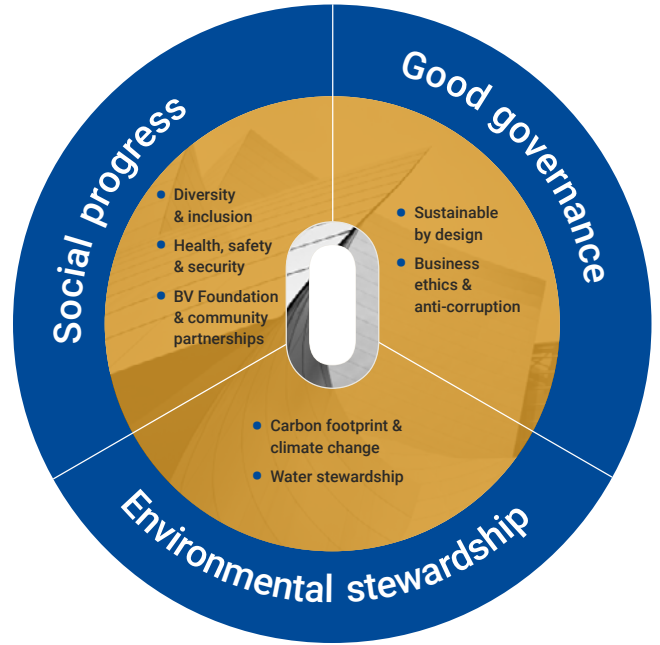


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Sustainability Solutions



At Black & Veatch, sustainability is a critical part of our company's purpose, business strategy, culture and daily operations. We understand our Scope 1 & 2 emissions impact our client's Scope 3 goals. Managing our carbon footprint is a top priority, both as a component of our own strategy and to support our clients as part of their supply chain emissions goals. As we implement our sustainability strategy, success is measured by our ability to reach our GHG carbon emissions reduction goals and to provide decarbonization and climate adaptation solutions for our clients. These commitments reflect the priorities of employee-owners and clients, and help position our business for sustainable growth to achieve our vision to work relentlessly to solve humanity's critical infrastructure challenges.



Our Corporate Sustainability Goals

As a signatory to the United Nations Global Compact, the CEO Water Mandate and the United Nations Caring for Climate Pledge, Black & Veatch is aligned with global efforts to advance the United Nation's Sustainable Development Goals. We have identified the following goals as part of our corporate sustainability strategy.



- By 2023, reduce our Scope 1 and 2 emissions by 40 percent and overall GHG emissions (Scope 1, 2 and 3 business travel and teleworking) by 20 percent from a 2019 baseline.
- By 2025, deliver a low-carbon future by being net-zero for our direct operations.



- Collaborate with clients to deliver their decarbonization commitments by helping them set targets, create executable roadmaps to achieve their goals, evaluate alternate technology and investment choices, and design and build clean infrastructure.



- Assume a leadership position in deploying infrastructure that mitigates and adapts to climate change.

Our sustainability service offerings

include the design and construction of the following project solutions to help meet your sustainability objectives.

Clean & Resilient Power

Utility Scale

- Renewable power development
- New energy (like hydrogen, nuclear, bio-gas)
- Transmission and distribution
- Carbon mitigation plans
- Power purchase agreements
- Carbon capture

Site Scale | Primary, Backup, and Bridging Power

- Natural gas generators
- Hydrogen generators
- Roof-top and ground-mount solar
- Sustainable fuels like bio-gas
- Fuel cells
- Nuclear (future SMR)
- Combined heat & power (CHP)
- Microgrid
- Battery energy storage systems (BESS)
- Electric grid reliability studies



Water Conservation, Treatment, and Reuse

Water Conservation

- Water use reduction alternatives
- Water Treatment and Reuse
- Cooling wastewater recycling
- Ultra-purification for manufacturing
- Zero liquid discharge and discharge compliance
- Optimization of wastewater treatment

Circular Waste Streams

By-Product Re-work / Re-purposing

- Solutions for food and bio-manufacturing clients to gain value from what is otherwise wasted
- Process operations evaluation to recycle waste stream
- Organic waste handling and management through digestion

Construction Waste

- Prefabrication for reuse and recycle
- Eliminate/reduce plastic wrapping

Waste-to-Energy

- Convert waste streams, including off-gas, biomass, food wastes, and municipal solid wastes to valuable products

Biodiverse Ecosystems

Environmental, Emissions, Biodiversity Compliance

- Environmental assessment
- Impact statements and mitigation plans
- Permitting, regulatory compliance and agency
- Land use planning and climate analytics
- Green infrastructure
- Stormwater management

Reimagined Nutrition to Feed a Growing Population

Controlled Environment Agriculture

Recirculating Aquaculture

Traditional Food & Beverage – Sustainable Facility Design

Alternative Proteins

Green Building Design

Building Design and Supply Chain

- LEED certification
- Life-cycle analysis
- Embodied carbon calculations
- Computational Fluid Dynamics (CFD) modeling
- Enhanced building systems efficiency

Sustainability Road-mapping

- Decarbonization road-mapping
- NOX reductions and CO2 capture

Operations - Alternative Fleet Fuel Infrastructure

- EV fleet and equipment conversion
- Maintenance analysis

ISI Envision Sustainability Certified Professionals

