WASTE MANAGEMENT IN THE GCC

The majority of GCC countries are ranked in the top ten worldwide in terms of waste production per capita. Approximately 120 million tons of waste is currently produced in the GCC countries. 55% of this waste is estimated to be construction and demolition waste, 20% municipal waste, 18% industrial waste, and 7% hazardous waste.

The UAE and Saudi Arabia produce the most waste and Dubai’s GDP growth, population growth, industrial diversification and construction activities will generate an increased demand for waste management services, as well as a diversification in waste types.

However, GCC countries are now responding to their responsibilities and the growing requirement of waste management and below are some impressive facts and figures.
FACTS AND FIGURES ON WASTE MANAGEMENT IN GCC COUNTRIES

$ 76 Million by Al Ain Municipality to operate a waste management facility.
- Al Ain municipality has signed a contract worth 279 millions DHS with Sharja based Austrian joint venture Emirates Environmental Technology Company (EET) to operate a waste management facility. The facility comprises a sorting plant able to handle 1200 tons of waste per day.

The City’s only waste dump may be 18 months away from overflowing.
- A second site is planned and a private company is to collect and recycle waste with in the UAE
- A factory big enough to recycle 2.4 million plastic bottles a day is being built at Abu Dhabi Industrial City. The new recycling facility is one of only 3 in the world that produces plastic of high quality to be used for food and drink containers

$20 billion dollars allocated to Waste To Energy - Dubai, UAE
- $20 billion dollars will be allocated to Waste To Energy projects by Dubai municipality in different locations in the emirate.

$1.7 billion and $3.9 billion solid waste management contracts - Qatar
- The two contracts are for the Engineering, Procurement and Construction (EPC) of an integrated solid waste management facility in Qatar.
- The Operation and Maintenance of this facility for 20 years.

$ 345.7 million contract for solid wastes project - Abu Dhabi UAE
- Abu Dhabi Municipality have awarded a recycling project for home solid wastes for the Emirate of Abu Dhabi valued at AED 1.27 billion.
$136 million privatisation of municipal solid waste treatment - Abu Dhabi UAE

- As part of its ongoing strategy to step up privatisation of infrastructure services, the Government of Abu Dhabi announced plans to invite proposals by private investors for the operation and management of municipal solid waste treatment and disposal in the Emirate.
- The project's total value is estimated at approximately AED 500 million over 10 years.

$200 million Waste Management budget - The Kingdom of Saudi Arabia

- A $200 million budget for a waste management project has been allocated by The Kingdom of Saudi Arabia.

$150 million Waste Recycling Park - Dubai, UAE

- The first fully integrated waste management and recycling park in the Middle East
- Developed on a site measuring 1,500,000 square feet.
- National Project Holding Co. believes Dubai Recycling Park will be their most important project from a socially responsible standpoint and that it should be replicated across the region.

$17.7 million construction waste Recycling Plant - UAE

- The Emirates Recycling Plant will be built at a cost of over AED 65 million and located in the Al Lusail area.
- It will have the capacity to convert more than eight million tons of construction waste material generated in Dubai annually into usable road and construction base aggregate.
- This will be the first facility of its kind in the entire Middle East.

$124 million solid waste project - Kuwait

- Generated solid waste is expected to rise to 1,324,000 tonnes in 2010, 1,472,000 tonnes in 2015 and 1,661,000 tonnes in 2020.
- Landfill areas are expected to rise to 189,000, 225,000 and 282,000 square meters respectively.
- This is a very large area for a small country where about 70% of the land is allocated for the Kuwaiti Oil Company and the remaining 30% is left for other development purposes.
- The cost of Solid Waste Management in Kuwait is expected to rise to KD 27 million in 2010, KD 29 million in 2015 and KD 33 million in 2020.

$5 million treatment and recycling plants – The Kingdom of Saudi Arabia
- Riyadh will soon have a SR 19 million new plant for the treatment and recycling of waste oil.
- Also on the drawing board are two new plants in Rabigh: for hazardous industrial waste recovery and for industrial and domestic wastewater treatment.
- A Dammam based tire recycling plant is poised for a major expansion and diversification.
- Saudi Aramco also plans new projects in this area.

$10 Million Waste treatment Facility - Al Aweer, UAE

- The Dubai Municipality and Al Serkal Group have announced the launch of a AED 10 million waste treatment facility in Al Aweer.
- Dedicated to recycling edible oil waste from hotels, restaurants and food processing factories. The plant will start functioning early next month.

$15 million minimization of waste project - Dubai, UAE

- The minimization of waste shall be completed in two phases to include both municipal and industrial waste
- The estimated budget to be allocated for the mentioned project is around $ 15 million.

MASDAR - Abu Dhabi UAE

- A pioneering project to build a zero-carbon and zero-waste city.
- The city will produce no carbon dioxide and will recycle its waste to create energy.
- This new energy and technology carbon-neutral Community will open in 2009, covering six square kilometres.

Intelligent waste processing - Dubai, UAE

- Dubai Municipality is to implement a new method of collecting and storing waste in three different locations.
- A waste container is placed underground from where it can be lifted up for emptying.
- A cool storage underground prevents odour and spillage.

Landfill to be developed into a world-class recycling plant - Sharjah, UAE

- Al Saja'ah is one of the world's largest waste management sites, with a capacity of 25 million cubic metres.
- Al Saja'ah will face the challenge of processing the sheer volume of waste delivered every day: 3,000 tonnes from municipal solid waste (generated
from household sources); 16,000 tonnes from construction and demolition waste and 1,000 tonnes of industrial waste from firms in the emirate.
- The volume of waste arriving at the site from the emirate grows by around 14 per cent every year.
- The Al Saja'ah site will be supervised by The Sharjah Environment Company, a joint venture company between the Government of Sharjah and the private sector.

**Paper Recycling project at Sharjah Airport - Sharjah, UAE**

- Sharjah International Airport has launched a paper recycling project and special collection boxes have been set up in all its offices.

**More recycling units to be set up - Sharjah and UAE**

- People living in Sharjah and Abu Dhabi will soon be able to join in efforts to help recycle the huge number of drinks cans and plastic bottles which are presently being dumped in landfills.

**"Ecocycling" - Dubai, UAE**

- Dubai has been targeted as an ideal strategic location for "Ecocycling"
- A revolutionary new concept developed by scientist Franz Philip, the process involves turning Waste, both household and toxic, into a raw material that forms the basis of a new product that can be used in the construction or oil industry.

**Recycling mobile phones – Dubai**

- EnviroFone launched a campaign to protect the environment from contaminated and harmful toxins found in mobile phones and accessories, under the patronage of the

**Telecommunications Regulatory Authority (TRA).**

- Drop boxes across the country have filled up rapidly with an annual target set at collecting and recycling 250,000 phones.