

<div class="df_qntext">Does Egypt have a strategic plan for aquaculture?

SWOT-AHP analysis was applied. Egypt ranked 1st in meagre, and third in global aquaculture production. Employing this approach assures a potent strategic plan. Egypt, a leading producer of aquaculture in the Mediterranean, faces challenges in developing its marine aquaculture sector.

<div class="df_qntext">What is the outlook on marine aquaculture in Egypt?

Prioritizing marine aquaculture strategy in Egypt: SWOT-AHP approach Table 6 illustrates that experts have a negative outlook on the development of Egyptian marine aquaculture. They believe that weaknesses and threats outweigh strengths and opportunities.

<div class="df_qntext">How can we improve Egyptian marine aquaculture practices?

Expanding the application of this approach by engaging a larger number of industry experts and conducting comprehensive future studies, encompassing market research, cost-benefit analyses for Egyptian marine aquaculture practices, and comparing them with international production costs, is crucial to developing a strategy rooted in accurate data.

<div class="df_qntext">Why is the SWOT-AHP approach important for marine aquaculture in Egypt?

Pollution and climate change are also major concerns. In summary, the implementation of the SWOT-AHP approach ensures the development of an effective strategic plan for marine aquaculture in Egypt. This approach contributes to maximizing opportunities and addressing challenges that may hinder the sector's future growth.

<div class="df_qntext">How much seabass does Egypt produce a year?

If Egypt's aquaculture sector produces seabass and seabream of a larger size than that of Turkey and Greece, we can estimate its requirements based on official statistics, which indicate an annual production of about 33,000 tonnes of seabass and 43,000 tonnes of seabream.

<div class="df_qntext">How much trash fish will Egypt produce in 2021?

Given an 8:1 feed conversion ratio for marine fish fed with trash fish, the production of species like seabass, seabream, and meagre in Egypt in 2021 would require nearly 830,000 tonnes of trash fish, which is double the total fish production from fisheries.

Solar energy is increasingly recognized as a sustainable solution for powering aquaculture operations, aligning with global goals for decarbonization and energy efficiency. Leading ...

In this setup, seawater is evaporated using solar energy and then condensed to yield freshwater for irrigation, with solar-driven fans maintaining optimal internal conditions.

This project integrates 6 MW of solar power with 5 MWh of storage, showcasing the transformative potential of renewable energy in non-traditional sectors and marking a significant advancement in ...

This innovative 4-year initiative, which started in June 2023, aims to enhance aquaculture practices in Egypt and across broader Africa by harnessing cutting-edge renewable energy technologies to ...

Submerged vacuum membrane distillation (S-VMD) was proposed in this work to desalinate aquaculture seawater. In this S-VMD without feed-pumping system, the hydrophobic hollow fibre membranes are ...

Under the framework of Water-Energy-Food Nexus, this study investigates the integration of solar-powered desalination with aquaculture and agriculture production systems to grow crops. Brackish ...

For effective aquaculture feeding, a study conducted by Al-Rajhi et al. (2023). presents a solar-powered, Arduino-driven robotic boat that greatly increases tilapia weight gain and ...

Industrialized aquaculture is an essential trend for aquaculture development in China, owing to its considerable advantages in lower water consumption, higher productivity, and ...

Renewable energy technologies, such as photovoltaic (PV) solar panels can be used to reduce the environmental footprint of Egyptian fish farms. Greenhouse gas (GHG) emissions could be lowered ...

As a result, accumulation of pathogenic bacteria in water often occurs and possesses threat of infectious fish diseases. The goal of this study was to evaluate feasibility of solar disinfection ...

The Government of Egypt recognizes the potential of aquaculture and capability for development and expansion of the mariculture industry along the coastlines of the Mediterranean Sea because marine ...

To achieve this objective, this study aims to introduce a comprehensive methodology for strategic planning for marine aquaculture in Egypt. This approach incorporates a combination of ...

The company expert in renewable energy and storage solutions, Sigenenergy, organized the Sigenenergy Day APAC event in Hainan, China, to showcase a pioneering seawater aquaculture ...

Sigenenergy"s solar-storage technology provides a cost-efficient and environmentally sustainable alternative, drastically reducing reliance on traditional power grids and enabling the farm ...

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