

Consulting Services

... ecological solutions for sustainable water and wastewater management...



**Water and Energy Audits
Tailor-Made Ecological Solutions
Project Design and Execution
Monitoring and Maintenance**

Our Services



Consulting

Together with the interested party, ESF experts evaluate the current water and energy management practices and propose sustainable plans aiming at reduction of water use, wastewater production and costs.

- * Water and energy audits
- * Detailed surveys and feasibility studies
- * Improved water management plans and designs
- * Tailor-made sanitation solutions
- * Eco-housing and green development



Project Execution

ESF offers professional engineering design and supervision during implementation of projects. ESF engineers ensure the correct construction of the improved water and sanitation solutions.

- * Construction and RCC drawings
- * BoQ preparation
- * Supervision during construction
- * Contractor training and continuous communication
- * Commissioning

Monitoring and Maintenance

The success of a water and sanitation project is based on proper operation and maintenance. Therefore, ESF plans and trains for the sustainability of its water and sanitation initiatives.

- * Development of tailor-made operation and maintenance manuals
- * Operation and maintenance training
- * Periodical maintenance
- * Continuous monitoring
- * Continuous communication
- * Laboratory analysis





DTS

Decentralized wastewater treatment systems treat domestic wastewater making use of natural gifts like gravity, microbiological activity and temperature.

- * State of the art technology at affordable prices
- * Reuse of treated wastewater
- * No energy input
- * Minimal maintenance
- * No complex mechanical components
- * DTS's effluents meet the requirements stipulated in environmental



Rainwater Harvesting (RWH)

RWH is an ecological option consisting on collecting and storing rainwater for human use from rooftops, land surfaces and rock catchments using simple techniques.

- * Relief of strain on other water supply
- * Cleaner water
- * Increased independence and water security
- * Lower water supply cost
- * Reduced flood flows
- * Greater sensitivity to and connection with natural cycle



Biogas Technologies

They are suited for the treatment of blackwater, faecal sludge, biodegradable waste from industry and municipal solid waste.

- * Production of green energy - electricity and heat
- * Reduction of greenhouse gasses emissions
- * Environmentally friendly recirculation of organic waste
- * Less odor inconveniences when spreading slurry
- * Protection of subsoil water - improved nitrogen exploitation which reduces leaching and thus protects the drinking water
- * Reduced costs for artificial fertilizer



Water Saving Devices

Devices such as water saving toilets, urinals, showers and taps, as well as dry toilets help to optimize your water management practices by reducing:

- * Consumption of fresh water
- * Wastewater production
- * Energy consumption for heating water

- Gujarat Fluorochemicals Limited (GFL), Ranjitnagar, Halol, Gujarat
- Manikgarh Cement, Gadchandur, Dist. Chandrapur, Maharashtra
- Mhada Housing Colony, Badalapur, Thane District, Maharashtra
- Girivan Hill Station, Pune District, Maharashtra
- Dr. Babasaheb Ambedkar College of Arts, Sciences and Commerce, Mahad – Dist. Raigad, Maharashtra
- Gram Seva Trust Hospital, Kharel, Dist. Navsari, Gujarat
- Adarsh Vidyaprasarak Sanstha's College of Arts & Commerce in Badalapur, District Thane, Maharashtra
- Kamanili Kuteer Resort, in post Khariv, Taluka Velha, District Pune, Maharashtra
- Oasis resort in Chandni Chowk, NDA road, District Pune, Maharashtra



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