



Climate Protection Engagement in the Arab World

CARBON FOR DEVELOPMENT

Opportunities in New Regions and Emerging Environmental Markets

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Climate issues in the Arab world

- Fluctuating and inconsistent precipitation
- Lower yields on major food crops
- Long-term salinization of inland aquifer systems
- Accelerated desertification of marginal areas
- More intensive flash floods
- Increased duration and intensity of droughts
- Accelerated saltwater intrusion and sea-level rise



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Impact of climate change in the Arab world

- A rise in sea-levels by one meter would mean:
 - 2% of Qatar's land will be submerged underwater
 - 5% of UAE's population would be affected due to increased coastal activity
 - 10% of Egypt's population will be affected
- By 2050 all MENA countries are expected to be in a state of water scarcity, with the exceptions of Iraq, Iran, Lebanon, and Syria where there is some possibility that precipitation may increase.
- Agricultural productivity may decrease 80% by 2080.

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Impact of climate change in the Arab world

- Given that many MENA countries already import more than 50% of their food, further contraction of domestic food production may have severe consequences in a region with a rapidly growing population that is expected to double to more than 650 million by 2050.
- Climate Risk Index of 2011 shows impact of climate change in Middle East

Ranking CRI	Country	CRI score	Death toll	Deaths per 100,000 inhabitants	Absolute losses in million US\$ PPP	Losses per unit GDP in %	Number of events	Human Development Index
49	Saudi Arabia	49.67	11	0.44	345.56	0.05	2	56
65	Oman	59.50	14	0.45	0.70	0.00	2	89
86	Kuwait	73.50	4	0.11	0.05	0.00	1	63
112	Lebanon	86.83	0	0.00	2.27	0.00	6	71

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Climate scenario in the Arab world

- There is enough evidence to believe that the Arab region is particularly vulnerable to the impacts of climate change.
- The water sector is not only the most vulnerable regional sector to climate change but also one which can yield immense benefits.
- Improved agriculture can significantly reduce the footprint since it consumes 70-90% of total water withdrawals across the region.



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Climate scenario in the Arab world

- Governments are beginning to understand the long-term importance of investing in low-carbon transportation, coastal protection, and energy generation and supply systems.
- In addition to agricultural, environment and water sectors tourism is also regarded as one of the most sensitive sectors to climate change
- There is growing work towards education and public participation to address climate change.



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مجموعة عمل الإمارات للبيئة
• تخفيض •
• إعادة استعمال • إعادة تصنيع



• REDUCE • REUSE
• RECYCLE
EMIRATES ENVIRONMENTAL GROUP

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EEG's outreach and coverage

In 2012, EEG has engaged with more than 520 schools and universities, 100 private companies and government departments, and 1000 individuals in various programs & events.

EEG's certifications, accreditations, etc. include:

- ISO 14001 certified – first in the region
- Accredited status to the UNCCD and UNEP
- Signatory of the UNGC and a focal point of the UNGC in the GCC states
- Member of the International Union of Conservation for Nature (IUCN)
- Member of the myclimate Patronage Committee



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EEG's major programs

1. Environmental Education Programs
2. Waste Management and Recycling Programs
3. Publications
4. Outreach Programs
5. Special Projects



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EEG's educational programs

1. Environmental Drawing Competition
(81 schools, 24,300 students)
1. Teachers' Workshop - *(48 organizations, 480 trainees)*
2. Inter School Environmental Public Speaking Competition - *(64 schools, 22,400 students)*
3. Students' Workshop - *(109 schools, 43,600 students)*
4. Inter College Environmental Public Speaking Competition - *(56 colleges, 11,200 students)*
5. Campus Outreach Programs *(10,000 students and teachers)*



TEACHER'S
WORKSHOP



STUDENTS'
Workshop®



INTER SCHOOL
ENVIRONMENTAL PUBLIC SPEAKING COMPETITION



INTER COLLEGE
ENVIRONMENTAL PUBLIC SPEAKING COMPETITION

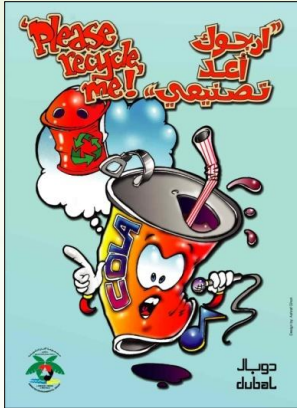


Environmental Drawing
Competition

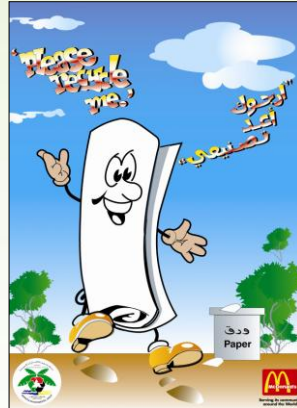
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EEG's recycling campaigns



