

**OTEC Technology for Aiding Women in  
Developing Countries: An Investigation of  
Women's Health-Related Quality of Life in Rural  
Areas of Iran near the Coast of Persian Gulf and  
Gulf of Oman**

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## **Abstract**

- Focus: examine the impact of OTEC technology on the health-related quality of women's lives in Iran
- Clean water impacts:
  - Personal hygiene
  - chronic diseases
  - water-related abnormalities
  - level of education
  - protection from water-born illnesses
  - reduction in physical strain

## 1. Introduction

Definition:

- OTEC :

**clean technology to produce electricity  
and fresh water to aid the women in  
rural areas (Iran )**

- Aim:

**Raise awareness of the health-related  
quality of women's lives in these areas  
from the OTEC facilities**

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## 2. Problems in Supplying Clean Fresh in Persian Gulf and Gulf of Oman in Southern Iran

- A high evaporation rate
- Irrigation methods and overuse
- Desertification and deforestation
- Industrial and urban wastewater runoff
- Destroying wetlands
- harming aquatic life by chemical spills
- Environmental threats because of gas and oil reserving in the golf and lack of policies

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## 2. Problems in Supplying Clean Fresh Water in Iran

- Scarce of fresh water sources
- Rare of real fresh water lakes (just 10)
- Maximum estimated fluoride intake (from drinking water)
- The consumption of contaminated drinking water

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## 3. Health-Related Quality of Life in Women's Population Living in Areas near the Coast of Persian Gulf and Gulf of Oman

- Access to basic needs of life (such as clean fresh water, electricity) is one of the factors that could increase the health-related quality of life more significantly in female population than in male population

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#### 4. Potential Impacts of OTEC on the Quality of Women's Lives in Rural Areas of Iran near the Coast of Persian Gulf and Gulf of Oman

- The foundation of all sustainable development is clean water
- The benefits of clean water influence:  
*1-the daily lives of children and adults*  
*2-the quality of life in a community*

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#### 4. Potential Impacts of OTEC on the Quality of Women's Lives in Rural Areas of Iran near the Coast of Persian Gulf and Gulf of Oman

- In developing countries, divergent social positions lead to differences in water responsibilities, rights, and access
- Because of traditional gender labor roles, women are forced to spend a significant amount of time collecting water

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#### 4. Potential Impacts of OTEC on the Quality of Women's Lives in Rural Areas of Iran near the Coast of Persian Gulf and Gulf of Oman

- Goal: raise awareness of OTEC technology with the hope to make it somewhat known in Iran
- The ease of life for women has a significant impact on
  - ❖ **Women's mental well-being**
  - ❖ **marital satisfaction**

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#### 4. Potential Impacts of OTEC on the Quality of Women's Lives in Rural Areas of Iran near the Coast of Persian Gulf and Gulf of Oman

- Women in traditional cities:  
**have significantly more difficult lives, and a lower quality of life, as compared to the women in most metropolitan areas in Iran.**
- Quality of women's lives:  
**One significant factor is a facilitated access to the most basic needs of life, such as electricity and clean fresh water**

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## Summary and Conclusion

- The focus of this article is to examine the impact of OTEC technology on the health-related quality of lives for aiding women in developing countries
- providing a source of cleaner fresh water will be having a significant long-term impacts on the overall health-related quality of life
- Raise awareness of OTEC technology with the hope to make it somewhat known in Iran in the near future

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## Summary and Conclusion

Access to clean fresh water through using OTEC technology in rural areas of Iran influences :

- women's allocation of time
- level of education
- higher wages
- greater protection from water-born illnesses
- reduction in physical strain
- decreasing stress and time spent

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