WORLD WATER WEEK in Stockholm

Energy and Water
August 31-September 5

Combining Water Footprint and Water Risk for Improved Water Stewardship"

(room T4 – September 3rd – evening)

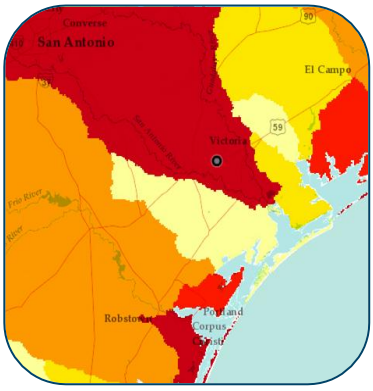
Water is crucial for energy activities both for energy generation and the upstream supply chain. As a stakeholder involved in environmental and social responsibility, GDF SUEZ decided in 2011 to assess **water related risk** and measure the **water footprint** for all sites **worldwide**.

This event will be an opportunity to discover a practical implementation of existing tools and to exchange on the method and results.

The objectives of the discussion are to:

- Demonstrate that **water footprinting assessment** and **water risk analysis** at company level are strong tools to define a **water strategy and associated action plans**.
- Reveal the **benefits of combining water footprint with water risk analysis**. GDF SUEZ has implemented two water risk analysis tools, Aqueduct (WRI) and the Global Water Tool (WBCSD) and assessed simultaneously water footprint of electricity produced.

Extremely high water stress area

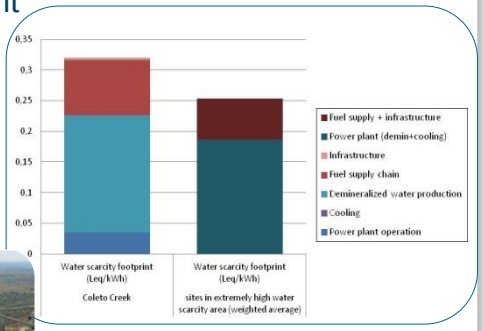


Coleto creek - Texas

Coal thermal power plant

Water body uses

Water footprint



Water conservation plan at power plant level

Withdrawals plan defined with the Guadalupe-Blanco river Authority (GBRA)	**Goals** established on amount of water recycled and reused and amount of water not lost or consumed	**Target**: 1% reduction in water used based on quantities recycled and/or not consumed in 5 years. (2.5% in 10 years)

WORLD RESOURCES INSTITUTE

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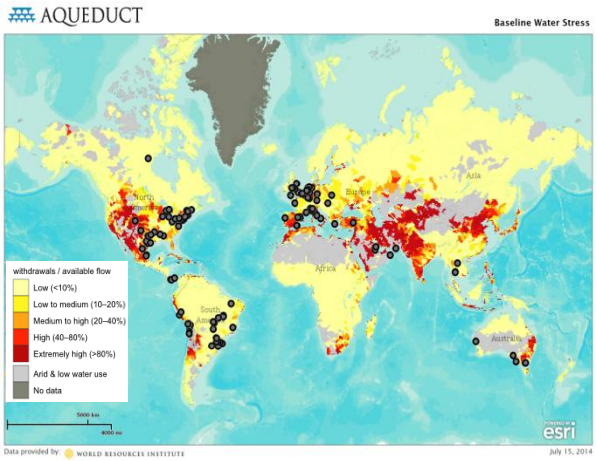
Water risk / Aqueduct

Aqueduct is the World Resources Institute's free online **global water risk mapping tool**. Aqueduct is designed to:

- Help companies and investors **manage and reduce their exposure to water risk**.
- Help public sector leaders **achieve more equitable and sustainable water resources management.**
- Highlight **trends and opportunities for innovation in water management technology and policy**.



Aqueduct's global water risk maps is a **framework of twelve indicators to create detailed, comprehensive, global maps of water risk**. Users can plot the locations that matter most to them – facilities, suppliers, etc. – and compare water risk levels between sites.

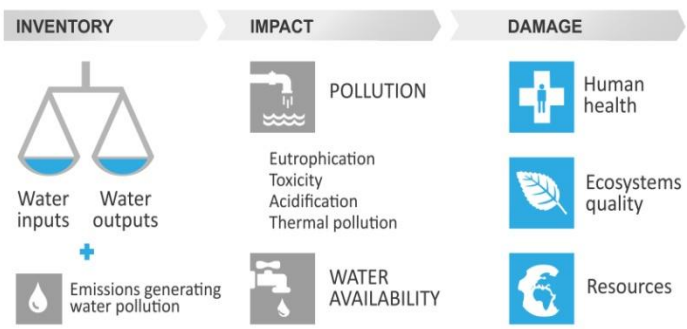
www.wri.org/our-work/project/aqueduct/aqueduct-atlas

Water footprint

Metrics are key to support a water sustainability strategy. The water footprint methodology, as defined in the ISO 14'046 (2014), provides the basics to assess a company's environmental impact associated with water, supporting improvements and impact reduction strategies.

The **WULCA group**, launched within the UNEP-SETAC Life Cycle Initiative, **is leading the consensus building process and the scientific work into achieving a harmonized method for assessing water footprint** from water use, involving key method developers and stakeholders through an international collaborative effort. *www.wulca-waterlca.org*

Water footprint assessment pathways



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Agenda

- **Water risk analysis tools**: the example of Aqueduct (WRI)
- **Water footprint**: state of the art and recent developments (WULCA)
- **Case study**: Combined use of water footprint and water risk analysis tool by GDF SUEZ
- Questions & Answers
- Networking with refreshments

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