H2020 Review and Monitoring (RM) workshop on Assessment 10th meeting of the Horizon 2020 Review and Monitoring (RM) Group 23-24 September 2019 in Athens, Greece

Country Presentation Libya

Water Resources

- Total Water Consumed 5.6 :Billion m³ / Year
- Surface water 60 Million /m³/Year (1%)
- Ground water 97 %
- Desalination and Treated water 1.5 %

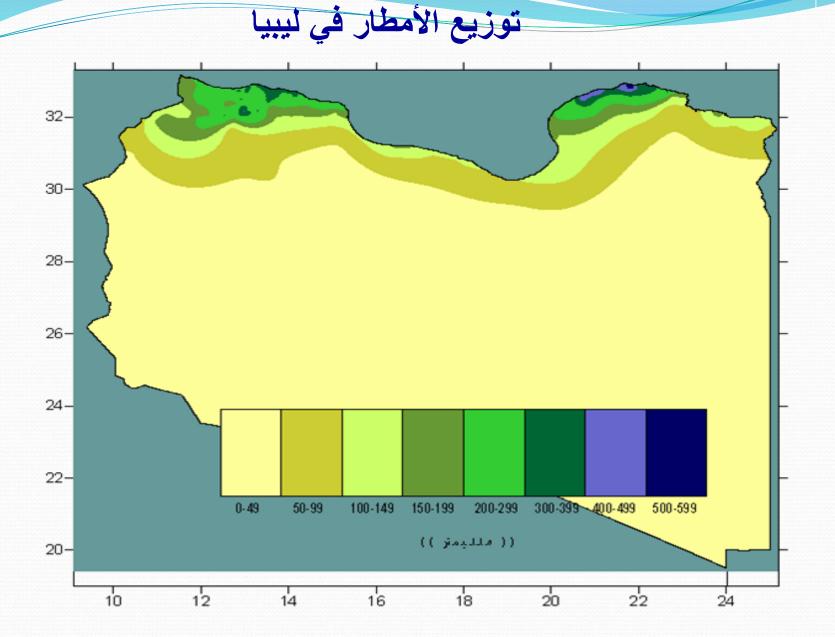


Water Resources

Water supply and sanitation in Libya is characterized by challenges and achievements.

Libya does not share any surface water with other neighboring countries, but most of its groundwater is shared. Libya as one the Northern African countries, that suffers from the sacristy of water. Only 5% of the country area is located above the geographical line for rainfall.

Practically all of Libya's fresh water (97%) is groundwater, mostly from the Great Man-Made River (GMR)(75%). Surface water accounts for 2.3%, while recycled sewage effluent provides 0.9%. Water from desalination is about 0.7% (according to data of 2005) data)-

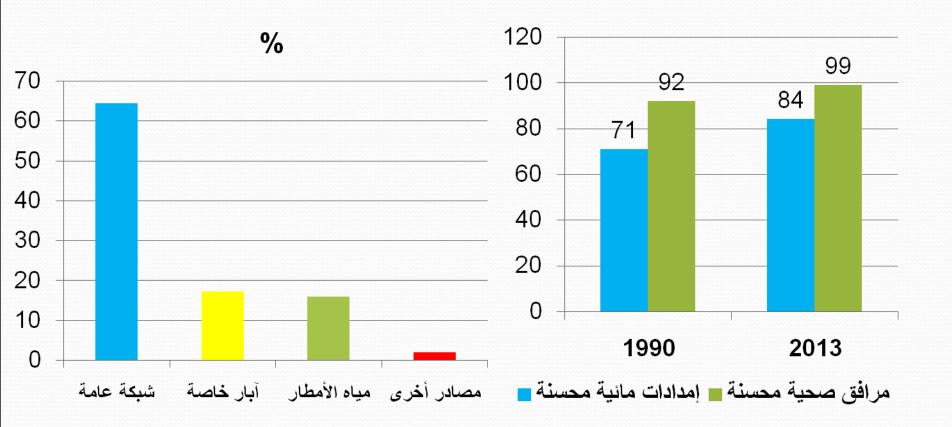




Sources of consumption

- Just above 80% of the population Lives in the cities and used the public water networks
- In the countryside and villages peoples uses Wells, springs, by collecting and storing of rain water during winter time and by buying water tanker
- The domestic use represent 12% of the Total water used
- The average Water consumption levels by use per/capita
 450 L/Ca/ day

