

Baseline Scenario for the Clean Water Initiative

1. Current Water Supply and Demand Analysis

- Assess the current water supply sources and demand in the UAE, focusing on areas with displaced communities.
- Identify the gap between available and required potable water quantities.

2. Desalination and Water Treatment Technologies

- Evaluate existing desalination and water treatment technologies being used in the UAE.
- Consider their efficiency, environmental impact, and scalability.

3. Impact of Geopolitical and Environmental Factors

- Analyze how geopolitical or environmental crises have affected water availability and quality.
- Understand the specific needs of displaced communities in terms of water access.

4. Regulatory and Policy Framework

- Review the UAE's policies and regulations regarding water management, desalination, and environmental protection.
- Identify compliance requirements and opportunities for support.

5. Stakeholder Engagement

- Collaborate with local authorities, NGOs, displaced communities, and environmental experts.
- Gather insights and preferences to guide the initiative.

Detailed Methodology for the Initiative

1. Feasibility Study

- Conduct a comprehensive study to assess the feasibility of establishing new desalination and water treatment facilities.
- Include technical, economic, environmental, and social aspects.

2. Site Selection and Environmental Impact Assessment

- Identify potential locations for the facilities.

- Conduct Environmental Impact Assessments (EIA) to minimize ecological footprint.
- 3. Technology Selection**
- Choose appropriate desalination and water treatment technologies that balance efficiency, cost, and environmental sustainability.
 - Consider innovative solutions like solar-powered desalination.
- 4. Infrastructure Development Plan**
- Develop a detailed plan for the construction and operation of the facilities.
 - Include timelines, budgets, and resource allocation.
- 5. Capacity Building and Training**
- Implement training programs for local workforce development in facility operation and maintenance.
 - Foster knowledge transfer and skill development.
- 6. Monitoring, Evaluation, and Reporting**
- Establish metrics to monitor the performance of the facilities and the quality of the produced water.
 - Regularly evaluate the impact on the target communities and the environment.
 - Report progress to stakeholders and adjust strategies as necessary.
- 7. Community Engagement and Education**
- Engage with local communities to educate them about water conservation and the benefits of the initiative.
 - Ensure community involvement in decision-making processes.
- 8. Sustainability and Expansion Plans**
- Plan for the long-term sustainability of the water facilities, including financial models and potential for expansion.
 - Explore opportunities for replicating the model in other regions facing similar challenges.

This methodology provides a comprehensive roadmap for establishing a sustainable and effective clean water initiative in the UAE. It emphasizes not only the technical aspects but also

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PFS-BS-CWI-V2

the socio-economic and environmental impacts, ensuring the initiative is well-rounded and beneficial for the displaced communities.



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