7.4.4 University inform and support government in clean energy and energy-efficient technology policy development

Alexandria University actively supports government initiatives in clean energy and energy efficiency by supplying research, data, and policy guidance. Through sustainability reports, applied research projects, digital monitoring tools, and international collaborations, the institution shares insights regarding energy-efficient technologies and renewable energy solutions. It engages in joint programs with ministries, industry sectors, and global partners, including training sessions, workshops, and advisory services, to advance Egypt's Vision 2030 and the United Nations Sustainable Development Goals. By integrating science-based recommendations into national strategies, Alexandria University acts as a model for evidence-driven, sustainable energy governance.

- Alexandria University has established an integrated governance and sustainability framework that embeds sustainable development into institutional leadership, operations, education, research, and community engagement. Sustainability initiatives are supervised centrally through the Vice President for Community Service and Environmental Development and implemented across faculties through Vice Deans and faculty sustainability committees.

- Alexandria University has dedicated 137 staff members to sustainability governance, including university leadership, sustainability office members, vice deans, and faculty sustainability committees. Their activities include sustainability reporting, policy development, workshops, research collaboration, stakeholder engagement, and living-lab projects focused on energy, water, waste, and circular economy themes.

- Alexandria University has consistently published its sustainability report on its official website for four consecutive years, covering the 2022, 2023, 2024, and 2025 reporting periods. Each report provides a comprehensive overview of the university's sustainability achievements, including environmental performance, green campus infrastructure, academic and research initiatives aligned with sustainable development goals, and community engagement activities that support Egypt Vision 2030. The reports also highlight formal institutional policies and governance frameworks for integrating sustainability across education, research, operations, and outreach. These policies remain publicly accessible and systematically embedded within strategic planning and operational practices. Continuous annual publication reflects strong commitment to transparency, accountability, and sustainable development.

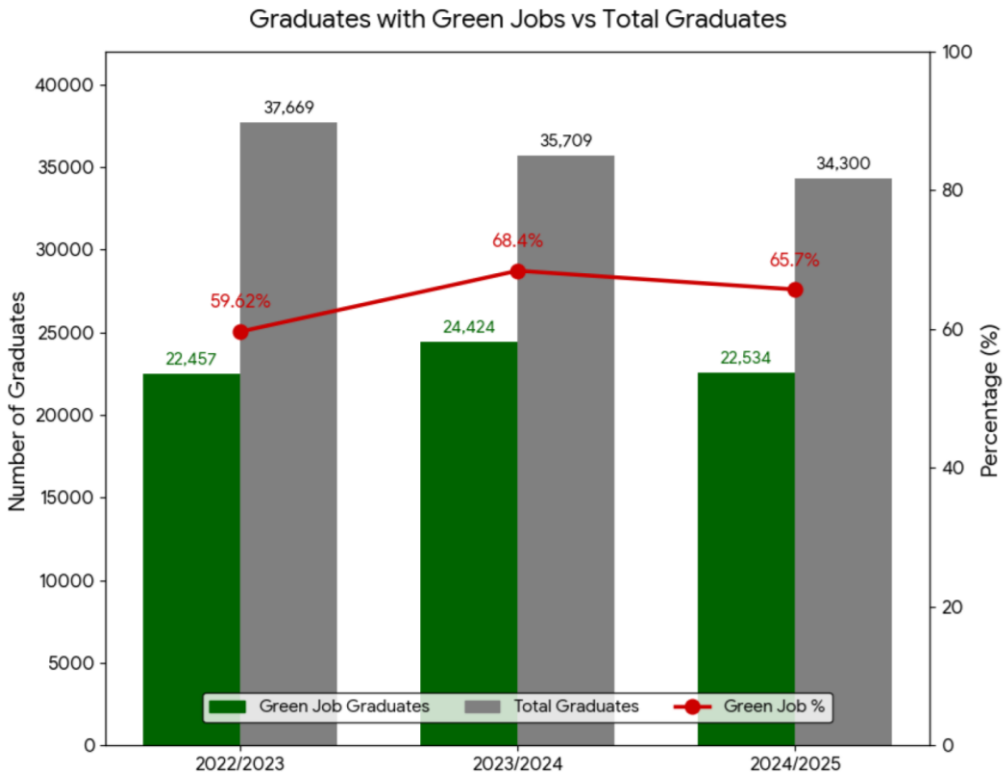
- Alexandria University has established a comprehensive portfolio of 26 innovative programs and projects that promote renewable energy, energy efficiency, climate change mitigation, and sustainable resource management. These initiatives integrate education, research, infrastructure, and community engagement through renewable energy centers, solar and wind power systems, green building technologies, biofuel research, circular economy projects, and international academic partnerships. The University operates renewable energy centers at the Faculty of Agriculture, Faculty of Science, and Faculty of Engineering, where hybrid solar–wind systems,

