

Suneka waste water to energy Project- Kisii County

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Problem

- Escape of methane gas, carbon dioxide and other green house gases from the open waste water treatment plant in Kisii municipality that may contribute to ozone layer depletion and therefore leading to global warming
- Perennial complaints from the community surrounding the treatment plant of odors and smell.
- The county government has been planting trees within the treatment plant with an aim of creating a carbon sink to minimize on the smells but this has not been effective.
- There have been complaints by the adjacent community that the sewage is emptied into River Riana could be a health hazard

Proposed Solution

- The sewage sedimentation tanks can be covered then biodigester technology is used to generate biogas and another technology to be used to manufacture fertilizer- organic or inorganic.
- We can have another technology to treat the water and recycle it for agricultural use in food security initiatives inline with the Big Four Agenda of Food security of the national government.
- This will solve the complaints from the community, it will also add to food security of the area, it will also generate biogas, it will add reduce waste water.

Needs

- Feasibility Study
- Hire experts since this is new technology that is not available locally
- Manpower/ human resource
- Equipment and machinery
- Awareness campaigns
- Capacity building for the County staff

Benefits

- Revenue generated for the county from methane gas and fertilizer
- Create jobs during construction, implementation and during the operational phase of the project
- Solve the problem of air pollution
- Stabilization of the community since they have been complaining and demonstrating about the smell. This is a priority of the Kisii County government.

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