



Pioneering technology applied to wastewater treatment for irrigation purposes

LOCATION: Almería

DURATION: 1'10"

SUMMARY: Researchers from the University of Almería are the first to use solar radiation for wastewater treatment in open reactors. This type of reactor is cheaper than those used to date, tube reactors. They are also easier to install and more effective. The treated wastewater can be used for irrigation purposes.

VTR:

In Almería, one of the Spanish cities with more sunshine hours, a group of researchers from its university is using, for the first time, open reactors to eliminate organic contaminants in urban wastewater.

JOSÉ ANTONIO SÁNCHEZ
Head of the research group

"The process basically involves using solar radiation, with some chemical reagents, mostly hydrogen peroxide."

These opened reactors offers several advantages over the tube systems used to date...

JOSÉ ANTONIO SÁNCHEZ
Head of the research group

"They are much cheaper, this technology is easy to implement and doesn't have many technical difficulties."

A system that is 80% cheaper than the traditional...

JOSÉ LUIS CASAS
Researcher from UAL

"This process is environmentally sustainable, obtaining higher decontamination levels and higher quality effluents."

Once treated, this water will be used...

JOSÉ LUIS CASAS
Researcher from UAL

"For garden and crop irrigation."

Pioneering Andalusian technology that could be implemented in two years, mostly in small villages because as they generate less wastewater, it will be easier to install.