



# WATER SERVICES

REALIZING THE VALUE OF WATER  
FOR COMMUNITIES WORLDWIDE

BUILDING A WORLD OF DIFFERENCE<sup>®</sup>  
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**BLACK & VEATCH**

# EXPERTISE IN ALL FACETS OF WATER

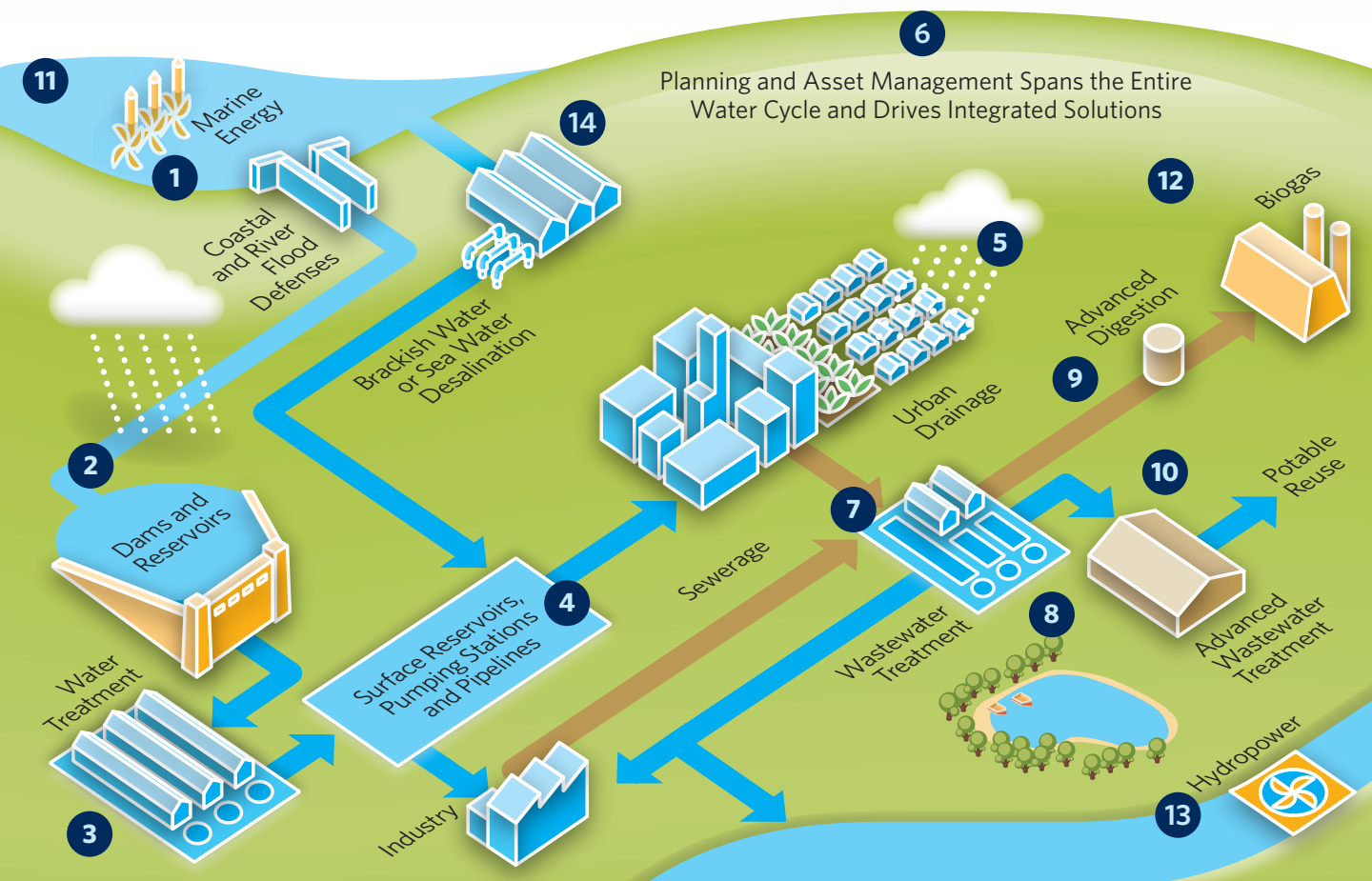
We make the use of water - whether it's raw water, drinking water, wastewater, stormwater, or recycled water - resilient, reliable, safe, and affordable wherever and whenever it's needed.

