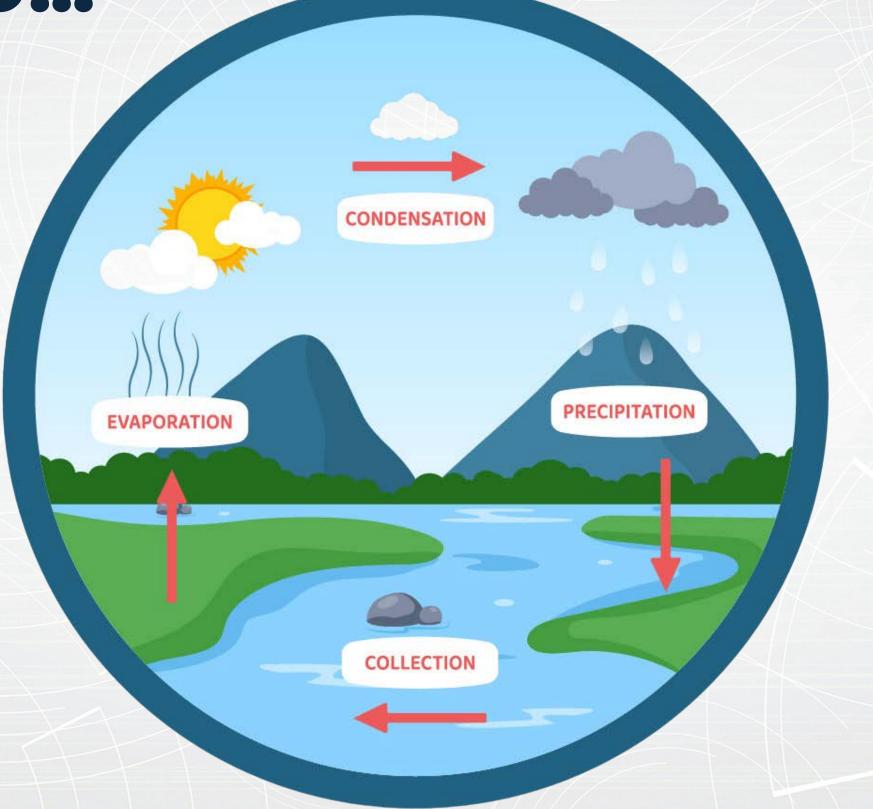


Water is an Endlessly Renewable Resource...





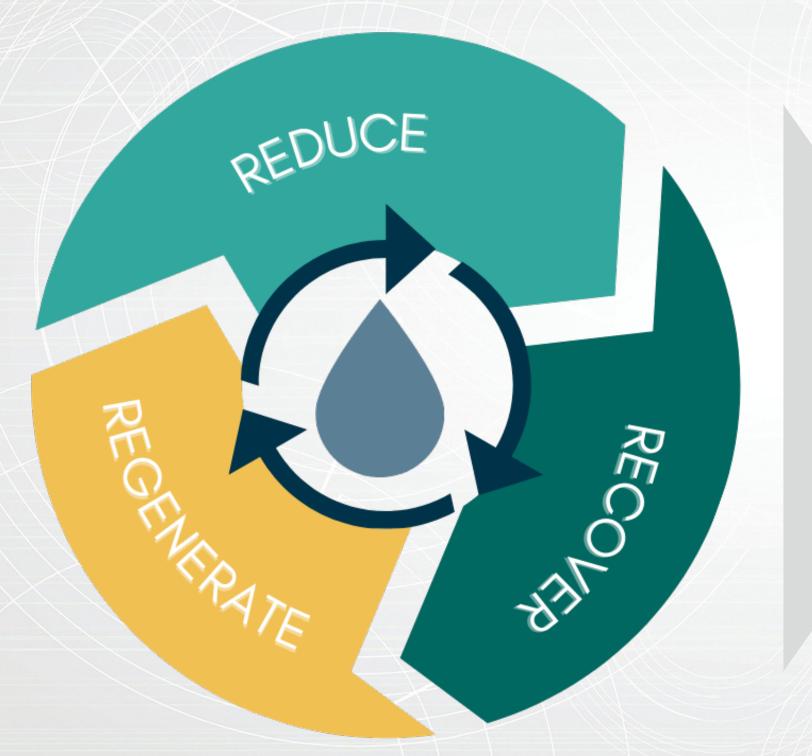
But the way we use it is not



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The Circular Water Economy provides the path forward



