

HYDROPONICS AND ENVIRONMENT



Inclusive Hydroponic Crops



THE ENVIRONMENT AND ITS IMPORTANCE

The environment is comprised of the natural and man-made elements that make up the environment in which we live (natural resources, water, air, animals, and plants). In recent decades, the uncontrolled exploitation of resources, the intensification of industrial and agricultural activities, along with phenomena such as pollution and the effects of climate change, have endangered our environment. Environmental conservation and the adoption of sustainable practices are essential to mitigate the negative impact our activities have on nature.



Hydroponics and the environment

Hydroponics is emerging as an innovative and efficient alternative for food production, as it allows plants to be grown without soil, optimizing the use of scarce resources like water and significantly reducing waste.

➔ Reduce water consumption

➔ Does not use soil

➔ Does not use fertilizers or pesticides



Sustainability

Sustainability seeks to harmonize economic development, social well-being, and environmental conservation, with the ultimate goal of ensuring that future generations also have the resources necessary to meet their needs. It is divided into:

ENVIRONMENTAL

Seeks to protect the ecosystem

SOCIAL

Pursue equality in access to resources

ECONOMIC

It is oriented towards seeking economic models that are sustainable with the environment.



RECYCLING

Recycling is an essential tool in the fight against pollution, as it allows discarded materials to be transformed into new, useful products, while reducing the total amount of waste.

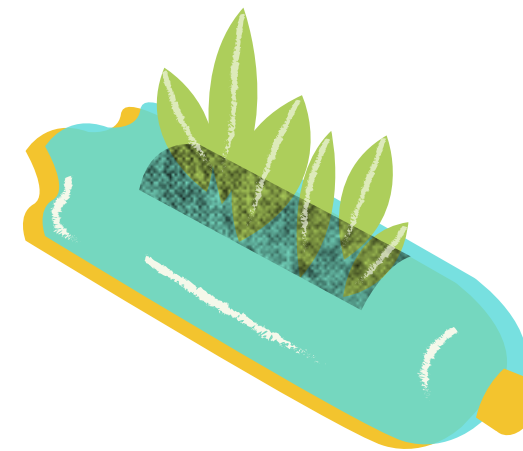


There are several techniques:

- mechanical recycling, based on the crushing and reuse of materials
- chemical recycling, which breaks down materials to extract raw materials
- organic recycling, which is done to obtain fertilizer



Hydroponics is a technique that greatly enhances recycling, as it can be based on reused materials and also generates very little waste.



Examples of recycling in hydroponic crops include the use of bottles or containers as growing containers, or recycled elements such as coconut fiber as substrates for plant growth.



CIRCULAR ECONOMY

SAVE THE EARTH

The product lifecycle is extended through reuse, repair, and recycling, avoiding the traditional linear model of "take, make, and dispose."

In the context of hydroponics, these principles are put into practice very effectively, offering, among other things, sustainable alternatives for managing plastic use. For example, plastic bottles and containers can be recycled and reused as containers for hydroponic crops, giving them a new purpose and preventing them from ending up as waste in the environment.



THE WATER



Water is a vital resource for life on our planet. Current challenges related to water are numerous: population growth, pollution from industrial and agricultural activities, and the impacts of climate change are affecting its availability and quality.

Hydroponics stands as an innovative solution to this problem. By operating with water recirculation systems, this method allows for extremely efficient use of the resource, drastically reducing consumption.



CONCLUSIONS

- 1 Hydroponics reduces water consumption
- 2 It offers a type of cultivation that does not require soil.
- 3 Reduce consumption of fertilizers and pesticides
- 4 Use recycled materials
- 5 Gives a second life to objects such as bottles or containers
- 6 Promotes the recycling of plastics
- 7 It represents a model of environmentally sustainable cultivation.

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