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.
A BETTER FUTURE

“Our electricity and gas monthly bills have been reduced by approximately 30%, even since we have adopted the energy efficiency applications implemented by the environment compliance office in our factory.”

Engineer: Hoda Kamal
Modern Co. for Modern Industries

In the field of new and renewable energies

- Studying the utilization of solar energy systems in producing electricity, producing heat and steam, and in irrigation 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 investors in the field of new and renewable energies, funded by the European Union.

Some of the projects that have been implemented

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost in L.E.</th>
<th>Payback period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production of performed dry fuel from sawdust and wood waste to be used as a source of alternative energy in the owns of cement plants</td>
<td>1,130,000</td>
<td>24 months</td>
</tr>
<tr>
<td>Providing the Silicate melting furnaces with other thermal resistor that may help in heating the combustion air</td>
<td>525,000</td>
<td>34 months</td>
</tr>
<tr>
<td>Reducing the burden of elimination furnaces with aggressive basins</td>
<td>350,000</td>
<td>22 months</td>
</tr>
<tr>
<td>Improving the power factor by installing capacitors</td>
<td>150,000</td>
<td>18 months</td>
</tr>
</tbody>
</table>

The economical and environmental return

- Reducing the black cloud phenomenon caused by emissions of soot and sulfur in industrial processes.
- Reducing the carbon dioxide emissions.
- Reducing the fuel consumption by about 9500 L.E. annually.
- Reducing the hazardous pollutants.
- Achieving savings equivalent to 110,000 L.E. from the consumed energy.
- Producing 70% of thermal energy and reducing the pollutants.
- 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.

Measuring the Carbon footprint

“Wattar Program” provides all green business owners “420” in cooperation with “The private sector development Egyptian-German program”, aims “to encourage the private sector to adopt initiatives that affect the environment positively, enhance the competitive and innovation capacities, protect the investment and contribute in the sustainable development, notably to proceed to the reduction of materials, energy and waste, increase the production efficiency and achieve savings in the costs and sustainably in the markets.”

Wattar Program

www.eco-tel.net

How can the environmental compliance office help?

- 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.

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 L.E.) dedicated for financing the best technologies available, relying on 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.