photovoltaic installations, and Building-Integrated Photovoltaic (BIPV) technologies support both campus operations and applied research. In addition, Alexandria University offers specialized postgraduate programs in climate change, sustainable fisheries, natural resource sustainability, and the blue economy through Erasmus+ and other international collaborations. Campus sustainability projects, including the Green Cycle initiative, greywater recycling, energy-efficient buildings, solar power stations, and plastic recycling laboratories, further demonstrate the University's commitment to reducing carbon emissions, improving resource efficiency, and preparing graduates to address global environmental challenges.

- The University has achieved 55.6% implementation of smart building technologies through the progressive integration of digital infrastructure and intelligent management systems across campus facilities. Key applications include QR code-based smart attendance systems, automated monitoring and reporting platforms, fire alarm and smoke detection systems, video surveillance, and digital access and safety controls. Training programs have also been conducted to support effective system adoption and operation. These initiatives contribute to improved operational efficiency, enhanced safety and security, reduced manual processes, and the advancement of a connected, data-driven campus environment.

- Alexandria University actively empowers students to lead sustainability initiatives that foster environmental awareness, innovation, community engagement, and social responsibility. During the reporting period, more than 30 sustainability activities were organized by student groups across the university, demonstrating active participation in advancing sustainable development goals. These activities included international conferences, scientific symposia, green chemistry campaigns, climate awareness events, water entrepreneurship bootcamps, research conferences, engineering competitions, workshops, exhibitions, and community outreach programs.

- Alexandria University continues to prepare graduates for careers that contribute to sustainable development and the green economy. As shown in the figure, the number of graduates employed in green jobs remained consistently high over the three academic years. In 2022/2023, 22,457 out of 37,669 graduates secured green jobs, representing 59.62% of total graduates. This proportion increased significantly to 65.7% in 2023/2024, with 22,534 graduates entering green employment out of 34,300 total graduates, and was maintained at 65.7% in 2024/2025. The sustained increase in the percentage of graduates employed in green sectors reflects the University's commitment to integrating sustainability into education, equipping students with the knowledge and skills required for emerging green careers, and supporting the transition to a sustainable and low-carbon economy.



- Alexandria University actively promotes sustainability-driven entrepreneurship through a dynamic innovation ecosystem that supported 46 sustainability-related startups during the reporting period. The University provides comprehensive incubation, mentoring, training, and commercialization support through initiatives such as the Artificial Intelligence Minds Incubator (AIM) and the Alexandria University Technology Incubator for Smart Systems (AUTISS), which foster innovative solutions in artificial intelligence, smart infrastructure, healthcare, agriculture, energy, and digital technologies. Student-led startups, including Samdha Company, develop environmentally friendly products by converting organic and agricultural waste into natural fertilizers and biodegradable materials, thereby reducing waste, supporting sustainable agriculture, and conserving water. In addition, entrepreneurship competitions such as the Startup Olympics and international programs, including the Bio-iChallenge and Hult Prize, encourage students and researchers to transform innovative ideas into market-ready businesses with significant environmental and social impact.



