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Energy Efficiency Policy for Renovations and New Constructions  
Effective Date: July 6, 2021  
Approved By: Board of Trustees / Lebanese French University

### I. Policy Statement and Scope

The Lebanese French University (LFU) recognizes its responsibility to conserve natural resources and reduce environmental impact through the efficient use of energy in all buildings, facilities, and operations. This policy establishes the university's commitment to implementing best-practice standards for energy efficiency and sustainable construction between 2021 and 2024.

The policy applies to every renovation and new-construction project carried out by LFU, including academic, administrative, and service buildings, as well as all auxiliary facilities. It also extends to all third-party contractors, suppliers, and consultants engaged in design, procurement, or construction activities on behalf of the university.

### II. Purpose

The purpose of this policy is to ensure that all university developments are designed, built, and operated with maximum energy efficiency and minimum environmental footprint. Specifically, the policy seeks to:

1. Promote an institutional culture of sustainability across all departments and stakeholders.
2. Establish measurable standards for energy-efficient design, construction, and maintenance.
3. Encourage the integration of renewable energy technologies such as solar power and daylight optimization.
4. Reduce energy costs while improving thermal comfort and indoor environmental quality.
5. Provide a framework for monitoring, evaluating, and reporting energy performance outcomes.

### III. Policy Objectives (2021 – 2024)

To realize these goals, LFU will pursue the following objectives:

- a) **Reduce overall energy consumption** in new and renovated facilities by 25 – 30 percent compared with pre-2021 baselines.
- b) **Upgrade at least 50 percent** of existing university buildings to meet updated efficiency and insulation standards.
- c) **Incorporate renewable energy systems**, including solar photovoltaic panels, efficient lighting, and smart control devices.
- d) **Adopt intelligent building management technologies** to automatically regulate temperature, lighting, and occupancy sensors.
- e) **Encourage sustainable procurement**, giving preference to materials with low embodied carbon and high durability.
- f) **Establish an energy performance database** to track usage trends and identify opportunities for further conservation.

g) Educate and train all relevant staff, faculty, and students on practical energy-saving measures within their workspaces.

#### IV. Implementation and Responsibility

Implementation of this policy shall be coordinated by the University Administration in collaboration with the Engineering Department, Procurement Office, and Sustainability Committee.

- The Administration ensures that project proposals, financial allocations, and contract approvals incorporate clear energy performance targets.
- The Engineering Department reviews building plans to confirm compliance with design and system-efficiency requirements, conducts periodic audits, and reports energy performance metrics annually.
- The Procurement Office includes mandatory sustainability criteria in all tender documents and verifies contractor adherence before awarding contracts.
- The Sustainability Committee monitors progress, evaluates annual outcomes, and recommends corrective or preventive actions to improve results.

All external contractors and consultants must submit an Energy Compliance Report prior to final project approval.

#### V. Monitoring, Evaluation, and Reporting

LFU will implement a structured five-year monitoring framework covering 2021 – 2024. This framework includes:

- Annual energy-performance audits for all new and renovated facilities.
- Internal reviews conducted every 12 months to assess adherence to efficiency benchmarks.
- Periodic carbon-emission assessments and measurement of renewable energy contribution.
- Publication of a yearly Sustainability Performance Report, summarizing key metrics, best practices, and progress toward targets.

Evaluation results will inform future planning, budgeting, and resource allocation decisions.

#### VI. Training and Awareness

The university will promote a strong culture of awareness and responsibility toward energy conservation by:

1. Conducting workshops and seminars for engineers, architects, facility managers, and maintenance personnel.
2. Launching student-led initiatives and campus campaigns to encourage behavioral change.
3. Providing technical training programs for staff involved in design and project management.
4. Partnering with national and international institutions to exchange knowledge on clean-energy innovation and sustainable architecture.

These efforts aim to embed environmental stewardship in every aspect of LFU's academic and operational activities.

VII. Review and Update

This policy will be reviewed annually to assess performance, update standards, and incorporate new technologies or regulatory developments. Revisions will be documented and circulated to all departments to maintain transparency and accountability.

VIII. Approval and Endorsement

Approved By: Board of Trustees / Lebanese French University

Implemented By: University Administration and Engineering Department

Effective Period: July 2021 – December 2024



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