

Desalination for Agriculture Finally Possible

This PR delves into the problems of modern agriculture, focusing on grain production, and on desalination, finally affordable as a solution to irrigation.

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/EINPresswire.com/ -- Introduction

Cereal agriculture, essential to our food, faces a major challenge: water management. However, agriculture is the backbone of human civilization, providing the essential food needed for our survival. This article delves into the complexities of modern agriculture, focusing on grain production, the challenges of food distribution, and the desalination finally available as a solution to water scarcity.

1. The Vital Importance of Agriculture to Mankind

Agriculture is not just about food production; it also shapes our societies, economies, and environments. It is crucial not only for food security but also for job creation, economic development, and sustainable management of natural resources.

2. The Top 10 Most Cultivated Grains: Water and Energy Costs

Grains are at the heart of global agriculture. A table showing the top 10 types of grains, their water consumption, and cost is displayed in Info-Box 1.

3. Sufficient Food Production in Theory, but Famine in Reality

Although global grain production is theoretically sufficient to meet basic food needs, the reality is different. Famine persists in many parts of the world, mainly due to the unequal distribution of food resources, conflicts, poverty, and climate change.

4. Famine due to the Inability to produce Food and Water locally

Famine is often exacerbated by the inability to produce enough food and water in regions where needs are most acute. Logistical challenges, inadequate infrastructure, and unfavorable climatic

The Top 10 Most Cultivated Grains: Water and Energy Costs

Grain Type	Water Required (m ³ /ton)	Desalinated Water Cost (USD/ton)	Average Selling (USD/ton)
Wheat	590 - 1,900	295 - 950	200 - 250
Corn	450 - 2,200	225 - 1,100	150 - 200
Rice	1,000 - 3,000	500 - 1,500	300 - 500
Barley	450 - 1,500	225 - 750	100 - 150
Sorghum	450 - 1,650	225 - 825	100 - 150
Millet	300 - 1,100	150 - 550	150 - 200
Oats	590 - 1,500	295 - 750	200 - 250
Rye	500 - 1,400	250 - 700	100 - 150
Triticale	Similar to wheat/rye	Similar to wheat/rye	Similar to wheat/rye
Quinoa	500 - 2,000	250 - 1,000	600 - 1,200

An overview of the water requirements and average costs for major grain types, along with their average selling prices in the market based on a desalination cost of 0.50 US\$ per cubic meter. The price of desalinated water exceeds the price of the crop produced and is unacceptable even if divided by a factor 2. Sciencetech breakthrough makes desalination cost acceptable for irrigation.

In Info-Box 1 Water needs and its average cost based on a desalination price of 0.50 US\$ per cubic meter. The price of desalinated water alone exceeds the selling price of the crop. In contrast Sciencetech breakthrough makes desalination cost acceptable for irrigation.

conditions contribute to this inability.

5. The new Paradigm of [Sciencetchnix](#): Desalination at a Cost acceptable for Agriculture and in a sustainable Way

Sciencetchnix, a research and development company, offers a technology that aligns with the urgent global mandate for international net-zero pollution strategies. This technology not only promises to revolutionize desalination but also comes with comprehensive assurances in water desalination for agriculture.

Conclusion

Global agriculture faces complex challenges. While grain production is sufficient in theory, the reality of famine highlights the challenges of distribution and access to water. Sciencetchnix breakthrough in desalination offers the technological and economic advancements needed to make it viable on a large scale for agriculture. By solving these global challenges, Sciencetchnix proposes to make integrated approach, combining technological innovation, enlightened policies, and international cooperation to solve agriculture water needs in particular through desalination, anywhere and in any quantity.

About Prof. Dr. Alain Elayi:

Renowned Physicist, Prof. Dr. Alain Elayi worked with major institutes and nuclear companies such as EDF and Electrabel. He invented a new desalination technology called MUDT (Multitasking Unconventional Desalination Technology), an ecofriendly and affordable desalination technology.

Personal website <http://alain-elayi.com>

About Sciencetchnix:

Created in 1990, Sciencetchnix is a research company devoted to industrial applications. All the company's income was devoted to research, until the invention of MUDT, its last achievement for desalination.

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Sciencetchnix

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