

# **20kW Photovoltaic Folding Container Used in South African Wastewater Treatment Plant**





## Overview

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Can solar-driven water treatment be used in rural areas?

The technical and economic potential assessment for using solar-driven water treatment sets the course for further research and development projects in the most significant industrial sectors and municipal wastewater treatment, but also for use in rural areas (e.g., Africa) for applications like drinking water production.

Are solar photons a viable solution for wastewater treatment?

In addition to thermal technologies, decontamination, and disinfection processes are paramount in wastewater treatment. Developing new decontamination and disinfection systems using solar photons must gain significant attention and visibility as a promising solution for achieving effective and sustainable disinfection.

Can solar thermal collectors be used for wastewater treatment?

Applications in various industrial sectors for solar water treatment. One research focus area of the Task was the combination of solar thermal collectors with technologies for wastewater treatment. This work aimed to create an innovative and, above all, economically attractive solution for industry.

How many wastewater treatment plants are there in South Africa?

South Africa (SA) is estimated to have approximately 955 municipal wastewater treatment plants (WWTPs), yet only 13% comply with the minimum water discharge standards. This results from elevated levels of organic matter and, to a lesser degree, non-biodegradable materials.



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