

MSA Environmental Conservation and Sustainability

MSA University Green Strategy 2022-2025

Establishment of the Environmental Conservation and Sustainability Office:

Duties:

The office studies scientific topics that include several axes dealing with climate change and its impact on the globe, smart waste management, sustainable green economy, how to benefit from modern science technology in monitoring climate changes and raising awareness of the risks arising from climate change and its impact on life on Earth. The office also encourages the faculties of the university to add environmental subjects to the research plans of the various faculties' scientific research areas. The office's main role is to follow up the implementation of the university's green strategy.

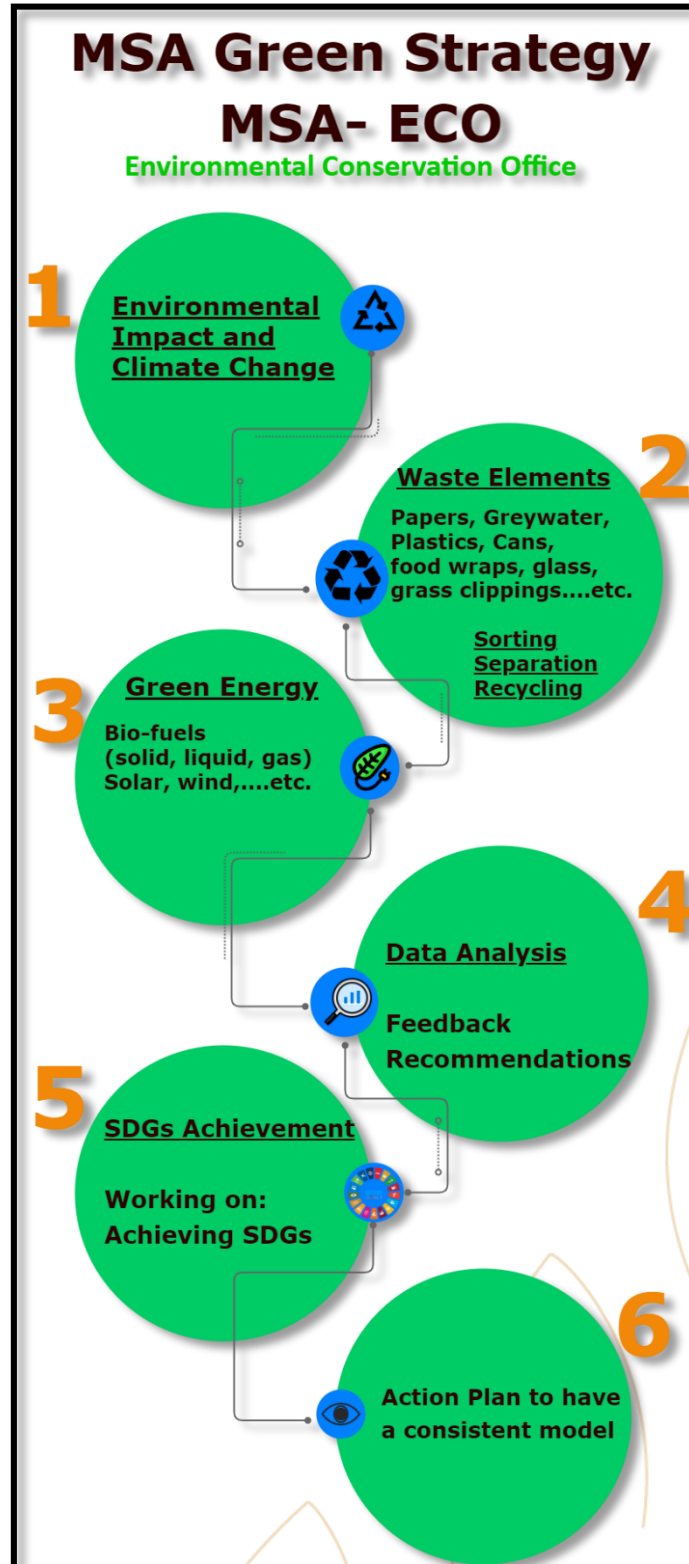
Aim:

Make October University for Modern Sciences and Arts (MSA) an internationally recognized model for environmental sustainability in all aspects of its planning, operations, teaching and research, and engagement with the public.

Objectives:

- Make MSA a model for energy management and wise consumption.
- Create a model for waste reduction, recycling and management.
- Make MSA a model for water management and wise consumption.
- Create a model for travel and transportation management.
- Make the MSA campus a model for biodiversity promotion.
- Make MSA a globally recognized center for the promotion of climate reasonableness.
- Incorporate all seventeen Sustainable Development Goals into MSA's strategic goals and activities.