Artificial Intelligence Minds Incubator (Faculty of Engineering, Alexandria University)



Artificial Intelligence Minds Incubator (Faculty of Engineering, Alexandria University)



Alexandria University Technology Incubator for Smart Systems (AUTISS) Incubator (Faculty of Engineering, Alexandria University)



Agro-Food Industries Alliance Products



New partners

Agro-Food Industries Alliance Project

Startup name: "National Committee Sustainable Development"

Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED)

Description: Proposed Mission: Striving to maximize the utilization of the outputs of education and scientific research with the sustainable development goals "Egypt Vision 2030", linking them with the United Nations goals for sustainable development together with developing a framework for the educational system governance aiming at achieving the well-being of society. It includes green, sustainable development and innovative incubators.

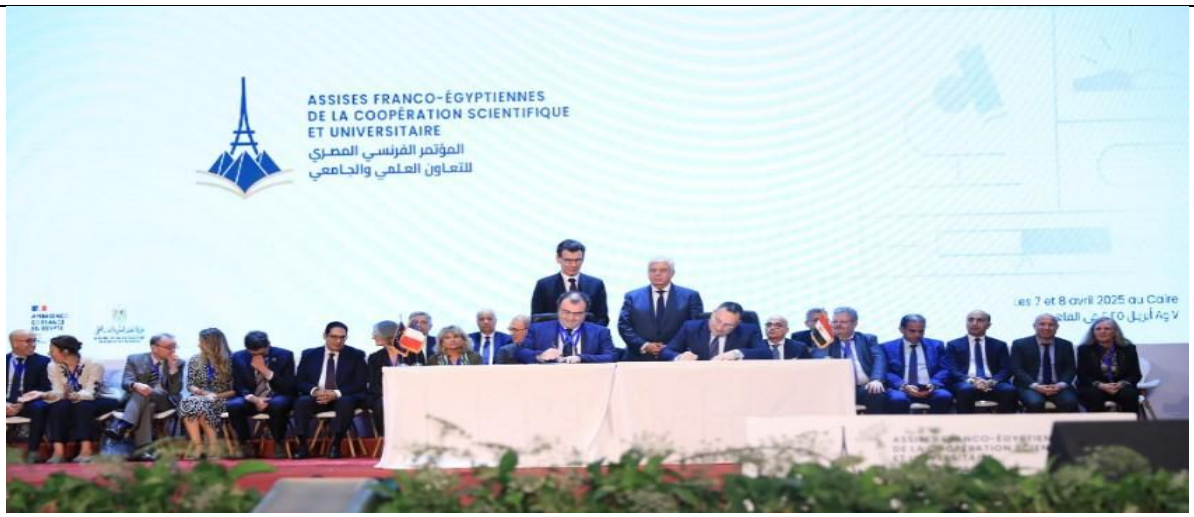


Samdha Company, founded by Musaad Darwish, a student in the Department of Civil and Environmental Engineering at the Faculty of Engineering



Samdha Company: The plants in the 2 photos on the left are planted in presence of natural organic fertilizers

- The consistent downward trajectory aligns with the emission reduction pathways recommended by the Intergovernmental Panel on Climate Change for limiting global warming to 1.5 °C. It supports Egypt's updated Nationally Determined Contributions under the Paris Agreement. By embedding these measures into core operational planning, the university demonstrates a replicable model of science-based climate governance within the higher education sector.



Five Cooperation Protocols Signed Between Alexandria University and French Universities





A seminar organized on November 2025 by the Faculty of Engineering in cooperation with Russian delegation from Rosatom, titled “The Role of Engineering in the Peaceful Use of Nuclear Energy.” Held as part of the 2025 Science and Innovation Celebration, the seminar addressed the role of artificial intelligence engineering in advancing the nuclear industry, the integrative relationship between different engineering disciplines and the nuclear sector, and presented insights into the future of nuclear energy worldwide, with a focus on the promising career paths available in this field.





Alexandria University, received on November 2025 a delegation from the Russian company

Rosatom, headed by Ms. Elena Alexandrova, an official from the events sector at Atom Energy of the Future. The visit aimed to explore avenues for strengthening scientific and research cooperation between Alexandria University, the Russian company, and academic institutions in Russia.





