

Breakthrough technology purifies water using the power of sunlight

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A research team, led by Australia's Monash University, has been able to transform brackish water and seawater into safe, clean drinking water in less than 30 minutes using metal-organic frameworks (MOFs) and sunlight. Credit: Monash University

A global research team has been able to transform brackish water and

seawater into safe, clean drinking water in less than 30 minutes using metal-organic frameworks (MOFs) and sunlight.

In a discovery that could provide [potable water](#) for millions of people across the world, researchers were not only able to filter harmful particles from [water](#) and generate 139.5L of clean water per kilogram of MOF per day, but also perform this task in a more energy-efficient manner than current desalination practices.

The World Health Organization suggests good quality drinking water should have a total dissolved solid (TDS) of

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