- MSA Green Building Standards This office will pursue (Green) Building Standards include process-oriented requirements to ensure that all sustainable design and operations opportunities are vetted and that performance requirements are achieved in a cost-effective manner.



THE FIRST BRITISH HIGHER EDUCATION IN EGYPT

26th July Mehwar Road Intersection with Wahat Road, 6th of October City, Egypt
Tel: 00238371113 Postal code: 12451 Email: info@msa.edu.eg
Hotline: 16672 Website: www.msa.edu.eg

General Actions:

- Organize workshops and training courses to increase the awareness about MSA's integrated system for ISO 9001:2015 - Quality Management Systems, ISO 14001:2015 - Environmental management systems, and ISO 45001:2018 - Occupational Health and Safety.
- Organize workshops and training courses to increase the awareness about the seventeen goals of sustainable development and how to implement its three pillars (Economy, Society and Environment).
- Organize workshops and training courses about impacts of climate change and the worldwide overwhelming scenarios and practices.
- Organize workshops and training courses about waste management and valorization.
- Organize workshops and training courses about water management and wise usage.
- Organize workshops and training courses about energy management and wise consumption.
- Organize workshops and training courses about circular, green and blue economy.
- Put an integrated action plan concerning biodiversity conservation and ecosystem services.
- Put an action plan concerning reducing the greenhouse gas emissions.
- Put an action plan for water, energy and environment nexus.
- Use inter- and multi-disciplinary collaboration to advance the three pillars of sustainability.
- Support efforts to achieve and retain green campus flag.

Thematic Actions:

Waste Management

- Implement the waste sorting bins in the whole university area.
- Implement more undergraduate projects concerning waste streams' management and waste valorization.
- Decrease the plastic consumption and replace all non-degradable plastic catering by ecofriendly catering utilities.
- Promote the utilization of biofertilizers and compost from recycling of lignocellulosic wastes in MSA gardens.
- Implement criteria for waste papers, solid and electronic wastes recycling and reuse.
- Organize an annual conference concerning waste management.

- Increase the collaboration with ministries, national governmental organizations, foundations and societal non-governmental organizations concerning waste management and recycling.
- Increase the collaboration with different industrial sectors to implement MSA out-puts for waste management.

Energy Management

- Attain all required public targets for energy reduction.
- Work on awarding ISO50001 standard energy management system.
- Pursue sustainable development goal number seven in order to ensure the long-term development of "clean energy."
- Implement best practices for energy conservation in the day-to-day operation of buildings, offices, and laboratories – building by building.
- Implement prototypes for renewable energy, for example, solar panels, wind power turbines, and biogas reactors.
- Manage heating and cooling systems to reach a comfortable working temperature without wasting any excess energy.
- Implement undergraduate projects concerning energy management.
- Organize an annual conference concerning renewable and green energy.
- Increase the collaboration with national energy sectors.
- Increase the collaboration with different industrial sectors to implement MSA out-puts for energy management and green energy.

Water Management

- Contribute to the achievement of Sustainable Development Goals eleven and twelve, namely sustainability and responsible consumption, in which "waste is not a waste until it is wasted."
- Work on integrating the concept of green and circular economy with entrepreneur MSA Club.
- Implement the waste sorting bins in the whole university area.
- Implement more undergraduate projects concerning waste streams' management and waste valorization.
- Decrease the plastic consumption and replace all non-degradable plastic catering by ecofriendly catering utilities.
- Promote the utilization of biofertilizers and compost from recycling of lignocellulosic wastes in MSA gardens.
- Implement criteria for waste papers, solid and electronic wastes recycling and reuse.
- Organize an annual conference concerning waste management.

- Increase the collaboration with ministries, national governmental organizations, foundations, and societal non-governmental organizations concerning waste management and recycling.
- Increase the collaboration with different industrial sectors to implement MSA out-puts for waste management.

Greenhouse Gas Management and Climate Change Mitigation

- Contribute to the achievement of Sustainable Development Goal thirteen, "Climate Action."
- Implement air quality monitoring stations.
- Periodically monitor and maintain MSA buses and parking areas to decrease the GHG emissions.
- Organize an annual conference concerning climate change.
- Increase the collaboration with ministries, national governmental organizations, foundations and societal non-governmental organizations concerning climate change and its mitigation.
- Increase the collaboration with different industrial sectors to implement MSA out-puts for mitigation of climate changes.