The closing ceremony of the "Flow and Foresight" workshop (April 2025), organized by the Faculty of Engineering at Alexandria University in collaboration with the University of Toulon and the Barcelona Advanced Computing Centre. The workshop that was part of the Pharos project, funded by the government of the Southern France region, aimed to discuss climate change and hydrodynamic processes to enhance resilience to marine and submersion hazards. The two-day event was held at the Faculty of Engineering, the Bibliotheca Alexandrina, and the French Cultural Institute. highlighted the importance of the timing of the workshop in light of accelerating climate change and increasing carbon emissions, and Alexandria's exposure to the repercussions of these changes and their impact on infrastructure. She noted the Alexandria Governorate's adoption of several initiatives in the fields of smart green projects, clean energy, sustainable transportation, and waste recycling.





Introductory Meeting on Requirements of Second Call for Research Projects of European Regional Cooperation Program Interreg NEXT MED (January 2025). The requirements for obtaining funding for applicable research projects aimed at enabling Mediterranean countries to achieve more sustainable, intelligent, competitive, cooperative, and comprehensive development with lower carbon emissions and pollution rates, by supporting youth environmental projects and green transformation projects in the sectors of education, health, waste management, confronting climate change, entrepreneurship, applied research, rationalization of energy consumption, water scarcity research, and governance, and focusing

on areas of policy development, awareness-raising, training, modern technology, and innovation.





Under the Strategic Partnership between the Arab Republic of Egypt and the European Union Ministry of Planning, Economic Development and International Cooperation Witnesses the Launch of the "EU 4 Water Preneurs" Training Camp for Entrepreneurs in the Water Sector (May 2025). The initiative aims to stimulate the young energies of Egyptian innovators, researchers, and students, and encourage them to develop scientific and realistic solutions applicable on the ground to address the increasing and interconnected challenges facing Egypt in the fields of water, energy, and food.





President of Alexandria University, received Ambassador Olivia Todrian, Ambassador of Romania in Cairo, to discuss means of cooperation in academic and research fields of common interest (January 2025) and to develop cooperation with Romanian academic institutions in scientific and research fields of common interest through the exchange of expertise, ideas and scientific research, especially in the fields of nanotechnology, water technology and energy.



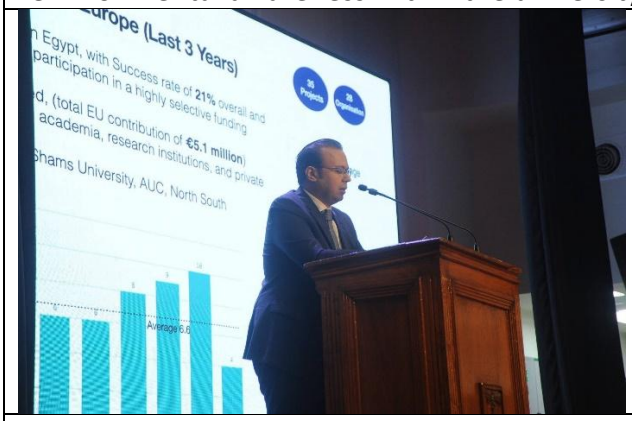

In February 2025, Alexandria University Council approved the cooperation agreement to establish an academic program for partnership in nuclear law between Alexandria University (Faculty of Engineering) and the International Atomic Energy Agency in Vienna, Austria.




In May 2025, Alexandria University's Graduate Studies and Research Council Discusses Opening Applications for Projects Funded by Science, Technology, and Innovation Funding Authority (STDF). These projects are funded by EGP 3 million per project in the fields of water, food and agriculture, health, information and communications technology, advanced industries, renewable energy, and artificial intelligence. The program also includes the Egyptian-Chinese Joint Research Laboratories Establishment Program (First Call), with funding of up to EGP 20 million from the Egyptian side and 3 million yuan from the Chinese side for projects including waste management and recycling, green energy, low-carbon technology, smart agriculture, artificial intelligence, and advanced robotics. The deadline for applications for these projects is June 23, 2025.



