

Water Supply: Following actions were implemented under water supply sector:

1. Water Audit done
2. Leak detection programme
3. Energy Audit of water supply sector
4. Old pumps were replaced with new more energy efficient pumps in all the WTPs
5. 24*7 pilot project successfully completed in one Zone. Based on the pilot scale study the scheme will now be implemented for the entire Nagpur city as "Rehabilitation Scheme for 24*7 water Supply for Nagpur City" with total project cost of Rs. 300 crores by Private operator.
6. Strengthening of water distribution network: By (this initiative has resulted in water pressure improvement and revenue generation):
 - Laying of new pipelines in new area
 - replacing old pipeline in old areas
7. Replacement of canals by pipeline for transportation of raw water to WYP (90% work has been completed). Because of this [project 30% of the fresh (raw) water is being saved thus reducing stress on natural water bodies. Also, Rs. 10 crores/ annum saved against raw water transportation
8. Replacement of service connection and fixing meter (this initiative will reduce physical loss of water from 60 to 30% i.e. 50% reduction in water loss)
9. Recycle and reuse of sewage water (130 MLD of sewage will be treated to the tertiary level and supplied to state power generation company (MAHAGENCO). The capital investment will be borne by MAHAGENCO and NMC shall get Rs. 15 crores/annum against the selling of treated sewage water.

10. Energy generation through use of BIO-ENZYMES (The present existing 100 MLD of STP at Bhandewadi. The treatment technology for STP is based on Activated Sludge Process. NMC has started using bio-enzyme which will release oxygen in the process thereby reducing the time for aeration (indirect saving of energy). With this initiative NMC is saving Rs. 2-3 lakhs/month. This is successfully in operation from last 1 1/2 years.

Solid Waste:

1. Approx 810 metric tones solid waste processed daily
2. 50% wet organic waste converted to manure and
3. 50% dry waste converted to RDF.

Awareness programmes:

1. Nag River cleaning drive through public participation -2013
2. Akshay Urja Diwas (20th august) celebration
3. tree plantation drive-2012(85% of 1.6 lakh saplings planted during monsoon season in 2012 had survived (http://articles.timesofindia.indiatimes.com/2013-06-29/nagpur/40271326_1_nit-unauthorized-layouts-nagpur-improvement-trust and http://articles.timesofindia.indiatimes.com/2012-07-11/flora-fauna/32631936_1_tree-guards-lakh-saplings-crore-trees)
4. Establishment of Renewable Energy & Energy Efficiency resource Center (REEERC) for promotion of renewable energy & energy efficiency

Energy efficiency:

1. More energy efficient T4 lights installed in main building of NMC

2. energy efficient fans replacement(50W) with older fans which consumes more energy
3. 132 Traffic signal junctions in the city have been converted to LED's and solar backup is in pilot phase
4. LED street lights and Solar street lights being implemented in pilot basis