

You can undertake your social responsibilities by improving the energy efficiency of your factory.

Some suggestions that may help:

- Apply the energy management systems.
- Analyze the procedures and identify the sources of pollution.
- Utilize all resources efficiently.
- Take alternative sources of energy into consideration like solar energy, etc...
- Reduce the waste to the minimum possible quantity and introduce the means of recycling whenever possible.



RENEWABLE ENERGY AND ENERGY EFFICIENCY SECTOR



FEDERATION OF EGYPTIAN INDUSTRIES
Environmental Compliance office and Sustainable Development

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RENEWABLE ENERGY AND ENERGY SAVINGS FOR A BETTER FUTURE

Saving Energy in your Factory...

- Reduces the production costs and increases the competitive capacity of your products in both the local and international markets.
- Helps you in facing the increase in the energy prices.

"Our electricity and gas monthly bills have been reduced by approximately 30% ever since we have adopted the energy efficiency applications implemented by the environmental compliance office in my factory"

Engineer: Hoda Kamal
Modern Co. for Modern Industries

How can the Environmental compliance office help?

In the field of energy efficiency improvement

- Preparing specialized technical studies on the applications of energy efficiency improvement for the industrial sectors.
- Providing soft loans (up to 3 million EGP) dedicated for financing the best technologies available.
- Helping with the efforts exerted locally aiming to save energy and improve the efficiency of its utilization by making a preliminary and detailed survey for companies.
- Implementing training sessions for the energy auditors in accordance with the ISO 50001 certificate for energy management.
- Providing integrated solutions and support in choosing the best available technologies.
- Adjusting the thermal performance of the operating boilers and furnaces in order to improve the combustion efficiency.
- Implementing the programs of the "Energy Management System". Diagnosing the situation of the energy consumption in the facility and the sources of energy loss, and applying the policies aiming at more efficient energy utilization.
- Performing all the measurements required for implementing the energy saving technologies in cooperation with acknowledged standards authorities.
- Measuring and correct the power factor.



In the field of new and renewable energies

- Studying the utilization of solar energy systems in producing electricity, producing heat and steam, and in refrigeration purposes.
- Studying the utilization of photovoltaic systems in lighting and air conditioning.
- Studying the applications of producing energy from waste.
- Supporting the "Solar Systems" local manufacturers by establishing "The national network for the manufacturers of new and renewable energy systems" in order to implement an integrated system aimed at developing strategies, policies and operational mechanisms to support and develop the local manufacturing of new and renewable energy systems.
- Participating in the creation of a gathering for all inventors in the field of new and renewable energies; funded by the European Union.

Measuring the Carbon footprint

It is the amount of carbon dioxide emissions that result from the burning of fuel, different means of transportation and industrial activities. The office shall prepare the technical studies to measure the carbon footprint for organizations and products, and work on reducing it in order to increase the exportation opportunities.

Waffar Program

"Waffar Program" provides all green business services "GBS" in cooperation with "The private sector development Egyptian-German program". It aims at providing economical solutions for the private sector that affect the environment positively, enhance the competitive and innovation capacities, protect the investment and contribute in the sustainable development. It is a program aimed at reducing the consumption of raw materials, energy and water, improve the production efficiency, and achieve savings in the costs and sustainability in the markets.

SOME OF THE PROJECTS THAT HAVE BEEN IMPLEMENTED

Project	Cost in L.E.	Payback period	The economical and environmental return
Production of preformed dry fuel from rice straw and wood waste to be used as a source of alternative energy in the ovens of cement plants.	1,130,000	24 months	<ul style="list-style-type: none"> Reducing the black cloud phenomenon caused by open burning of rice straw and utilizing it in industrial processes. Reducing the carbon dioxide emissions
Providing the Silicate melting furnaces with other thermal respirator that may help in heating the combustion air.	525,000	34 months	<ul style="list-style-type: none"> Reducing the fuel consumption by about 96000 L.E. annually. Reducing the gaseous pollutants.
Replacing the burners of galvanization furnaces with regenerative burners	350,000	22 months	<ul style="list-style-type: none"> Achieving savings equivalent to 110,000 L.E. from the consumed energy. Improving specific energy consumption and reducing the pollutants.
Improving the power factor by installing capacitors.	150,000	18 months	<ul style="list-style-type: none"> Reducing the electricity bill as a result of being exempted from the penalty for low power factors by an amount of 100,000 L.E. annually. Reducing the losses in the electricity distribution network.