In November 2025, minister of Higher Education and Scientific Research, announced that Alexandria University won second place in the "Best Eco-Friendly University" competition among public universities established more than fifty years ago. It is worth noting that the competition was based on precise evaluation criteria, including the efficiency of green infrastructure, energy management, resource consumption rationalization, waste management, in addition to student initiatives that contribute to raising the level of environmental awareness within the university community.





A workshop organized by Alexandria University in cooperation with the Academy of Scientific Research and Technology and the Horizon Egypt Program on "European Union Funding and Support for Scientific Research and Innovation." The workshop aimed to introduce European Union-funded projects and how researchers at Alexandria University can benefit from them, as well as how to apply for these projects, in addition to introducing grants provided by the European Union. Alexandria University has a role in the "European Horizons" program as a partner country in this agreement, which was initialed in April 2025. He emphasized that this program is an exceptional opportunity for researchers at Egyptian universities and research centers to obtain funding for their innovative research ideas. He also discussed the Prima initiative, which provides the necessary funding for competitive projects in the fields of water, food, agriculture, and energy, with joint funding from European Union countries and countries of the Southern Mediterranean.



1- 2nd International Conference on the Role of Organic, Medicinal, and Pharmaceutical Chemistry.

In collaboration with ACS Egypt, our chapter actively supported the organization and smooth running of this international summit (July 14–15, 2025), serving 230 total attendees. Our members managed the event flow, gatekeeping, information desk, and poster hall coordination. The experience allowed members to experience professional conference management while networking directly with international speakers from Georgia State University.



Student organizations such as student chapters, engineering groups, and pharmaceutical associations played a leading role in delivering these initiatives. Their activities promoted green chemistry, circular economy principles, climate action, sustainable materials, water innovation, biodiversity conservation, scientific communication, entrepreneurship, and environmental education through hands-on workshops, public awareness campaigns, interactive exhibitions, field training, and international collaborations across campus facilities and academic faculties.





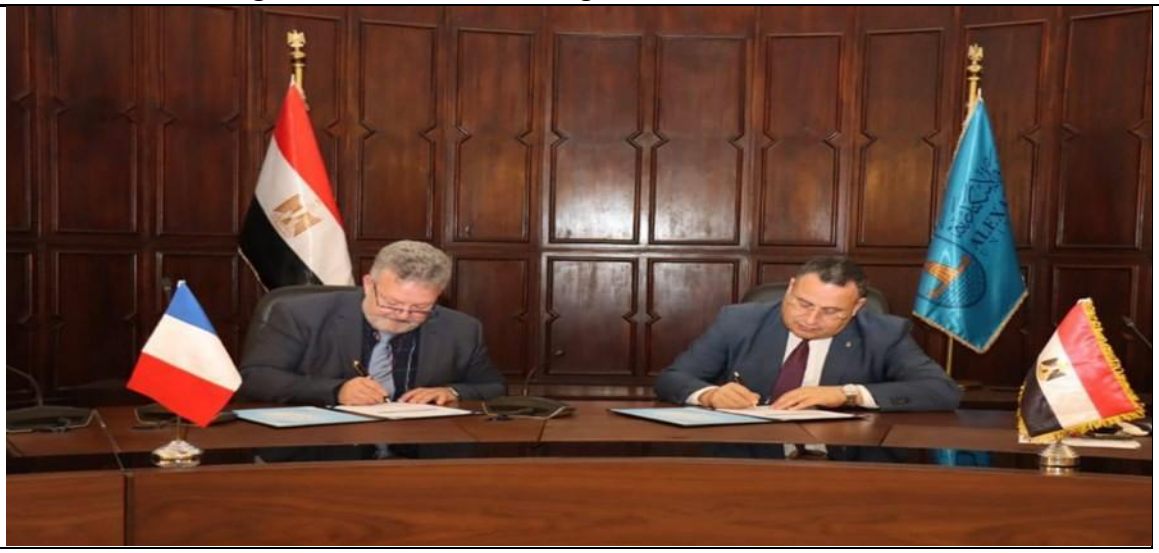
Centre of Excellence for Water at Alexandria University Organizes Workshop (August 2024) on Relationship between Water, Energy and Food in Cooperation with the Arab Water Council. The workshop aimed to deepen the comprehensive understanding of the interrelationship

between these three resources (water, energy and food), highlight the challenges they face, and propose sustainable solutions, and the latest developments in this field, exchanging creative ideas, and enhancing cooperation between industry and academic institutions.



