

الاسكندرية: 2021/12/15

## Policy of Energy Management and Environment

### 1. Background

The energy crisis and global warming concerns are gaining much attention from governments to counteract their impacts on environment. This can be accomplished via distributed generation and efficient utilization of available renewable energy sources in cooperation with traditional ones. Thus, optimal energy management is a high priority all over the world. Since Arab Academy for Science and technology is considered as a center of excellence not only in Egypt but in the ARAB League, it is quietly concerned with energy research which is involved in the AAST Strategic Plan 2015-2020 and in the updated version 2021-2026 in particular Goal (5) and its associated objectives and policies.

**Goal (5):** Serve the Community Efficiently and Resourcefully.

**Objectives (2):** Develop Cooperation with Government and Public Enterprises.

**Policy (4):** Enhance Energy Research Center to serve the Community.

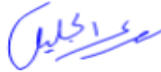
**Objectives (3):** Sustain Serving the Surrounding Community and the Environment.

**Policy (2):** Encourage focused research in environmental design, green architecture and sustainability.

An Energy Research Unit and an Energy Management Committee have been established since 2014 in order to guarantee the implementation of the developed energy strategies. The head of the Energy Research Unit altogether with the Energy Management Committee has started to determine energy policies during the meeting that was held on the 30<sup>th</sup> of November, 2016. Hence, the first version of the energy policy for AAST has been approved on the 15<sup>th</sup> of December 2020. Hereby, this is the policy updated version approved on the 15<sup>th</sup> of December, 2021.

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## 2. Policy of Energy

- 1- Extending the use of energy efficient technology in AAST buildings such as lighting, HVAC ... etc.
- 2- Analysis of the energy demand, updating development priorities and upgrading the existing facilities.
- 3- Performing regular (online) monitoring and analysis of energy consumption.
- 4- Ensuring the implementation of smart building technology by employing clean energy, energy efficiency strategies and Building Management System (BMS) in new buildings design.
- 5- Utilizing the unused space to build clean energy resources such as PV plants and Solar heaters.
- 6- Regular monitoring to the air quality and environment condition.
- 7- Preparing a specialized practical training in the field of energy management and renewable energy for serving the community needs.
- 8- Carrying out consultant services in the field of energy management and environment.
- 9- Upgrading the existing education programs and develop a new program (B.Sc. and Masters) relegated to energy and environment.
- 10- Linking graduation project in AAST with energy research and community needs.

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