Trend in the % of Water Supply



Trend in water Demand and the contribution of Desalination

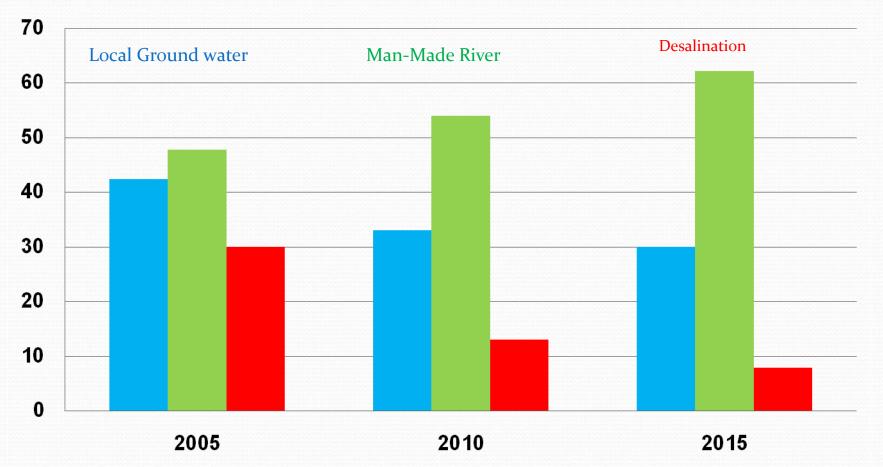
Trend in Desalination

Domestic Water Demand

%



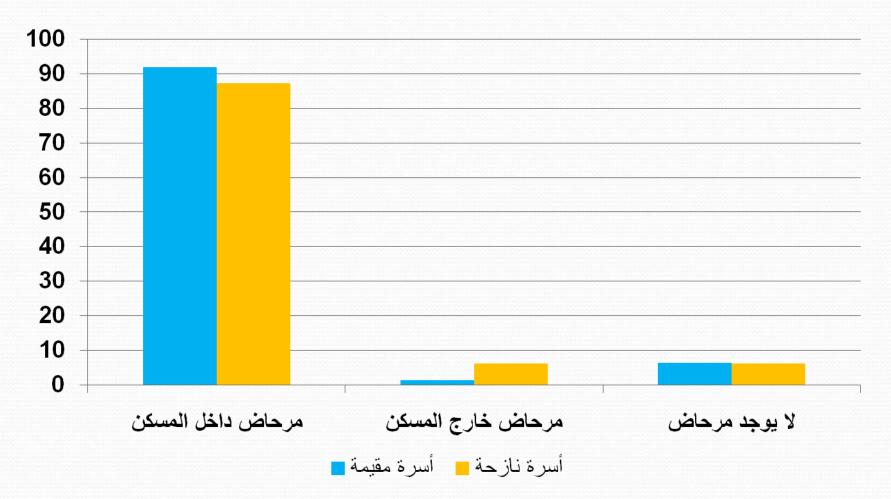
Trend in the Water supply by the different Sources (%)



Sanitation

In 2015, the percentage of the population who use sanitation facilities is about 97 % Access to appropriate sewage network is more largely spread with 95% of the population having it in 2007^[2]. According to the 2007 Pan Arab population and family health project, only 63% of households in Libya are connected to a public sewage system and disposal network, while about 40% of the population are using septic tanks and cess pool.