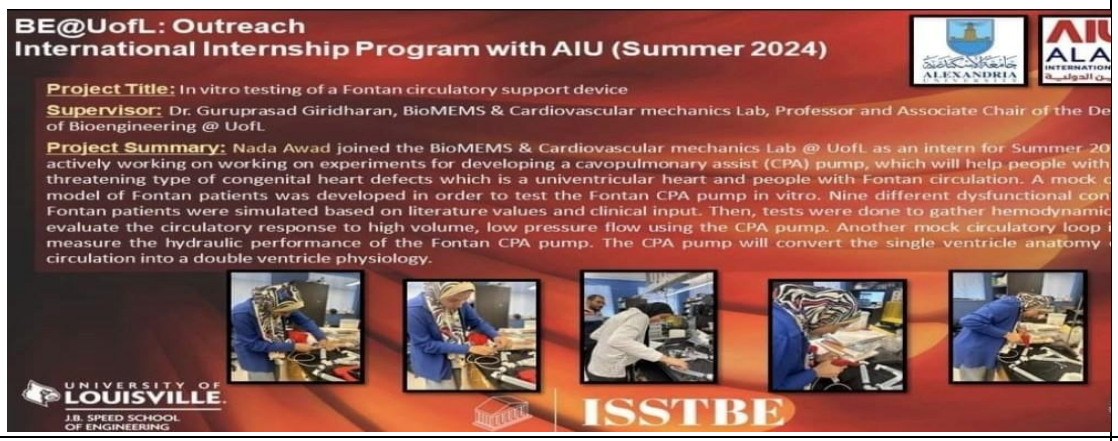


Alexandria University Receives Supreme Council of Universities Delegation for Best Environment-Friendly University Competition August 2024. Explaining the role of the university in serving and developing the community, and the vision of Alexandria University towards raising the awareness of its students to care about environmental issues, contributing to building a better and more sustainable future for the younger generations, and reaching a green university by adhering to a number of standards, the most important of which are education and scientific research, university infrastructure, energy and climate change standards, waste management, and water management.





AU and Université du Littoral Côte d'Opale (ULCO) – Dual Degree Cooperation Programs







Alexandria University's Faculty of Engineering Students win First Places in Annual Summer Training Competition at University of Louisville, USA. The summer training program comes within the framework of the distinguished partnership between Alexandria University and the University of Louisville, USA, over the past years, which includes the partnership in summer training in research laboratories at the University of Louisville, and the partnership in the 2+2 bachelor's programs to grant double degrees in computer science and engineering, and biomedical engineering majors. This year was the graduation of the first group that joined the University of Louisville through this partnership in the field of biomedical engineering, numbering
five students.



Inauguration of First International Conference on Advances in Science for Sustainable Development (ICASSD 2024) May 18, 2024, the conference aims to harness science and technology to confront the challenges facing our world today. successive scientific developments have begun to play a pivotal role in finding solutions to pressing issues such as climate change, artificial intelligence, and environmental degradation.



Centre of Excellence for Water at Alexandria University Organizes Workshop on Relationship between Water, Energy and Food in Cooperation with the Arab Water Council in 15 august 2024. The workshop aimed to deepen the comprehensive understanding of the interrelationship between these three resources (water, energy and food), highlight the challenges they face, and propose sustainable solutions, and the latest developments in this field, exchanging creative ideas, and enhancing cooperation between industry and academic institutions.