Aluminum



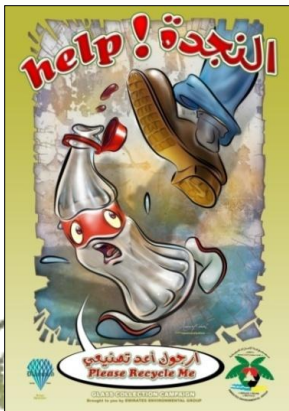
Paper



Toners



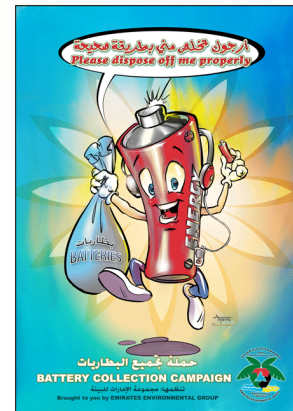
Plastic



Glass



TetraPak



Batteries



Mobile Phones

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EEG's recycling campaigns

This has resulted in

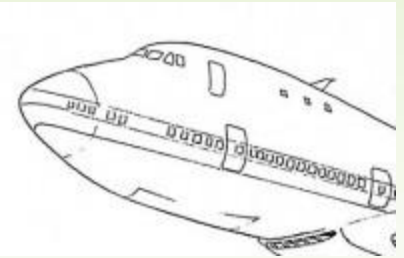
- 173,443 kg of aluminum cans since 1997
- 9,657,039 kg of waste paper since 2001
- 52,948 toners since 2001
- 511,544 kg of plastic waste since inception
- More than 1,236,433 kg of glass bottles since inception
- 13,655 kg of Tetra Pak Cartons until end of April 2012
- 225,390 pieces of batteries since May 2006
- 5,374 pieces of mobile phones since 2009

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EEG's recycling campaigns

- Altogether, the waste material that EEG has been able to recycle over the years is equivalent to the weight of more than **26 fully loaded Boeing 747's!**
- Recycling of cans, paper, plastic and glass alone have been able to save landfill volume of more than **16 Olympic-size swimming pools!**
- This is equivalent to reducing 33,909 metric tons CO₂ equivalent to emissions from a medium-sized car travelling around the **Earth 4,275 times!**



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EEG's publications

EEG's major publications include:

- Waste Paper magazine (Biannual)
- e-Newsletter (Monthly)
- Annual Report
- Posters, brochures, flyers, etc.
- Table calendars



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EEG's outreach programs

- Community Lectures (monthly)
- Exhibitions
- Seminars

COMMUNITY
LECTURE



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EEG's special projects



One Root, One Communi-Tree



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Cases of climate protection in the Arab world

- **Al Faraa** - Invested heavily in the continued research & development of low emission concrete products.
- **Barclay's Egypt** - Including financing and risk management solutions to enable capital to flow to lower carbon opportunities.
- **Blossom Nursery** - Certified as carbon neutral by myclimate, a Swiss-based initiative for carbon offsetting; carbon emissions audits through Farnek Avireal.



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Cases of climate protection in the Arab world

- **Boeing** – Their environmental report follows Carbon Disclosure Project (CDP) reporting standards.
- **DEWA** – Investing in technology to reduce CO₂ & NO_x emissions.
- **McDonald's UAE** – Using vegetable oil collected from McDonald's outlets in the UAE and converting into 100% biodiesel to fuel its logistics fleet.



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Improving climate protection engagement in the Arab region

- Need for segmented engagements strategies
- Need for meaningful multilateral frameworks
- Local knowledge and modern technologies
- Expanding populations and widespread subsidies
- Energy efficiency and renewable energy
- New urban planning legislations to encourage private participation
- Encouragement for financial flows

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Questions

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