AFE BABALOLA UNIVERSITY, ADO EKITI

Energy and Utilities Sustainability Master Plan

Effective Date: January 10, 2020
Last Date of Review: January 10, 2022
Due for Review: January 10, 2023

1. PURPOSE

ABUAD has developed and launched its Energy and Utilities Sustainability Master Plan as a roadmap for achieving long-term goals and strategies that support the mission and vision of the University to enhance energy efficiency and conservation practices across all facilities, buildings, and campuses of ABUAD.

2. POLICY DESCRIPTION

This Plan establishes the framework for acceptable protocols, practices, and operational standards that support the University's Strategic Direction, focus on furthering academic excellence, create a positive communal impact, and foster innovation to positively impact social transformation.

The Plan elaborates strategic programs, activities, and partnerships to guide sustainability planning, budgeting, operations, and all aspects of the University.

3. POLICY STATEMENTS

1. **100 percent Renewable Energy by 2022:** ABUAD aspires to achieve a 100% shift to electricity generated from renewable energy sources across campus by 2022. This will be accomplished through a combination of divesting investments from carbon-intensive energy industries, especially coal and oil; intensified renewable energy production/distribution efforts; demand reduction strategies, energy procurement, and behavior changes.

2. **Reduce Carbon Emissions Resulting From Operations, Energy Procurement, and Energy Usage:** ABUAD aims to reduce Scope 1, Scope 2 and Scope 3 carbon emissions by 100% by December 31, 2022, with FY2020 as the baseline year.

3. **Net Zero Energy Consumption:** All ABUAD facilities shall cap the Utility plant's total energy consumption at FY2020 levels. The accomplishment of this initiative will provide for an increase in campus gross square footage and energy usage while the energy consumed by utility plants to meet these campus needs remains at levels below that which was consumed in FY2020. Utilities must continue to provide "world-class" energy services to support ABUAD as a top and fastest growing university in Nigeria.

4. **Pursue 2000 kW of Solar Energy Supply on Campus:** ABUAD aims to achieve 2000 kilowatts of solar capacity on campus by December 31, 2023. Renewable energy is the backbone of a low-carbon economy, which is the fast-approaching future of our country. We will utilize creative financing and partnerships to bring renewable energy supply to

campus in a positive manner, directly supplying into our electric grid behind the meter, such that renewable energy generated on campus stays on campus and powers learning and research at ABUAD.

5. **Electric Vehicles (EV) by 2025:** As the use of EVs become more accessible in Nigeria, ABUAD will aim to become the first University in Nigeria to achieve a complete transition to Electric Vehicles in its transportation fleet by December 31, 2025. As the University moves forward to deploy electric vehicles in all its transportation fleets, it is imperative that utility electric infrastructure throughout campus be able to support the needs of not only a University fleet of EVs, but that of commuting students, faculty, and staff. The Directorate of Works shall continue to identify and monitor the deployment of EV charging infrastructure needed to achieve a mass utilization of required electric vehicle charging on ABUAD campus by the end of year 2025.

6. **Energy Efficiency and Lights Out Volunteers Corps Program:** In line with ABUAD Conservation Policy, the Office of Sustainability shall establish a Volunteer Lights Out Corps program, a team of sustainability champions equipped to reduce energy waste from lights being left on, particularly at night and over the weekend across campus. Participants and volunteers are asked to turn off lights anytime they happen upon a room not being utilized. Volunteers shall be asked to spend just fifteen minutes of their time going from room to room in larger and potentially more impactful buildings on campus including. The Lights Out Corp Program reduces energy waste, saves money, and engages the campus community in working toward sustainability goals.

7. **Reduce Utility Plant Water Consumption:** Reduce potable water consumption used for plant operations and that used for irrigation by 35% by December 30, 2022 (FY22) on a gallon per campus square foot basis, with FY2020 as the baseline year. Water is a critical resource to Utilities for the functioning of plant operations. A smart approach to critical resource management is to focus on the best use of this resource and in parallel eliminate waste.

8. **Develop Strategies to Reduce Campus Stormwater Overflow:** Develop strategies to reduce, to eventual elimination, the uptown campus stormwater overflow (CSO) system, using smart, green infrastructure interventions. Utilities will work to develop a long-term strategy to re-direct all stormwater systems to beneficial reuse.

9. **Domestic Water Initiatives:** Using targeted and smart irrigation systems combined with stormwater management, Utilities will identify sustainable supplies for the campus irrigation system. The following technologies, measures, and initiatives have been or will be implemented to ensure that the use of water for on-campus irrigation is controlled and recycled to the extent possible:

    - Targeted Irrigation
    - Irrigation Timers
    - Central Irrigation Control System

10. **Stormwater Management:** Utilities created a Stormwater Management Plan which includes the following key activities:

    • Utilize campus detention tanks to manage off-campus runoff during rainfall events, capture and re-use where possible, preserve Elemi River flow and promote groundwater recharge. Capturing the initial volume of runoff will also reduce the impacts of larger rainfall events.

• Work with Colleges, Centers, Institutes, ABUAD Green Club, and other student entities to develop beneficial utilization opportunities for the capture and re-use of stormwater.

11. **Tree Planting and Revival of Afforestation:** Promote tree planting across the University to advance afforestation and carbon sequestration.

4. PROCEDURE FOR GRIEVANCES

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 appeals 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.

5. COMMUNITY THAT MUST KNOW THIS POLICY

University Management, Provosts, Program Coordinators, Directors, Faculty, Students.