



DJERBA HOUMT SOUK (TUNISIE)

MUNICIPAL SOLID WASTE & RESOURCE MANAGEMENT



SUMMARISING GRAPHS	KEY BENCHMARK FIGURES	DJERBA HOUMT SOUK	TUNISIA
	DEMOGRAPHY, HABITAT, TOURISM... <ul style="list-style-type: none"> Number of inhabitants Number of habitat Single family houses (%) Multi-family houses (%) Total surface in km2 Number of inhabitants per km2 Human Development Index (HDI) Temperature and precipitation Number of tourist per year 	68.165 21.170 98% 2% 176 387 0.7 22°C/ 255mm 206.000	10.320.000 2.800.000 - - 164.150 65 0.683 18.5°C/ 468ml 7.000.000
<p>Waste composition</p> <p>Biowaste 52% Plastics 16% Paper & cardboard 13% Other 14% Metals 3% Glass 2%</p> <p>Key collection, treatment & cost data - Djerba Houmt Souk</p> <p>Collection coverage: 98% Recycling informal: 5% Recycling formal: 0,1% Composting/agriculture value chain: - Sanitary landfill: 80% Small dump sites city: - Cost recovery: -</p>	WASTE DATA <p>Generation</p> <ul style="list-style-type: none"> Mun. Sol. Waste (MSW) generation Hous. Sol. Waste (HSW) generation Ratio Municipal/Household waste Per inhabitant MSW generation Per inhabitant HSW generation <p>Collection</p> <ul style="list-style-type: none"> MSW collection coverage (%) MSW door-to-door coll. coverage (%) MSW proximity coll. cov (street bins) (%) MSW container park collection cov.(%) MSW collection equipment MSW collection frequency <p>Final destination</p> <ul style="list-style-type: none"> MSW final destination <ul style="list-style-type: none"> Composted/ agric. value chain Recycled (formal) Recycled (informal) Sanitary Landfill Small dump sites city <p>Other waste</p> <ul style="list-style-type: none"> Constr. & demol. waste generation Medical waste generation (MSW) Green waste generated Waste generated by tourists 	<i>2010 data</i> 19.376 tons/y - - 284 kg/inh/y - 98% - - - 240l/ 770l bins 7/7 (14/7 summer) - - - - - 20000 tons/y 70 tons/y 3000m3/y 1.8 kg/tourist/d	<i>2007 data</i> 2.250.000 tons/y 1.768.000 tons/y 100/78 218 kg/inh/y 171 kg/inh/y 65.8% - - - - - - - - 2.000.000 tons/y 18.000 tons/y - -

WASTE MANAGEMENT PRACTICES IN DJERBA





DESCRIPTION SOLID WASTE & RESOURCE MANAGEMENT STRATEGY

LEGAL FRAMEWORK

Tunisia has a set of laws and decrees related to waste management issued by various ministries.

INSTITUTIONAL FRAMEWORK/ POLICY AND PLANNING

The particularity in Tunisia as compared to other countries in the region is the establishment of a waste agency in 2005 called 'L'Agence Nationale des Déchets Solides (ANGED)'. ANGED initiates studies and works related to waste management, organizes the treatment schemes, provides training, makes the plans and strategy and mobilizes funds. Tunisia has also chosen to adopt producer responsibility schemes, ECO-Lef (packaging) being the most well known one. Djerba Houmt Souk municipality has created the department of property and environment subdivided in 2 sub departments: property, and environment. The department employs 105 staff.

FINANCE & COST RECOVERY ARRANGEMENTS

SWM FINANCING

The investment costs for the sanitary landfill, transfer stations and equipment are estimated at 5.5 million Tunisian Dinar (TD) (+/- 2.75 million Euro) and financed by divers sources including the municipality, ANGED, FPZT,... 20% of the operational costs for the transfer stations and sanitary landfill are covered by the municipality, the remaining 80% by the central government. The part of the central government is digressive until the Municipality is able to carry all operational costs.

SWM COSTS

The full municipal budget amounts to 4.912.000TD (2.500.000 Euro). 22% or 1.077.000TD (504.000 Euro) of this budget is used for the collection of waste by the municipality. The collection cost up to the transfer station is estimated at 819.000 TD or 42 TD/ ton being respectively +/- 410.000 Euro or 21 Euro/ton. The cost from transport from transfer station to landfill by the private contractor including landfill gate fee amounts to 258.000TD (129.000Euro) or 12.9TD/ton (6,5 Euro/ton).

COST RECOVERY MECHANISM

Tunisian citizens are subject to a tax, calculated according to the living area and level of service provided

by the municipality for sanitation, maintenance of sidewalks, street lighting.

Commercial entities however have to pay a fee to the Municipality. The sales of recyclables contribute to the recovery of costs: plastics are sold at 150 Euro/ton, glass at 30 Euro/ton, Cardboard at 60 Euro/ton, Aluminum cans at 500 Euro/ton.

PRIVATE SECTOR INVOLVEMENT

COLLECTION

The collection is implemented by the municipality

TREATMENT

Djerba Houmt Souk governorate has a state-of-the-art sanitary landfill at Guellala (20 km away from Djerba Houmt Souk) ran by a private company SEGOR and a transfer station managed by the same company at Erriadh location (5 km away from Djerba Houmt Souk). The sorted and compacted products are then sent for export via recyclers.

Djerba Houmt Souk has entered in an agreement with the 'Département de l'Hérault (France)' in order to develop a composting plant for hotel biowaste. The waste characterization study for hotels showed that organic waste amounts to 75% of the waste produced.

INFORMATION, COMMUNICATION AND AWARENESS RAISING

Djerba Houmt uses direct modes of communication with its citizens. It organizes participatory meetings and other kind of public relation activities: invitations, public-private partnerships, press relations with journalists as well as the use of small media displays such as posters, banners, flyers.

BEST PRACTICES IN DJERBA HOUMT SOUK

1. Hotel waste management pilot project (GODEM)
2. Waste characterization studies
3. Public/ private partnership
4. Composting of garden waste

SOURCES

UN Habitat, MEDSTAT, EEA, Eurostat, Diagnostic review Djerba, Municipality of Djerba Houmt Souk

MORE INFORMATION

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