



AFE BABALOLA UNIVERSITY, ADO EKITI

## University Energy Conservation Policy

**Effective Date:** January 10, 2020

**Last Date of Review:** January 10, 2023

**Due for Review:** January 10, 2024

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### 1. PURPOSE

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ABUAD has a central commitment and mission to advance environmental responsibility by implementing highest standards and measures to reduce energy consumption and related costs while maintaining a serene, comfortable, and sustainable learning environment.

The purpose of this policy document is to ensure that all new constructions, buildings, renovations, and facilities adhere to energy efficiency standards. It elaborates processes to manage energy and utility consumption across campus by implementing sustainable practices and procedures. This is to include the use of electricity, natural gas, and fuel oil for all campus buildings and utilities.

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### 2. POLICY DESCRIPTION

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This policy establishes the framework for acceptable protocols, practices, and operational standards with regards to energy conservation practices across all facilities, buildings, and campuses of ABUAD.

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### 3. DEFINITIONS

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**Energy use intensity (EUI):** expresses a building's energy use as a function of its size or other characteristics. EUI is expressed as energy per square foot per year. It is calculated by dividing the total energy consumed by the building in one year (measured in thousand British thermal units (kBtu) by the total gross floor area of the building.

**Retro-commissioning:** a systematic process to improve an existing building's performance. Using a whole-building systems approach, retro-commissioning seeks to identify operational improvements that will increase occupant comfort and save energy.

**ASHRAE Level 2 energy audit:** evaluates the building energy systems in detail to define a variety of potential energy-efficiency improvements. This process includes the building envelope, lighting, heating, ventilation, and air conditioning (HVAC), domestic hot water (DHW), plug loads, and compressed air and process uses.

**Measurement and verification:** the process for quantifying savings delivered by an energy efficiency measure.

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### 4. POLICY STATEMENTS

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1. ABUAD aims to reduce its energy use intensity by 1% by 2030 from the 2020 baseline. To this end, ABUAD will promote the use of cost-effective, renewable energy sources whenever possible, both in new construction and existing building renovations. Energy conservation goals will be revisited annually to evaluate operational challenges and opportunities that will impact performance in the longer term.
2. All ABUAD buildings and facilities shall be operated in the most energy-efficient and integrated manner so that we can focus our energy strategies on constructing and maintaining a university that educates, enriches, and engages.
3. All Colleges and Centres shall demonstrate commitment to our community and leadership in our industry by reducing environmental impacts associated with our building energy use.
4. The Office of Sustainability will set and publish energy performance targets, represented as energy use intensity (kBtu/SF), and will monitor and evaluate performance levels on a monthly basis as part of the Facilities Management business review.
5. Energy consumption for all university-owned, operated, and managed buildings will be benchmarked in ENERGY STAR's Portfolio Manager Tool.
6. All buildings will continue to target energy efficiency improvement measures to the greatest extent possible through ongoing Strategic Energy Management planning, retro-commissioning, and ASHRAE Level 2 energy audits. ABUAD will undertake all necessary steps to fund efficiency strategies, and upon securing available funds, expeditiously implement identified measures. All implemented improvement measures will undergo a pre and post-measurement and verification process.
7. All Colleges and Centers at ABUAD will be responsible for timely maintenance services of electrical equipment installed in the University, with an objective of keeping their efficiency at maximum level.
8. All Colleges and Centers at ABUAD will actively seek sources of funding to implement energy-efficient improvements and utility infrastructure renewal projects, including federal, state, and private sector grant opportunities. In the event these outside funding sources are unavailable or inadequate to meet project requirements, the University shall review priorities within capital infrastructure funds on an annual basis.
9. ABUAD will cooperate with federal, state, and local governments and other organizations (e.g. Office of the Senior Special Assistant to the President on Sustainable Development Goals, NESREA, NOSDRA, SDG Office of Ekiti State, Ministries of Environment and other governing agencies) in accomplishing energy conservation and utility management objectives.
10. The University Sustainability Committee under the Chairmanship of the Deputy Vice-Chancellor (ARISP) is hereby tasked with the responsibility and authority to implement this policy and identify energy-saving opportunities within the Energy and Utility Campus Master Planning efforts.
11. The committee meets on a monthly basis to review ongoing conservation initiatives across the University. The Committee will monitor monthly energy usage for all buildings and campuses against energy-saving goals and required benchmarks and will report results to the University Senate. The committee is responsible for managing and mitigating energy consumption in order to:
  - a) Avoid unnecessary expenses,

- b) Improve cost-effectiveness, productivity, and working conditions,
- c) Reduce greenhouse gas emissions and protect the environment,
- d) Gain control over the university's energy consumption by reviewing and improving purchasing, operating, motivation and training practices, and
- e) Improve faculty, staff, and student awareness and encourage the sharing of experiences and expertise on the effects of climate change, depletion of fossil fuels, and on the importance of having consciousness in energy conservation etc. at regular intervals.
- f) Design and implement an energy procurement strategy that ensures that all purchasing strategies maximize budget certainty, avoid market volatility, and purchase fossil fuels and electricity at the most competitive market prices.

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## **5. PROCEDURE FOR GRIEVANCES**

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A faculty member may file an appeal to the Vice Chancellor if he/she feels aggrieved by a decision in violation of academic freedom stipulated in this policy. Such appeal shall be reviewed by a committee appointed by the Vice Chancellor

The jurisdictional directives of the review committee shall include:

- Determine whether proper university procedures have been followed;
- Review and make recommendations in relation to appeal and grievances; and
- Communicate its decision to the complainant.

After hearing the case, the committee will submit its recommendations to the Vice Chancellor and to the appellant or grievant.

The decision of the Vice Chancellor is final.

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## **6. COMMUNITY THAT MUST KNOW THIS POLICY**

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University Management, Provosts, Program Coordinators, Directors, Faculty, Hall Wardens, Porters, Janitors and Students.