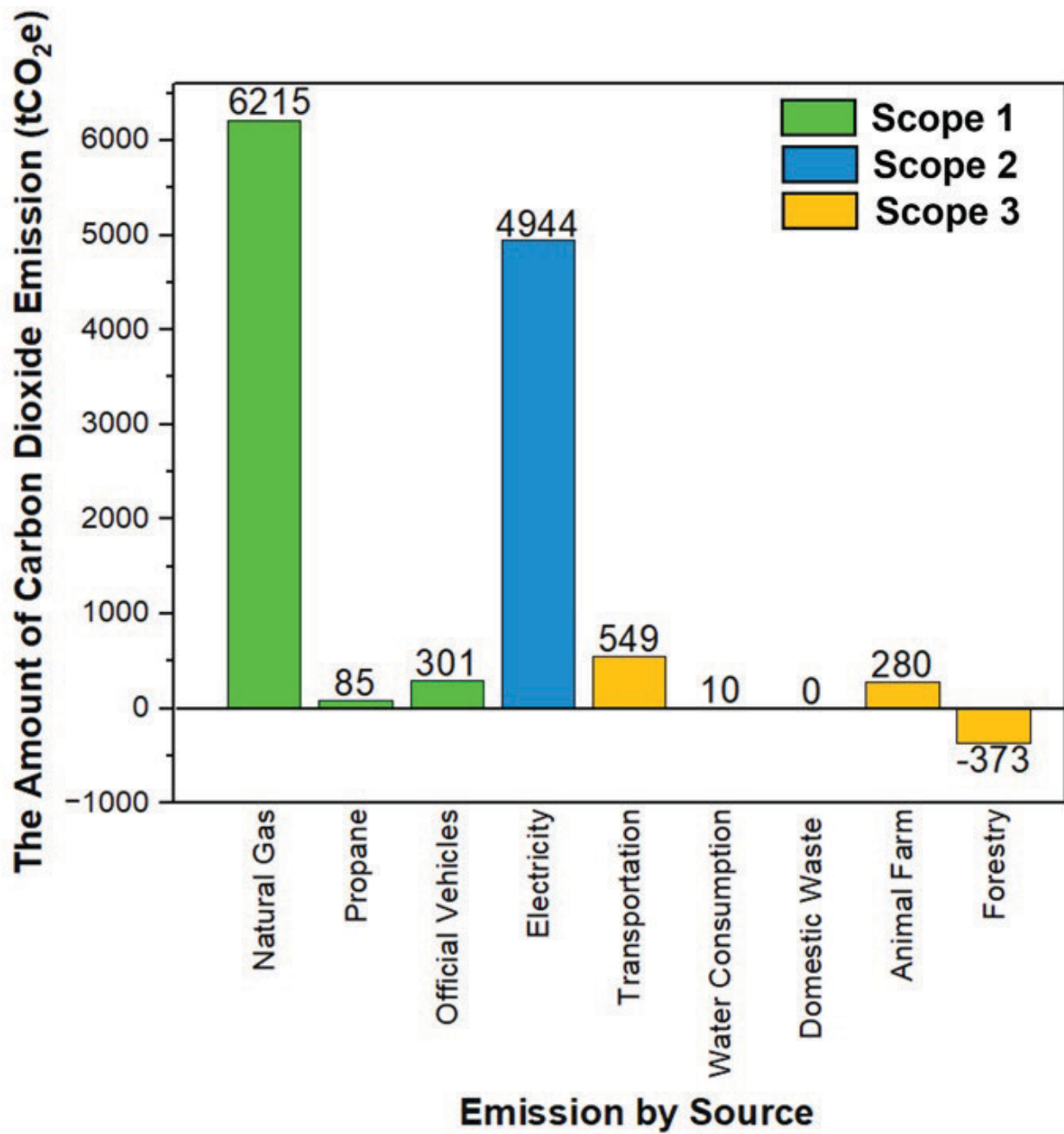


Figure 3. The amount of CO<sub>2</sub> emissions from different sources in MAKU, 2023.