The Faculty of Pharmacy won third place in the Alexandria Governorate for the 2024 National Initiative for Green Smart Projects with its 'Green Cycle' project, competing in the non-profit community initiatives category. This marks the project's second consecutive year of recognition, having previously secured first place last year.

USAID FROM THE AMERICAN PEOPLE

ALEXANDRIA UNIVERSITY

The American University in Cairo

Center of Excellence for Water

CALL FOR APPLICATION

FOURTH WATER-ENERGY-FOOD NEXUS SCHOOL 2024

DATE 3 – 26 AUGUST 2024

Call Launch Date: 24 April 2024

Submission Deadline: 14 May 2024 - 11:55 pm (Cairo Local Time)

Exchange, Training, and Scholarships Pillar activities are implemented in cooperation with:

TEMPLE UNIVERSITY

ASWAN UNIVERSITY

This document is made possible by the generous support of the American people through the United States Agency for International Development (USAID). The contents are the responsibility of The Center of Excellence for Water and do not necessarily reflect the views of USAID or the United States Government.

The Center of Excellence for Water at Alexandria University is pleased to announce the opening of applications for the fourth workshop entitled (The Relationship between Water - Energy - Food), which will be held at the American University in Cairo during the period from August 3-26, 2024. Applications are open until May 14, 2024.



Alexandria University President Receives Australian Ambassador to Cairo and his accompanying delegation, to discuss enhancing the frameworks of joint cooperation between Alexandria University and Australian universities and academic institutions in linking scientific research to industry, especially in the fields of water, energy, and agriculture, through the activities and programs provided by the Water Excellence Centre at the university.

ALEXANDRIA UNIVERSITY

Policy on Energy and water sustainable use

Alexandria university is Committed to pursuing sustainable development within and through the university and to reassessing higher education and its role in the transition to more sustainable societies. This includes building synergies and collaboration in the search for effective and innovative approaches to solving today's as well as future sustainable development challenges.

The university ensures that all renovations and establishment of new buildings are following energy efficiency standards and water conservation strategies.

The university ensures divesting investments and purchases from Carbon-intensive energy industries particularly coal and oil.

The university through its faculties is committed to maximise water reuse across the university buildings and through all services provided in the process of education and research

The objective of this statement is Commitment to offering an open, interactive and collaborative forum for discussion and action, to raise awareness and advocate for changes needed changes in higher education to best serve the goals of sustainable development, (SDGs) as well as building international linkages and cooperation on the basis of core values of academic freedom, institutional autonomy and related local and global responsibilities to society.

Being uncompliant with the commitment to purse sustainable development issue will be regarded as interfering with personal development of the students, and the university administration will act accordingly

Policy created September 2019

Policy reviewed October 2022

Prof. Abdel Aziz Konsowa

University President

A. Konsowa

جامعة الإسكندرية
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Alexandria University Sustainable Investment policy.

A sustainable investment policy refers to the set of guidelines and principles that Alexandria University . The policy aims to align the organization's investment activities with its sustainability goals and values.

Implementing a sustainable investment policy align investments strategies of the university with sustainable developement Goals, and promotes responsible investing practices, and contribute to the transition to a more sustainable and resilient economy. It also attracts socially and environmentally conscious investors and stakeholders who value sustainable investment practices.

Important elements include:

1. ESG Integration: The policy should emphasize the integration of ESG factors into the investment decision-making process. This involves considering environmental and social risks and opportunities, as well as governance practices of potential investments. ESG analysis can help identify companies or projects that demonstrate strong sustainability performance.
2. Sustainable objectives: The policy defines the university's sustainability objectives and priorities focusing on on specific ESG themes, such as climate change, renewable energy, social justice, or diversity and inclusion. Such objectives help guide investment strategies and ensure consistency with sustainability goals .
3. Engagement and Stewardship: The policy outlines the organization's commitment to active engagement with investee companies to encourage improved ESG practices. This includes voting on shareholder resolutions, engaging in dialogues, and exercising influence to promote positive change. Stewardship activities help drive sustainable behavior and align investee companies with sustainability goals.
4. Ongoing review and monitoring: The policy includes procedures for ongoing monitoring and review of investments to ensure they continue to meet sustainability criteria. Regular assessments of portfolio performance, ESG risks, and evolving sustainability trends help maintain alignment with the university's strategic objectives
5. Positive Impact investments: The policy ensures commitment to investing in projects that generate positive environmental and social impacts. This could include investing in renewable energy projects in new buildings of the universities and in the upgrade process taking place, , clean technologies in the use of energy and water, sustainable infrastructure with green areas .
6. Reporting and transparency: The policy encourages collaboration with the industry sector, and stakeholders to advance sustainable investment practices. This involves

