

ESTABLISHMENT OF AGRO-TOURISTIC ENTERPRISE IN GABES GREEN HOUSE, CAMPING INCLUDE USE OF GEOTHERMAL WATER

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Introduction

Is about intergraded Agro-tourism in Tunisia which will utilize the Geothermal energy for agricultural production and tourism. In southern part of Tunisia in Gabes, which rich by geothermal water 2000m deep and 78°C temperature. Where our project will be implement.



Problem statement

The phenomenon of pollution which is due to processing activities by the chemical group, has caused the disappearance of the majority of marine species. Also, in this region a lot of ressource aren't valued like dessert, geothermal water, camel.



Value chain affected

Our project can constitute a core to boost the whole value chain, using the potential of the region. The main value chain is about producing seasonal vegetable (Tomato, Cucumber, Melon) in winter. The upgrading of tourism value chain in Tunisia will increase the income of farmers and woman housewife.



Solution approach

The geothermal water will heat the greenhouses in winter season for vegetable production. The water from the greenhouses will then be channeled to the fish pond for fish production Which rich in nitrogen and fish wastes will then be channeled back to irrigate the vegetables in the greenhouse.

OBJECTIVE

To set up Agro-tourism facility in GABES

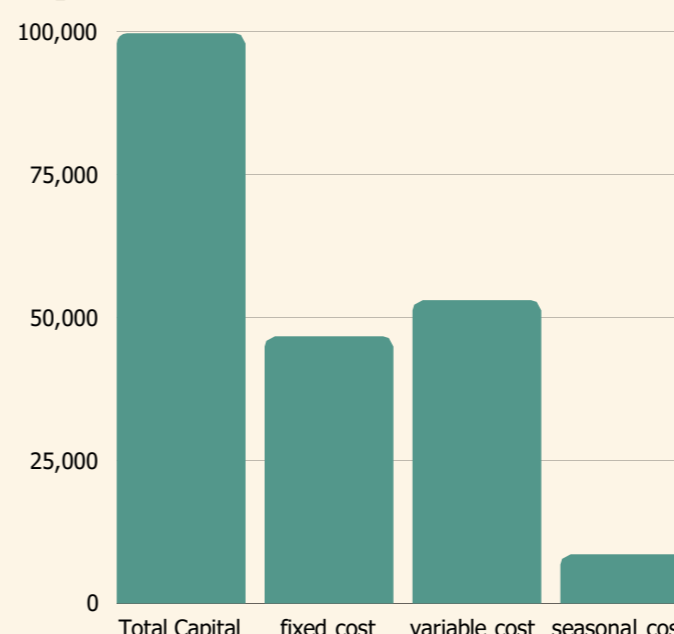
- To utilize geothermal energy to set up greenhouses for vegetable production
- To combine agriculture and tourism
- To utilize the good properties in geothermal water to promote eco tourism
- To create jobs for the local youth and woman

Strength Natural resource and Water availability Experienced team : know-how Some project's equipment already exist such as fertilizers, irrigation system, two greenhouses. Good infrastructure	Weakness Poor access to financial resources High cost of materials High cost of energy
Opportunity Increased need of seasonal vegetables in winter. High government subsidies Large volume of tourists during Sahara festival Vertical integration	Threats Uncompetitiveness due to new technology: more competition, need for replacement Diseases and epidemics

Implementation steps(milestones)



Expected costs



Variable cost:

- seed
- Fertilizer
- plant protection
- Transport
- Machanization

Fixed cost:

- Rent land
- Irrigation system
- Heating system
- Greenhouses
- Fish ponds
- Camping house

Expected outcome(s)

- one greenhouse can create job for 3 woman: 22 woan and youth to be employment directly in this project and more than 10 woman indirectly
- Increase production of vegetable in winter
- increase income of more than 10 family

Possible risks

- climate change may affect our tourism activity
- Diseases and epidemics

Conclusion

This project will be focusing on Establishment of Agro-Touristic enterprise in Gabes (Green house, Camping include use of Geo- thermal water)

»Below is the triangular illustration of the linkage

