RECOGNISED REGIONAL CENTRE OF EXPERTISE ON EDUCATION FOR SUSTAINABLE DEVELOPMENT

TITLE OF PROJECT

Clean water and sanitation

Submitting : RCE North Rift

Organisation: The Eldoret National Polytechnic

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SDG 6: *Clean water and sanitation*

Nationality: Kenyan

Middle East

Country: Kenya

Location(s): North Rift Region, Uasin Gishu County

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Ecosystem(s): Agricultural, Forest, Fresh water, Grassland, Urban/Peri-urban, Wetlands.

Target Audience: Community, Secondary, TVET, Youth (Informal)

Socioeconomic and environmental characteristics of the area:

The region is a major agricultural area with commercial and dairy farming being the prominent sources of income. The region lies within the greater rift valley escapement and it is having a large youthful population with approximately 65% of the population being under the age of 35 years. The rate of employment opportunities is low hence the need to for education in technical skills to absorb the higher number of young people who do not make it to Universities. This has made the student population at The Eldoret National Polytechnic (TENP) rise from around eleven thousand (11,000) three years ago to the current Fifteen thousand (15,000)

Description of sustainable development challenge(s) in the area the project addresses:

There is poor use of natural resources in the area; deforestation has thus lead to climatic change which greatly affects agricultural productivity. Tress are used as sources of energy

Status: Ongoing

Period:

October, 2020 to October, 2028

Rationale:

- Enhancing cleanliness in our cities, learning institution, restaurants and hospitals by reducing sewage blockage and odor.
- Improving water conservation and reduction of water wastage by recycling wasted water while washing or cleaning.

- Helps to obtain animal feeds eg pigs, fish, birds when applied in kitchen areas. Irrigation Purposes from conserved water.

Objectives:

-To recycle 60% of wasted water used for cleaning utensils and general cleanings in the kitchen.

- To reduce sewage level blockages and odor in the kitchen.

-Conserve water for;- irrigation, cleaning our college, for animal consumption, etc.

Activities and/or practices employed:

- ✓ Creation of awareness about the importance of water conservation projects.
- ✓ Creation of exhibitions and competitions on water conservation projects.

Size of academic audience:

11, 000

Results:

1. Through irrigation, there have been an evergreen environment in the institution
2. 60% of wasted water is now conserved on a daily basis hence has greatly reduced water bills
3. Ever constant supply of animal feeds thus increase their production

Lessons learned:

- ❖ Wasted water can be recycled and conserved for future use.
- ❖ Financial challenges in implementing of this project especially in purchasing the materials e.g. Zeolite, Ferolite, silica sand and equipment eg solar water pump.
- ❖ There opportunities because most institutions lack sufficient water supply thus need for such a project to conserve water and reduce water wastage

Key messages: The government should order all learning institutions to have water conservation and water wastage reduction systems.

Relationship to other RCE activities: Tree planting and flowering is an activities carried out by the RCE North Rift while this project greatly engage in irrigation of such plants and flowers.

Funding:

- ***The Eldoret national Polytechnic***
- *Algonquin College, Canada*