



Green Business Opportunities in Egypt

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The Environmental Market in Egypt



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Public Policy

Ministry of State Environmental Affairs Goals:

- incorporating the environmental dimension within development policy, national plans, programs, projects, and public practices
- controlling and reducing pollution sources
- promoting environmental awareness for all categories of society.



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The Ministry's priorities are:

- **confronting the problem of solid waste**
- **planting non edible trees irrigated with treated wastewater through the national program for recycling wastewater**
- **intensifying efforts to clean the air through decreasing car emissions**
- **sustaining the concepts of eco-lodge and sustainable tourism.**

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❖ Environmental Sectors

□ Water and Wastewater Sector

- Investments for water/wastewater activities during Egypt's five-year plan (2003-2008) have been escalating for both the cost of equipment and contracting costs
- developing private sector which also has immediate requirements in the water/wastewater arena, both, for existing businesses and for the new industry that is steadily growing
- The Nile is being polluted by discharges of untreated or partially treated domestic wastewater, industrial effluents, and agricultural drainage water



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❖ Environmental Sectors

❑ Solid Waste Management Sector

Municipal Solid Waste

solid waste generated from urban and rural Egypt in 2006 was about 18 million ton

Industrial Hazardous Waste

6.2 million ton annually of which 100-150 thousand tons are considered hazardous

Hospital Waste

125,000 tone per day (1.6 kilogram per bed), of which 25,000 is considered hazardous. Incineration is the most acceptable solution for hospital waste

Agricultural Waste:

annual volume of about 23.4million ton, about 3.5 million ton are burned in open air or disposed of into sides of canals, biggest concern the waste of rice farming



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❖ Environmental Sectors

□ Air Quality Sector

Air pollution comes mainly from:

- 18 cement factories in Cairo, Kattamia, Alexandria, and Assiut
- from several thermal power plants in Cairo and the major cities
- gases generated from internal combustion engines
- industries discharging effluents at locations along the Nile
- disposal of hazardous waste
- burning of solid waste, which includes rubber and plastics



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❖ Market Competition

Best Sales Prospects include:

1- WASTEWATER TREATMENT

Water and sludge treatment projects
Industrial wastewater treatment technology
Filtration/recovery and separation equipment
Controls/valves and pumps
Water treatment chemicals
Desalination technology
Recycling plants
Sanitary projects
Water and sludge treatment projects, composting projects
Municipal water and wastewater management.



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❖ Market Competition

Best Sales Prospects include (cont.):

2- SOLID WASTE MANAGEMENT

Solid waste management equipment
Incinerators Industrial filters
Equipment for recycling plants
Composting projects

3- AIR POLLUTION EQUIPMENT

Kits for converting motor vehicles to the use of natural gas
Filters to reduce cement particle emissions from cement factory smokestacks



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❖ Green Business Prospects - Overview

- The market for environmental technologies and services is growing at a current rate of 10% per year.
- Egyptian businesses seek innovative solutions for a more efficient use of raw materials and resources.
- Enterprises are keen on adapting environmentally friendly production methods to comply with the demands of the exports markets.



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❖ Green Business Prospects – In Depth

1- Renewable Energy (RE):

- 14% of national energy consumption in Egypt from Renewable Energies by 2020 with the long term to have a share of up to 40% by 2050. The current share today of RE represents only 1% (excluding hydro energy)
- Studies by the German Center for Aerospace showed that Europe could obtain 40% of its energy from solar and wind power installed in the MENA region, so renewable energy might become a major export commodity for Egypt and the Region.
- Wind and solar power generation are receiving the political support (Government will shortly present to parliament laws that give ideal market conditions for RE)



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❖ Green Business Prospects – In Depth (cont.)

2- Water and Wastewater:

- Cost of water production and distribution, for both irrigation and domestic and industrial use has been escalating over the past years.
- Water delivery is no longer considered a free service but cost recovery enterprise that will be dealt with in a PPP manner.
- A 10 Billion Euros has been already allocated for a wastewater plan covering deprived villages and existing cities (new tenders for wastewater collection and wastewater treatment in the Greater Cairo area will amount to 1 Billion Euro in 2007).

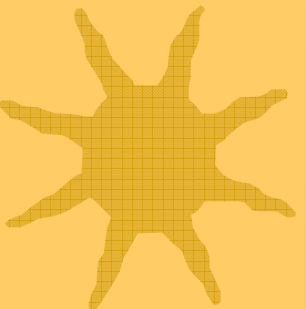
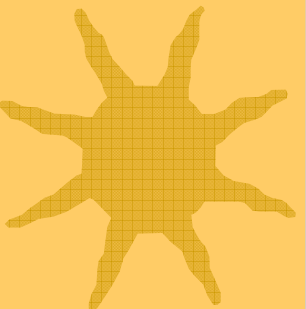
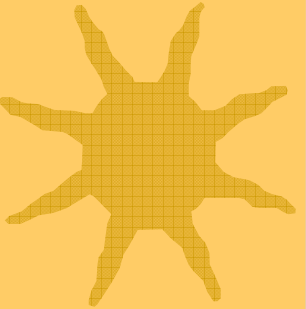


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❖ Green Business Prospects – Summary

- Egypt is carrying out an extensive reform aimed at opening the economy for foreign investments.
- Consulting opportunities in the environmental sector are needed but highly competitive. Local firms will develop their capacities to offer services through a comprehensive teaming with European counterparts.
- Solid waste management, Environmental monitoring equipment and CNG vehicles offers a major market.
- Practices to date show that Joint ventures between Egyptian and European enterprises in wind and solar energies are well functioning.



Merci Beaucoup

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