sharing best practices, participating in initiatives, and supporting industry-wide efforts to promote sustainability.

Adopting this sustainable investment policy, the university contributes to positive social and environmental outcomes while generating financial returns. It demonstrates a commitment to responsible investing and can attract stakeholders who value sustainability.

Following this strategy, the university has established several investment projects e.g. technology park for incubation and acceleration, Alexandria National university, International university with two branches in Chad and south Sudan, as well as International Branch Campuses (IBC).

University president Endorsement

A. Konsowa

Prof. Abdel Aziz Konsowa

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Alexandria University Sustainable Procurement/purchasing policy.

A sustainable procurement or purchasing policy refers to the set of guidelines and principles that Alexandria University follows when procuring goods, services, or works in a sustainable and socially responsible manner. It aims to minimize the negative environmental, social, and economic impacts associated with the procurement process and promote sustainable practices throughout the supply chain.

Implementing a sustainable procurement and purchasing policy brings several benefits including reduced environmental impact, enhanced reputation, cost savings through efficiency improvements, and increased social responsibility. The element of the policy are used as guidelines that the university follows when making decisions with a focus on environmental, social and governance (ESG) factors and ensure consistency with sustainability goals.

Below is the set of key elements included in the policy:

1. Environmental Considerations: prioritization of environmentally friendly products and services that have a reduced carbon footprint, conserve resources, promote energy efficiency, and minimize waste generation. This includes the use of renewable materials, promote recycling and waste reduction, and specify environmentally preferable conditions and standards.
2. Social and Labor Standards: The policy require suppliers to comply with social and labor standards, including fair wages, safe working conditions, and respect for human rights. Such a policy promotes the use of suppliers who have fair trade or responsible sourcing certifications and encourage diversity and inclusion
3. Ethical Sourcing: The policy addresses issues such as conflict minerals, child labor, and corruption. It requires suppliers to provide evidences of responsible sourcing practices and ensure that they do not engage in unethical or illegal activities.
4. Screening and Exclusions: The policy includes criteria for screening and excluding certain investments based on negative ESG factors. For example, it may exclude investments in companies involved in fossil fuel extraction or those with poor labor practices. This approach aims to align investments with ethical and sustainable principles
5. Supplier Evaluation and Selection: The policy outlines criteria for evaluating and selecting suppliers based on their sustainability performance. It considers factors such as environmental management systems, social responsibility practices, and adherence

to relevant standards. The selection is based on companies or projects with strong ESG performance or those focused on sustainable solutions, such as renewable energy, clean technology, or social impact initiatives

6. Life Cycle Assessment: The policy may encourage the consideration of a product's life cycle impacts, including the extraction of raw materials, production processes, transportation, use, and disposal. This approach aims to select products that have a lower overall environmental impact throughout their life cycle.
7. Collaboration and Engagement: The policy emphasizes collaboration with suppliers, stakeholders, and industry groups to promote sustainability initiatives and innovation. It encourages wherever possible partnerships for knowledge sharing, and joint project.
8. Monitoring and Reporting: The policy establishes mechanisms to monitor and measure the effectiveness of sustainable procurement practices. Regular reporting is routinely carried out to track progress, identify areas for improvement, and communicate achievements.
9. Training and Awareness: The policy requires training programs as a must to educate staff and suppliers about sustainable procurement practices, and foster a culture of sustainability within the university

University president Endorsement

A. Konsowa

Prof. Abdel Aziz Konsowa