Economic growth
Job creation
Stronger environment
Greater resilience



Minimizing Waste, Maximizing Value

High resource consumption, large waste output, no recovery

Resource recovery reduces waste and regenerates nature, creating a circular water economy





Reduce

Minimize waste in service delivery and enhance water system efficiency

Energy Efficiency - Reducing the energy used to provide water and wastewater services

Source Control - Preventing pollution at the source to reduce the costs of treatment

Stormwater Management - Investing in stormwater infrastructure to reduce financial impacts of natural disasters





Milwaukee Metropolitan Sewerage District (MMSD)

MMSD implemented innovative strategies to reduce waste and enhance energy efficiency, aligning with its 2035 Vision to meet 100% of its energy needs with renewables

Economic Value: Cost savings of ~\$1.68 million annually from methane gas utilization



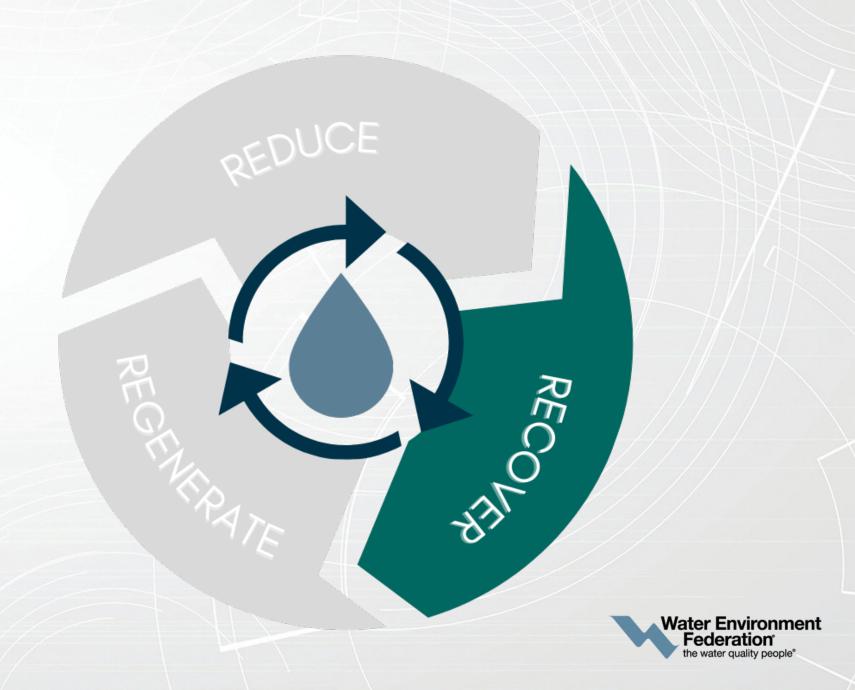
Recover

Convert waste that cannot be eliminated into valuable resources

Water Reuse – Using treated wastewater for agriculture, irrigation, and municipal purposes

Nutrients – Extracting valuable resources like nitrogen and phosphorus

Energy – Harnessing energy from wastewater



Loudoun Water

Loudoun Water in Virginia provided 815 million gallons of recycled water in 2023 for cooling data centers, conserving freshwater resources and reducing nutrient discharge into Potomac River and Chesapeake Bay.

