


جمعية الصناعيين اللبنانيين
ASSOCIATION OF LEBANESE INDUSTRIALISTS

Promoting Water & Energy Use Efficiency in the Lebanese Industry

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March 21, 2014



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I- ALI Overall Brief

ALI	Overall Representative of the Manufacturing Industry in Lebanon
NGO	Founded in 1943, groups Top Industrialists & Industrial Syndicates
Mission	Create & Maintain a favorable Environment for Industrial Investment, Growth & Development
Sustainable Development	Involved in Environment and Renewable Energy Related Issues since 1992



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II- The Green Production Help Desk (GHD)

- ✓ Is a **project partnership** between **ALI and ESCWA**
- ✓ Help Desk established at **ALI premises**
- ✓ **Provides information and technical advice** to Lebanese Industries that want to develop their products/production to fit with the principles of **sustainable development**, and enable them to **engage in the emerging green economy**








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II- The Green Production Help Desk (GHD)

*“Strengthening Capacities in Lebanon on **Greening** the Industrial Sector”*

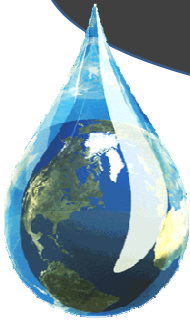

- Information Sharing
- Training
- Networking






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III- Environmental Influence from the Lebanese Industry

Consumption of Resources is essential to the production of goods:
 CONSUMPTION OF WATER, ENERGY & RAW MATERIAL
 give rise to
ENVIRONMENTAL RESOURCES DEPLETION


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IV- Facts of Water & Energy in the Lebanese Industry

3 Main Environmental Issues are perceived from Industrial activities:

- 1. Energy Consumption**
- 2. Water Consumption**
- 3. Wastewater Generation**

IV- Facts of Water & Energy in the Lebanese Industry

ENERGY:

- High Electricity Cost
- Increasing Prices of Oil
- ❖ **Energy Cost is HIGHEST in the Region**

WATER:

- **Wastewater generated** untreated is disposed into the environment
- **Water** is somehow used irresponsibly

Resulting in a heavy burden on the industrial sector, leading to an unfair competition.

IV- Facts of Water & Energy in the Lebanese Industry


What can be / is being done in many industries:

ENERGY CONSUMPTION:



- ✓ Create **power generation plant**, employing new generators and more effective burning systems.
- ✓ Organize the **hours of the heating, ventilation, and air conditioning (HVAC) system** in order to save energy.
 - **Enhanced the lighting system** of the establishment; remap light bulbs and change for energy efficiency.
- ✓ Improve **power generators** by setting heat exchangers on the exhausts of the generators to reduce the consumption of energy and increase efficiency.




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IV- Facts of Water & Energy in the Lebanese Industry




What can be / is being done in many industries:


WASTEWATER:

- ✓ Establish an **onsite wastewater treatment plant** and **reuse the treated water in the process system** again, either for cooling or in the production process when possible.


WATER CONSUMPTION:

- ✓ Put **water meters** to detect leakages as well as **water saving devices**.
- ✓ Change the **design of water usage or landscape** of the establishment to consume water more efficiently.


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V- Recommendations



Create **green industrial cities** equipped with a developed infrastructure, including sewage systems, water treatment plants, renewable energy generation sites, etc.

Lebanese Government should:

- allow industries to generate their own energy for their use and sell the excess to the public grid
- support energy-intensive industries financially

Promotion among industries of **wastewater treatment and its reuse** within the production process

Lebanese Government should **encourage and adopt renewable energy generation**


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شعب مميز، صناعة مميزة

اشترى
لبناني

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THANK YOU FOR YOUR ATTENTION !