الصرف الصحي (%) 2016



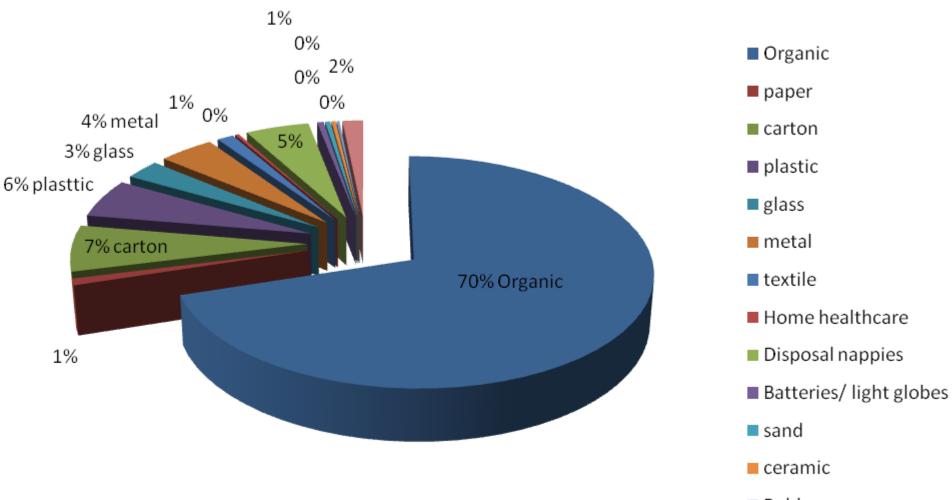


West Region **396,200 m³ /day** East Region 161,000 m³ /day Southern Region **34,000 m³ /day**

The quantity in (tons) and % contribution of each Municipality

The Name of the Area (Municipality)	Wt in tons/day	%
Abu silm	480	%19.2
Tripoli	844	%33.76
Ain Zara	540	%21.6
Tajora	141	%5.64
Hay	333	%13.32
The Surrounding	162	%6.48
Total	2500	%100

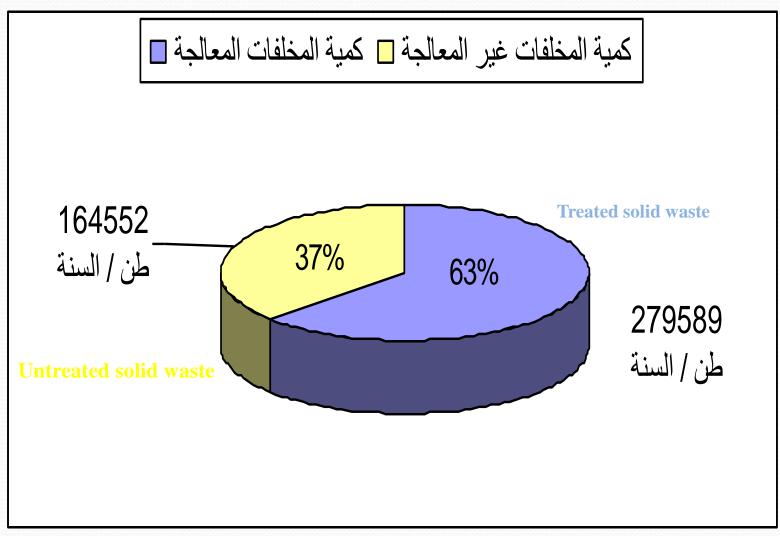
Solid Waste Charateristics, TRIPOLI Region April 2009



- Rubber
- Other residue

Treated solid waste Quantity of Treated and untreated solid

waste



Industrial Discharge (pollution Load)

 Several studies were carried out in order to calculate the pollution Load from the Major Industrial facilities along the Libyan coastline



Table (12) Shows the Flow, the concentrations (mg/l) and Load of BOD, COD Total suspended Solid (TSS), Total Nitrogen (TN), Total phosphorus (TP) of the wastewater that enters the Lake.

Yearly	Daily	Concentration	Mean Flow m ³	Paramet
Load	Load	(g/m³)	/day	rs
ton	ton			
2971.47	8.141	195	41765	BOD
545675	14.95	358	41765	COD
1752	4.80	115	41765	TSS
65.7	0.18	4.40	41765	TN
25.55	0.07	1.73	41765	ТР



Thank You for Your Attention