WaCClM, accelerating action to decarbonize the water sector

The water sector is increasingly being impacted by climate change, it also contributes up to 10 percent of global carbon emissions from its energy consumption, as well as other greenhouse gases such as nitrous oxide and methane from wastewater systems.

WaCClM (the Water and Wastewater Companies for Climate Change) is a project that defines a road map for water utilities and guides them towards energy and carbon neutrality.

Reducing operating expenditure
- reduced energy bills and minimized vulnerability to fluctuating energy prices

Improving asset productivity
- maximized performance of existing assets, efficient future assets

Benefiting society
- resilient societies, healthy ecosystems, new business opportunities

Unlocking climate financing
- water utilities are part of the solution to reduce carbon emissions

Seizing the Opportunities

$10 trillion
In water infrastructure by 2030

Up to 10%
Of total GHG emissions can be reduced

Up to 3 times
more emissions from untreated sewage than from conventional wastewater treatment

... to address Global Challenges by 2030

Climate
- Cap on Temperature rise

Access
- Safe drinking and adequate sanitation

Environment
- Reduction in untreated wastewater

2°C
100%
50%
The WaCCliM Roadmap: the pathway to energy efficiency and carbon neutrality for water utilities

1. **Awareness**
   - Why decarbonize?

2. **Assessment**
   - Energy and Carbon Emissions Assessment and Monitoring (ECAM) WEB-Tool
   - Online Catalogue of Solutions

3. **Implementation**
   - Locally tailored solutions and economic assessment
   - Technical options and economic assessment
   - Guidelines to develop a bankable project
     - Check List
       - Capacity building
       - Prioritization
       - Pre-feasibility studies
       - Inform project-finance structuring
     - Access financing
     - Install measures

4. **Monitor**
   - Energy and Carbon Emissions Assessment and Monitoring (ECAM) WEB-Tool
   - WACCLIM
   - Future Low Carbon Assets
   - Energy and Carbon neutrality

The WaCCliM project has developed a carbon and energy accounting tool to invest wisely on our combined water and climate change challenges.
WaCCliM: Pioneering GHG reductions in the water sector of emerging economies

WaCCliM has pilots in four countries that are pioneering solutions to achieve energy and carbon neutrality.

Low carbon, climate resilient urban water systems are part of the solution: Up to 30% CO2e reduction potentials identified in WaCCliM pilots.

IT’S HAPPENING AROUND THE WORLD!

Example of one measure at San Francisco Del Rincon, WaCCliM Mexico Pilot Utility:
- 20% energy savings from improved pumping efficiency
- Investment is recouped in 4 years
- 13% CO2 saving per person / year

“Tomorrow’s carbon neutral utilities are being built today!”
Astrid Michels, GIZ

Join the WaCCliM Initiative!

- Invest in decarbonizing the Water Sector to meet Nationally Determined Contributions agreed in the COP21 Paris Agreement
- Empower utilities to become leaders for climate resilient, low-carbon cities.
- Strengthen policy and institutional frameworks for enabling Nationally Appropriate Mitigation Actions (NAMA)

Contact
Corinne Trommsdorff / IWA  corinne.trommsdorff@iwahq.org
Astrid Michels / GIZ  astrid.michels@giz.de