



THE WATER-ENERGY GHG PROTOCOL PROJECT

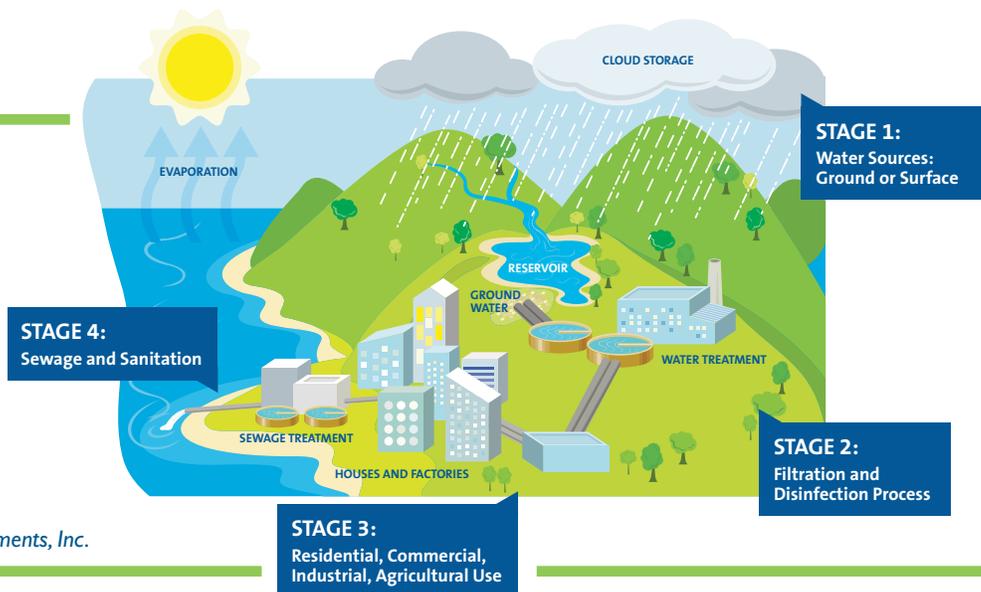
The Climate Registry

ENERGY AND WATER are intricately connected, and there is an enormous amount of energy embedded in our nation's water supply – from the collection, production, transport, treatment and delivery of water; to the direct consumption of water; to the collection, treatment, and disposal or reuse of wastewater. Water and wastewater utilities alone account for about 5.5 percent of overall U.S. electricity use.

While some water agencies and large water consumers already track greenhouse gas (GHG) emissions from parts of the cycle, there is no consensus-based guidance for estimating GHG emissions across the complete water cycle— including those associated with the operations of water utilities and large water consumers.

The Water-Energy GHG protocol will ensure that water and wastewater utilities, local governments, and other large water consumers can accurately determine the GHGs associated with the complete water cycle, in order to:

- ☀ Measure the direct and indirect climate impacts of operations throughout the water use cycle
- ☀ Compare data using consistent accounting and boundaries
- ☀ Claim credit for reducing energy use and GHGs associated with water
- ☀ Save money by understanding the cost/benefits of proposed projects with accurate, consistent data
- ☀ Communicate the effects and benefits of water, energy and GHG reduction efforts to stakeholders.



Source: Calvert Investments, Inc.

“METRICS ARE IMPORTANT. Benchmarks help us to understand where we are, where we have been, and what we need to do to get to where we want to go. The ability to comprehensively assess the relationships among water, energy and greenhouse gas emissions will lead to more efficient investments, more effective programs, and more resilient markets.”

Fran Spivy-Weber, Vice-Chair, CA State Water Resources Control Board

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The Water-Energy GHG Protocol will provide critical guidance for water providers and large water consumers:

GHG accounting methodologies for all sources across the complete water use cycle



Metrics relevant to water agencies, electric providers, and other large water consumers



Guidance on verification for water-related emissions data

TCR PROTOCOL EXPERTISE

TCR developed and continues to maintain the reporting and verification guidance that underpins the largest voluntary corporate GHG reporting program in North America. Our General Reporting Protocol (GRP), General Verification Protocol (GVP), and Guidance on Accreditation (GoA) operationalize the international standards established by the World Resources Institute (WRI), World Business

Council for Sustainable Development (WBCSD) and the International Organization for Standardization (ISO). TCR has developed protocols for local government operations, the electric power sector, and the oil and gas exploration and production sector with partners from the corporate, government, regulatory, and the non-profit sectors.

The protocol development process will consist of:

PHASE 1

Research, literature review, outreach to stakeholders, and development of a “technical paper” that will serve as the basis of Phase 2

PHASE 2

Facilitate protocol Working Group (20 – 25 technical experts) to draft Water-Energy GHG protocol

PHASE 3

Public comment period; finalize and approve Water-Energy GHG protocol by Working Group

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