CITRICOS DEL ANDARAX: AN EXAMPLE OF WATER MANAGEMENT

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QUALITY MANAGER AT CITRICOS DEL ANDARAX



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INTRODUCTION - CITRICOS DEL ANDARAX SA BELONGS TO THE GARCIA CARRION GROUP



INTRODUCTION - CITRICOS DEL ANDARAX ALMERIA PLANT

Figure 6 Gádor is located in Almeria district (southeast part of Spain). This village, besides to the Andarax river valley, is well-known for the good quality of its orange trees and for being the largest vegetable producer from Almeria in Europe.



➤ In this privileged area is where our Plant is located. Cítricos del Andarax prepares refrigerated **organic squeezed juices, gazpachos, creams and broths**, the majority of them natural products produced under the "DON SIMON" brand.



INTRODUCTION - CITRICOS DEL ANDARAX ALMERIA PLANT

- In this area, J. García Carrión bought the production of 1,200 hectares, owned by more than 850 farmers, with whom the company have signed long-term agreements. Likewise, the conversion of their conventional plantations to organic crops has been promoted among the farmers of the region. Oranges are harvested when they are at their optimum ripeness, from which we obtain our squeezed juice "Don Simón Ecológico", which has been certified as a natural and environmentally friendly by the Andalusian Committee of Organic Agriculture (CAAE).
- ➤ The Plant has 7 aseptic packaging lines and a processing capacity for more than 60,000 tons of fruit and vegetables per year.
- ➤ The Plant has implemented the ISO 9001 Quality Management system and the international protocols for Food Safety BRC (British Retail Consortium) and IFS (International Food Standard), with the highest qualification in certification audits.

INTRODUCTION - CITRICOS DEL ANDARAX ALMERIA PLANT

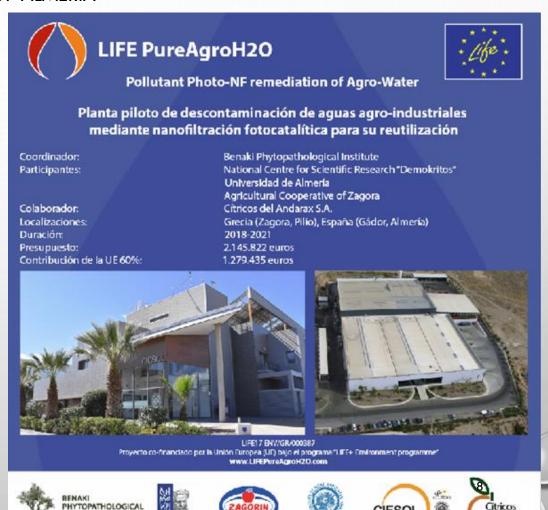
In our Plant in Almería, we have implemented innovative solutions to preserve the environmental aspects of Sustainable Development (water management, use of fuels with less polluting emissions to the atmosphere, such as natural gas, waste management, etc.). The use and optimization of water consumption, a highly valued resource in the area, is one of our achievements in reducing the environmental impact through the treatment and reuse of wastewater.



INTRODUCTION - COLLABORATION WITH THE UNIVERSITY OF ALMERIA

- The collaboration with the UNIVERSITY OF ALMERÍA and CIESOL has been carried out in the form of several projects focused on water management. One of these projects was ACUAPYME (cost reduction of the solar photo-Fenton process through extensive open reactors for water regeneration).
- Nowadays our collaboration is under the LIFE PureAgroH2O Project.







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PROJECT DESCRIPTION

CONTEXT

Daily water consumption is 1MM liters. In the area where the plant operates there is a lack of water supply. Water reuse is key to avoid over-exploitation of local aquifers.

OBJECTIVE

Citricos del Andarax aims to optimize water consumption through its reuse.