- Natural gas consumption is the largest contributor to carbon footprint with 51,7% share.
- Electricity consumption is the second main source of carbon footprint in MAKU.
- Total campus building footprint = 0,05 tCO<sub>2</sub>e/m<sup>2</sup>

# Goals

- **Reduce Greenhouse Gas Emissions:** MAKU is steadfast in its commitment to significantly curtail carbon emissions across all facets of university operations, transportation systems, and energy consumption channels.
- **Enhance Sustainability Practices:** Through a multifaceted approach, MAKU endeavours to instill sustainable practices aimed at conserving precious resources, minimizing waste generation, and advocating for eco-conscious procurement strategies.
- **Foster Climate Resilience:** In acknowledgment of the escalating impacts of climate change, MAKU is steadfast in its pursuit of adaptive strategies designed to fortify the university's resilience to environmental challenges.
- **Educate and Engage the University Community:** Central to our mission is the cultivation of environmental literacy and active participation in climate action endeavours among students, faculty, and staff through comprehensive educational initiatives and robust community engagement programs.
- **Integrating the United Nations Sustainable Development Goals (UN SDGs)** into university policies, programs, and initiatives to ensure alignment with global sustainability objectives.

## Strategies and Actions

Natural gas and electricity consumptions are the main contributors of carbon footprint.

In order to reduce the carbon footprint of MAKU:

Energy efficiency initiatives are planning in the campus area to reduce the heat loss from building envelopes and inefficiencies in boiler systems to reduce natural gas consumption.

The road and park lighting systems are also planned to be replaced by high efficiency LED lighting systems to reduce electricity consumption.

The renewable energy investment plan for solar energy generation in the university is being conducted to produce green electricity.

Afforestation of the campus will continue to have a greener campus to reduce carbon footprint and contribute to climate change mitigation efforts.



The awareness studies (trainings, workshops, conferences, social clubs, etc.) for students and academic and administrative staff will be continued on sustainable environment, sustainable buildings, energy efficiency, green chemicals, water saving, waste disposal, recycling, upcycling and environmental protection in the campus.

The university is registered energy efficiency portal of Turkish Ministry and Natural Resources and energy consumption of the university has been collecting and reporting to database by the energy manager of the university annually.

Burdur Mehmet Akif Ersoy University (MAKU) stands resolute in the face of the escalating global climate crisis. Recognizing our duty as an educational institution to lead by example, MAKU is committed to forging a sustainable path forward. With unwavering dedication, we pledge to mitigate the detrimental effects of climate change, safeguarding the environment for future generations. This Climate Action Plan epitomizes our steadfast resolve to enact meaningful change, laying the groundwork for a more sustainable and resilient university community.

## Waste Management

Within the scope of Zero Waste practices, a working team was first formed to follow the process from the establishment of the system to its implementation and monitoring. The installation of waste bins in campus has been completed in order to separate and collect waste according to its types at the source.

A "Temporary Waste Storage Area" was created behind the Rectorate Building in Istiklal Campus, where waste will be temporarily stored. Additionally, Temporary Waste Storage containers have been placed at the back of all our Faculty buildings. Additionally, a "Mobile Waste Collection Center" was established. Recyclable waste is regularly collected by the contracted company of the Provincial Municipality and taken to recycling facilities.



Figure 4. Istiklal campus layout plan

Domestic waste is also regularly collected by the contracted company of the Provincial Municipality and taken to biogas production facilities.

**MAKU is an animal and agriculture-focused university, and there is an animal farm located on the campus consisting of dairy cows and small ruminants. The animal manure is regularly collected by the Provincial Municipality and taken to biogas production facilities.**

Monitoring studies are carried out at regular intervals regarding the implementation of the application, and the waste collected and sent to waste bins is recorded; We enter data into the IEIS (Integrated Environmental Information System) approved by the Provincial Directorate of Environment and Urbanization.

## Monitoring And Evaluation

MAKU is steadfast in its commitment to the rigorous monitoring and evaluation of the Climate Action Plan's implementation, leveraging comprehensive performance metrics and stakeholder feedback mechanisms to assess progress toward emission reduction targets and sustainability

objectives. Embracing a culture of continuous improvement, MAKU remains agile in its approach, ready to adapt strategies and actions as necessary to optimize outcomes and drive meaningful change.

## Conclusion

Burdur Mehmet Akif Ersoy University (MAKU) is poised to lead the charge in combating climate change and promoting sustainability. Through the unwavering commitment outlined in this Climate Action Plan, MAKU aspires to serve as a beacon of environmental stewardship, inspiring positive change within our university community and beyond. Together, let us embark on this transformative journey toward a more sustainable, resilient, and equitable future for all.



[sustainability.mehmetakif.edu.tr](https://sustainability.mehmetakif.edu.tr)