

Our Planet, Our Power Harnessing Renewables to Conserve Water

This Earth Day 2025, we face a critical moment.

Water, our most vital resource on earth, is under threat as climate change accelerates.

But by shifting to **renewable energy**, we can conserve water, protect ecosystems, and power a sustainable future. The time to act is now.

GLOBAL POPULATION FACTS



About **a quarter** does not have access to safe drinking water



Almost half lack proper sanitation services



Nearly two-thirds experiences severe water scarcity for at least one month each year

AT THE SAME TIME, THE GLOBAL ENERGY SYSTEM USED

370

**Billion cubic metres
(bcm)
freshwater in 2021**

Or roughly

10%

**of total global
freshwater
withdrawals**

Source: Tomás de Oliveira Bredariol, Energy and Environmental Policy Analyst. (2023, March 22). Clean energy can help to ease the water crisis.

Photo credit: Getty Images

Water withdrawals in the energy sector **decrease by 20 bcm by 2030**, mainly due to the shift from coal to solar and wind power, along with greater energy efficiency. - ***Net Zero Emissions by 2050 Scenario (NZE)***.

In the NZE Scenario, **water consumption rises by 5 bcm by 2030**, driven by **bioenergy growth**. While **bioenergy supply increases 85%**, **water use grows slower at 70%**, due to greater use of lower-water resources like organic waste and wood residues.

Source: Tomás de Oliveira Bredariol, Energy and Environmental Policy Analyst. (2023, March 22). Clean energy can help to ease the water crisis.

Photo credit: Getty Images Signature



Water availability is now **crucial for assessing energy projects**, and solutions like **water recycling, efficient cooling, and integrated energy-water management** can **reduce risks**. **Clean energy technologies** like solar PV can also **help improve water access**.

Source: Tomás de Oliveira Bredariol, Energy and Environmental Policy Analyst. (2023, March 22). Clean energy can help to ease the water crisis.

Photo credit: Getty Images

What Can We Do Today?

1. Save water at home by installing low-flow fixtures, fixing leaks, using water-efficient appliances, and collecting rainwater for outdoor use.

2. For businesses, can cut water use by up to 50% with efficient technologies, water reuse, and regular plumbing maintenance. Raising employee awareness and using rainwater harvesting systems can further promote sustainability.

Source: Flou. (2024, April 24). Every Day is Earth Day: Water Conservation Practices for Home, Business, and Agriculture. <https://flou.ca/blogs/rainwater-harvesting-a-sustainable-solution/every-day-is-earth-day-water-conservation-practices-for-home-business-and-agriculture?srltid=AfmBOoqjKwLVBwG1NXAM5pFJgrCrTwJi9GOjQSyhiKhuTBNo439yZ81>