

ENERGY EFFICIENCY STANDARDS POLICY FOR RENOVATION AND NEW CONSTRUCTION PROJECTS

1. INTRODUCTION

The purpose of this policy is to ensure that all renovation and new construction projects across the university are designed, constructed, and operated to maximize energy efficiency, reduce carbon emissions, and promote sustainable building practices. This policy reflects the university's commitment to reducing its environmental impact and aligning with global sustainability goals. The policy applies to all new construction projects, major renovations, and improvement works on the university campuses, including academic, residential, and administrative buildings. It involves collaboration among project teams, architects, contractors, facility management, and relevant regulatory bodies.

2. OBJECTIVES

The objectives of the policy are outlined as follows:

- Energy Efficiency:** Ensure that all buildings are designed to minimize energy consumption through the use of efficient systems, materials, and technologies.
- Sustainability:** Support the university's sustainability goals by reducing greenhouse gas emissions and encouraging resource-efficient buildings.
- Cost Reduction:** Lower operational costs by reducing energy use, leading to both short-term and long-term savings on public services and utilities.
- Regulatory Compliance:** Align the university's building standards with applicable local, national, and international energy efficiency and sustainability regulations.
- Health and Productivity:** Create healthier indoor environments for students, faculty, and staff through improved air quality, natural lighting, and better thermal comfort.

3. LEGAL FRAMEWORK

- Turkey's Energy Efficiency Strategy and Action Plan:** Targets set by the Ministry of Energy and Natural Resources of the Republic of Turkey.
- Zoning Law and Regulations:** Relevant legislation governing construction processes.
- TS EN 15232:** Standard for evaluating energy performance in buildings.

4. IMPLEMENTATION

The strategies to achieve Burdur Mehmet Akif Ersoy University's energy efficiency goals are outlined below:

- a. Existing Infrastructure Audit: An audit of current energy use and infrastructure performance will be conducted.
- b. Energy Efficiency Approach: A comprehensive energy efficiency approach will be adopted for all new construction and renovation projects.
- c. Integration of Energy-Efficient Technologies: Future projects will incorporate renewable energy sources such as LED lighting, smart HVAC (Heating, Ventilation, and Air Conditioning) systems, and solar panels.
- d. Passive Design Strategies: Passive design strategies, including maximizing natural ventilation, optimizing insulation, and incorporating daylight, will be implemented.
- e. Procurement Process: Priority will be given to materials with low energy consumption and sustainable certifications. Sustainable and eco-friendly materials will be promoted for all construction and renovation projects. Sourcing materials from local producers will be a key goal.
- f. Energy-Efficient Equipment: Energy-efficient equipment will be installed to minimize consumption.

5. TRAINING AND AWARENESS

- a. Employee and Student Training: Regular training programs and workshops on energy efficiency will be organized for staff and students.
- b. Awareness Campaigns: Informational campaigns on energy savings and sustainable living practices will be conducted to encourage eco-friendly lifestyles.

6. MONITORING AND EVALUATION

- a. Energy Consumption Reports: The Department of Construction Works and Technical Services will monitor energy consumption for each project, tracking data for one year after construction completion. Annual reports will be prepared.
- b. Performance Evaluation: The energy efficiency performance of implemented projects will be evaluated annually.

7. POLICY REVIEW

This policy will be reviewed every two years and updated as necessary to ensure alignment with the university's energy efficiency goals.

8. ENFORCEMENT

This policy will come into effect on the date it is approved by the Senate of Burdur Mehmet Akif Ersoy University.