

Wastewater Production, Treatment, and Use in Mozambique

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Wastewater production and treatment

- **Production:** Wastewater is largely produced as result of different activities making use of water, such as industries, agriculture sector, household/domestic, etc;
- **Treatment:** There are limited treatment infrastructures, except the one recently installed in Beira city, making it to be the biggest in Mozambique in nowadays.

Wastewater use and/or disposal

- Across the nation, in a large scale, wastewater is seen as disposal and is not used;
- Its use in agriculture is null, although in Wastewater Treatment Plant (WTP) in Beira there is a plan to use water for different purposes (including for irrigation);

Regulations and implementation of guidelines

- **Regulations:** Water Law: Decree nr. 18/2004, of the 2nd June; Water Regulation for Licensing and Concessions: Decree nr. 43/2007, of 30th October; Regulation for Building Systems of Water Distribution and Wastewater Drainage: Decree nr. 15/2004, of the 15th July; Regulation for Pollution Prevention and Protection of Marine and Coastal Environment: Decree 45/2006, of 30th November; and Regulation about Standards of the Environmental Quality and Effluents Emissions. Note: there is lack for a specific regulation for wastewater use (in agriculture).

Regulations and implementation of guidelines

- **Implementation:** the implementation is in agriculture is inexistent.

Challenges

- Set a National Strategy for use of wastewater in agriculture;
- Demonstrate the benefits (social and economical) of wastewater use in agriculture;
- Rise public awareness about wastewater use in agriculture;
- Assure the potential health risks are not verified;
- Promote the wastewater treatment plant across the nation, following Beira example;
- Strengthening the capacities across the nation to deal, manage and maintain wastewater treatment plant.

Government's approach to wastewater management

- Still have a lot to be done at all levels, giving that wastewater is not being used for agricultural purposes.

Possible solutions

- First, learn from others;
- Set a National Strategy for use of wastewater in agriculture;
- Demonstrate the benefits (social and economical) of Wastewater use in agriculture;
- Rise public awareness about Wastewater use in agriculture;
- Assure the potential health risks are not verified;
- Promote the WTP across the nation, following Beira example;
- Strengthening the capacities across the nation to deal, manage and maintain WTP.