Economic Value:
Cost savings of ~\$3.26 million
compared to potable water



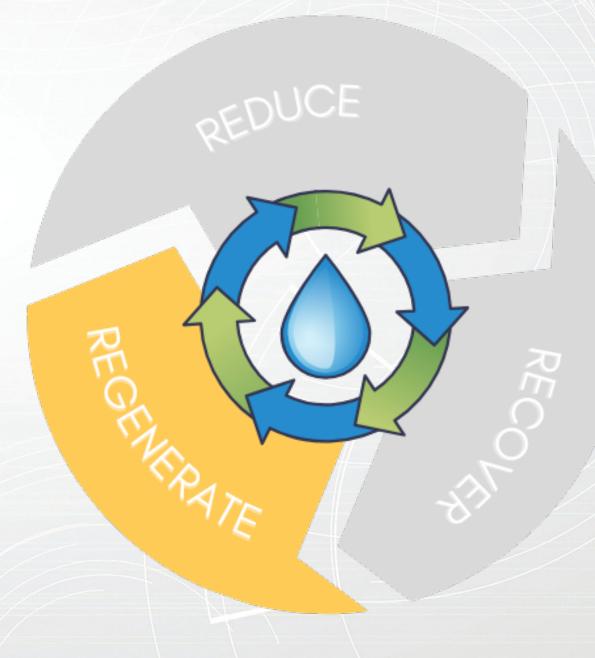
Regenerate

Strengthening nature while using and treating water

Water Resource Management - Ensuring a rational and resilient approach to using water

Watershed Restoration – Protecting and revitalizing water sources

Nature-Based Solutions - Providing water services while delivering co-benefits for the environment





Clean Water Services

Clean Water Services Fernhill Natural Treatment Systems use engineered wetlands to naturally treat water, restore habitats, enhance biodiversity, and improve water quality in the Tualatin River.

Economic Value:
Cost savings of ~\$18 million
compared to traditional
treatment system



Making Circular Water Work

Scarcity & Resilience

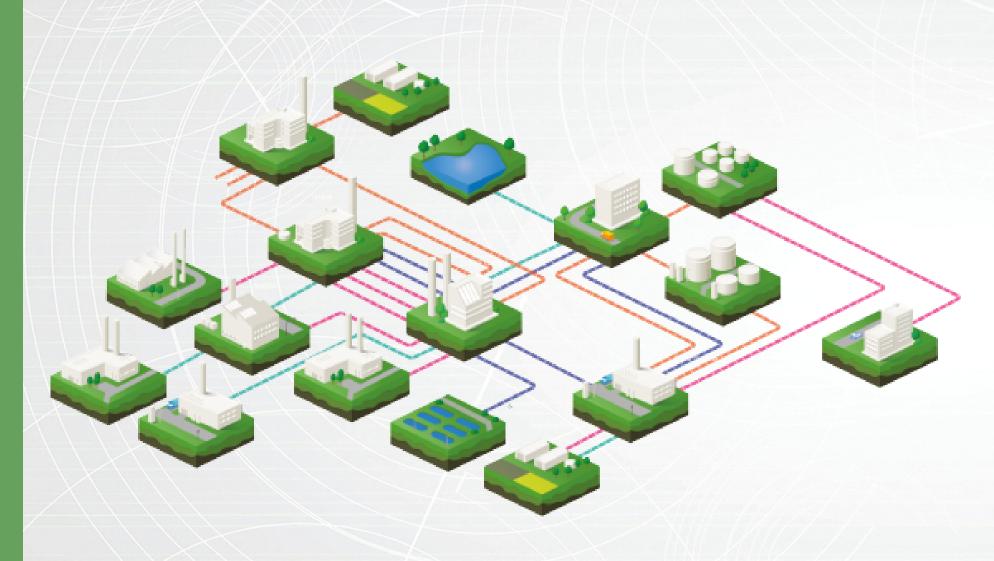
Regulations & Incentives

Innovation & Technology

Corporate Commitments

Economies of Scale

Kalundborg, the Platinum Standard for Circular Water



1 billion gallons of water saved

635,000 tons of greenhouse gases eliminated

100 gigawatt hours of energy saved

5,000 jobs created

Since inception, generated ~\$370 million in savings



Get Involved Today

Join WEF in leading the transformation to the Circular Water Economy!

LEARN

Sign up for Circular Water
Economy 101 Course
Explore Circular Water
case studies

ENGAGE

Join a WEF Community
Participate in a study tour
Become a WEF Circular
Water Ambassador

TRANSFORM

- Propose a topic-specific workshop in a box idea
- Present at an upcoming WEF event

