

Day1

Title : Site visit: Transfer station of the city of SALE; Waste landfilling and valorisation center of Oum Azza- RABAT.

Summary

First, the participants visited the Transfer Station for the community of Sale, which is located on the way, about 30 minutes, to the Landfill and Recycling Center of Oum Azza. The system of the station is composed of a weighbridge, a waste unloading area and a waste transfer conveyer. Then, the waste is loaded on a large truck, a tractor - trailer. The system is simple, does not employ mechanical equipment for compaction.

Then, we moved to the Landfilling and Recycling Center of Oum Azza. The site is operated by a private company, PIZZORNO, under a contract for 20 years, and receives 2,000 ton per day of waste every day. The landfill is an engineered sanitary landfill which have adequate facilities such as bottom liner, leachate collection pipes, leachate treatment plant, biogas removal pipes, biogas treatment plant (biogas flare plant), etc. As for the operation, once waste is placed on the landfill. It is compacted and covered with soil.

Most of waste coming into the site goes to the landfill directory, but small portion is put into the recycling process. Once waste is unloaded, it is fed into a trammel (screen) followed by a manual sorting section where plastic, papers and metals are picked up. Residue coming from the trammel goes to the landfill and residue from the manual sorting is conveyed to another treatment facility operated by another private company, Geocycle.

In the facility of Geocycle, a pile, 4m high x 4m wide x 25m long, is made by the residue from the sorting facility. The residue consists of mainly plastics and papers, but it has about 30% of organic matter. The pile is dried by air coming from the floor. Moisture of the residue at the beginning is approximately 50% and it decreased to 25% after 15 days. The dried up products is so-called, refuse-derived fuel (RDF) or solid recovered fuel (SRF). The product has a heat value of 3,500 kcal/kg and fed into a cement kiln approximately 100 km away from the facility.