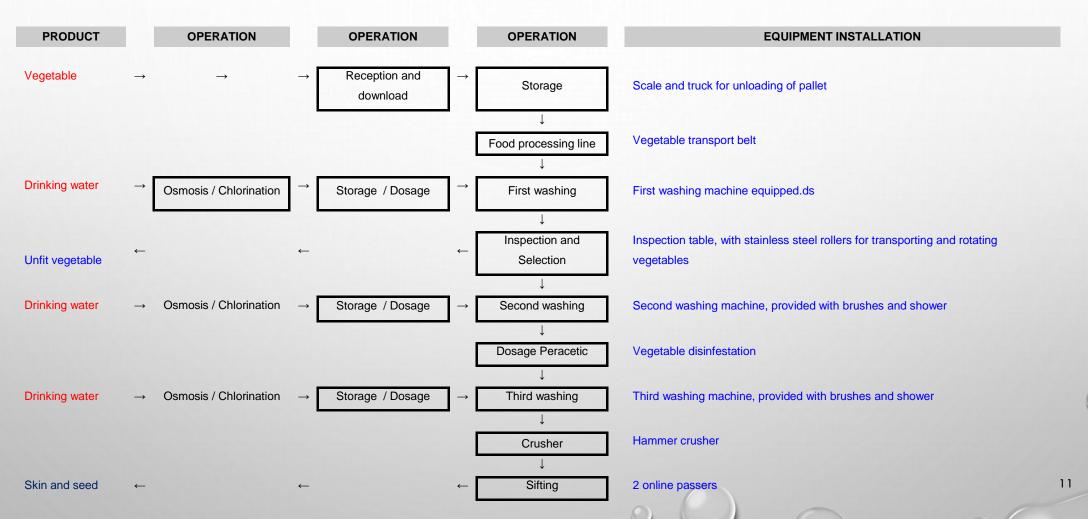
KEY POINT

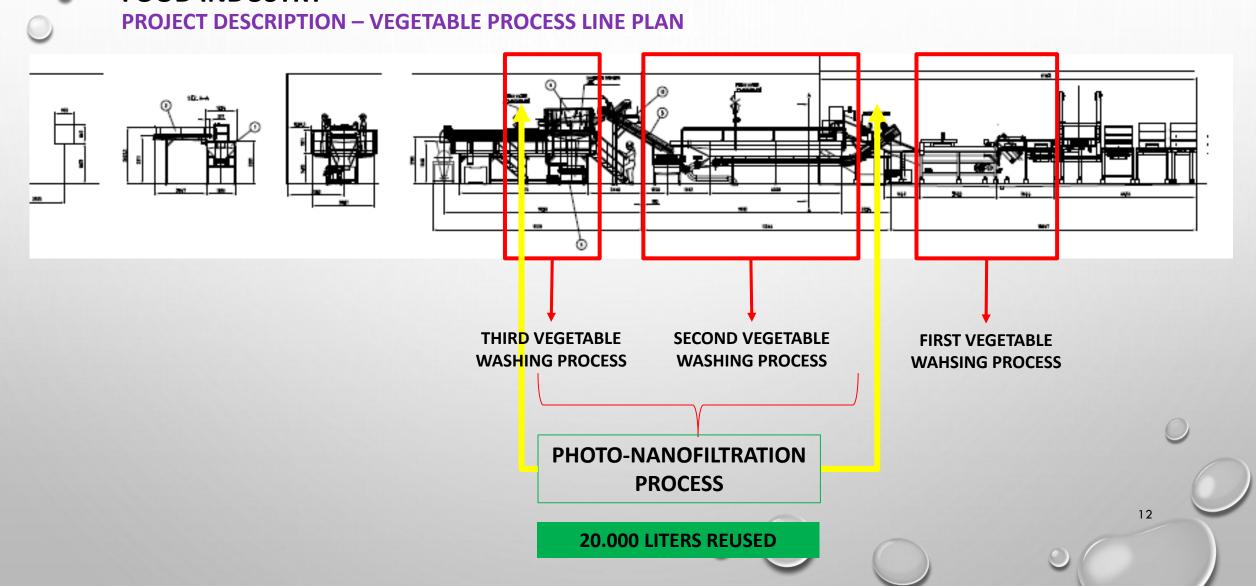
Current project is based on reusing water from the second and third vegetable washings

BENEFITS

With this project we can save 20.000 L daily









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NEXT PROJECT – WATER REJECTION

CONTEXT

Daily water consumption is 1MM liters. Cítricos del Andarax is discharging 200 m³ of water rejection daily.

OBJECTIVE

Taking advantage of osmosis water rejection

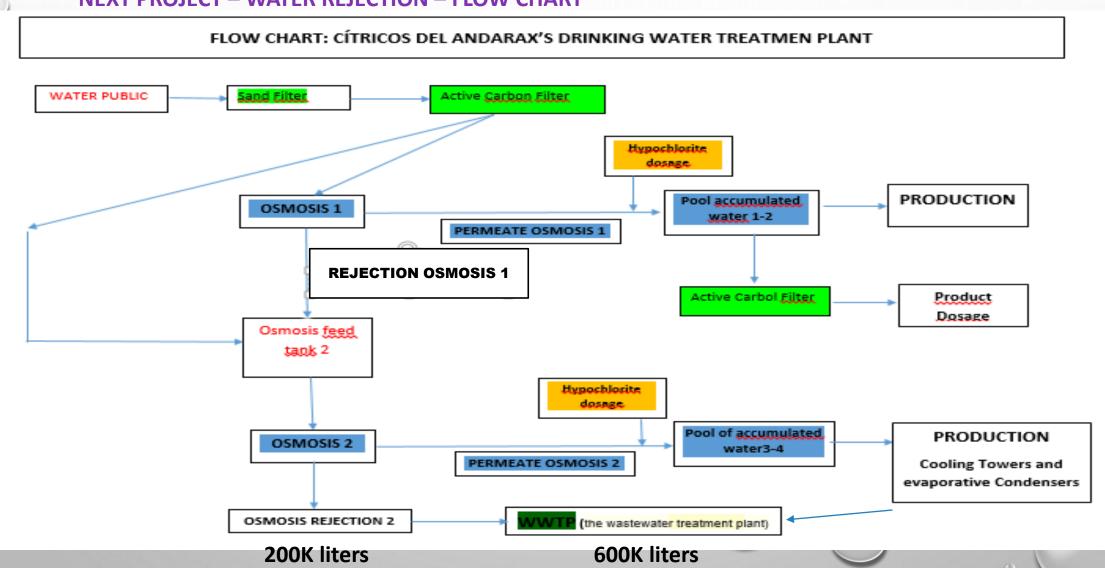
KEY POINT

Achieve zero water rejection

BENEFITS

Saving 200 m³ daily

NEXT PROJECT – WATER REJECTION – FLOW CHART





THANK YOU FOR YOUR ATTENTION