Working with public providers and private industries, we:

- Help conserve precious water supplies and protect the environment in the face of major demographic, economic and climate changes.
- Balance system and user needs with available capital, promoting financial sustainability.
- Advance understanding about the true value of water in support of social sustainability.

<div>PLAN</div> <div></div>	<ul style="list-style-type: none"><li>▪ Integrated – all aspects of the water management cycle.</li><li>▪ Resilience – holistic, big-picture thinking for strategic, operational and financial resilience.</li><li>▪ Risk-based – understand assets and analyze data to optimize decision making.</li></ul>
<div>SOURCE</div> <div></div>	<ul style="list-style-type: none"><li>▪ Developing and expanding supply sources less susceptible to climate change.</li><li>▪ Managing stormwater and water resources for community benefit.</li><li>▪ Efficiently and safely returning used water to the environment or beneficially reusing it.</li></ul>
<div>TREAT</div> <div></div>	<ul style="list-style-type: none"><li>▪ Facility design, process design and advanced treatment technologies.</li><li>▪ Fostering regulatory compliance.</li><li>▪ Biosolids and residuals management.</li></ul>
<div>CONTROL</div> <div></div>	<ul style="list-style-type: none"><li>▪ Storing and carrying treated water to communities.</li><li>▪ Collect and convey used water and stormwater for treatment, watershed management.</li><li>▪ Driving sustainability and system resilience.</li></ul>
<div>GENERATE</div> <div></div>	<ul style="list-style-type: none"><li>▪ Closed-loop solutions for energy, nutrient and water recovery.</li><li>▪ Driving renewable power by capturing energy embedded in movement and treatment of water.</li><li>▪ Harnessing nutrients in wastewater and closing the phosphorus gap.</li></ul>
<div>PROTECT</div> <div></div>	<ul style="list-style-type: none"><li>▪ Sustainable water and watershed management protecting communities from flooding and natural disasters.</li><li>▪ Climate change resilience; coastal and river basin management.</li><li>▪ Safety by Design and regulatory compliance.</li></ul>

# BLACK & VEATCH SERVICES SPAN THE ENTIRE WATER CYCLE



- 1 CLIMATE CHANGE RESILIENCE**  
Protecting people and property from impacts of sea level rise, land subsidence, drought and flooding, and helping communities adapt to the effects of climate variability.
- 2 DAMS & RESERVOIRS**  
Design and construction of new dams and rehabilitation of existing ones, including safety and risk assessment.
- 3 DRINKING WATER**  
Efficiently treating fresh water to drinking water quality standards for domestic/commercial use.
- 4 CONVEYANCE & STORAGE**  
Storing and carrying raw and treated water to communities through distribution systems and storing and carrying used water and stormwater from communities through collection systems.
- 5 STORMWATER & FLOODING**  
Sustainable urban drainage management and protecting communities from flooding.
- 6 PLANNING & ASSET MANAGEMENT**  
Holistic planning to solve persistent challenges associated with aging infrastructure and increasing regulatory requirements, while reducing cost and risk. Managing demand, smart metering and reducing leakage.
- 7 WASTEWATER**  
Safely treating wastewater from homes and businesses and reducing infiltration.
- 8 WATER RESOURCES/ ENVIRONMENTAL**  
Efficiently making water safe to return to the environment. Includes green infrastructure through ecosystem assessments and community systems.
- 9 BIOSOLIDS MANAGEMENT**  
Processing biosolids for reuse as fertilizer, fuel and aggregates.
- 10 WATER REUSE**  
Treating wastewater for commercial and domestic reuse.
- 11 MARINE ENERGY**  
Transforming the power of waves and tides into sources of electricity.
- 12 COGENERATION/COMBINED HEAT AND POWER (CHP)**  
Using biogas from wastewater treatment processes to generate both heat and power and renewable fuel.
- 13 HYDROPOWER**  
Harnessing the energy in moving water to generate clean, renewable power.
- 14 DESALINATION**  
Treating impaired water, brackish or seawater for potable or fit-for-purpose industry and irrigation uses.

Black & Veatch offers the services and infrastructure to collect, move, clean, store, protect and manage water comprehensively. We work locally while leading with world-class technical innovations and applying industry best practices. Helping communities realize the true value of water is how we're *Building a World of Difference*.

