# **Considerations for Assessing Companies' Exposure to Water Risk**

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#### 1. Does the company measure and understand its water footprint?

- a) Does the company know its direct water use?
  - ◆ Does the company measure how much water is required and used in its direct operations?
  - ◆ Does the company measure the quantity and quality of its wastewater discharges?
  - ◆ Does the company understand the connections between its energy and water use?
- b) Does the company know its indirect water use?
  - Does the company know which parts of its supply chain are most water-intensive?
  - ♦ Is the company aware of how much water is used or discharged in association with its products and services?

### 2. Has the company assessed the business risks associated with its water footprint?

- a) Has the company evaluated water risks associated with its direct operations?
  - How are the company's direct operations dependent on quantity, quality, timing and cost of water supply?
  - ♦ What is the nature of the company's water rights and legal obligations with regard to quantity, quality, price, reliability and duration of water supply?
  - What percentage of the company's direct operations is located in water-stressed or ecologically sensitive regions? Is water demand growing in those regions?
  - What percentage of the company's direct operations relies on energy sources that require large amounts of water to produce?
  - What percentage of the company's direct operations is located in the areas where local population lacks access to clean and affordable drinking water and sanitation?
  - What is the water infrastructure situation and water management capacity in regions with key operations?
  - How does the amount and source of the company's water withdrawals impact local communities and ecosystems?
  - How does the quantity and quality of wastewater discharges impact local communities and ecosystems?
  - ♦ What is the quantity/quality of the company's wastewater discharges in relation to permitted levels and/or industry averages?

### b) Has the company considered water risks related to its extended supply chain?

- → How might the company's supply chain be affected by changes in water supply, quality, reliability, and price?
- What percentage of the company's supply chain is located in water-stressed or ecologically sensitive regions?
- + Has the company considered water-related regulatory risks of key suppliers?
- What percentage of the company's key suppliers relies on energy sources that require large amounts of water to produce?
- c) Has the company considered water risks related to its products and services?
  - → How are the company's products and services dependent on quantity, quality, reliability and the price of water supply? How do they perform in relation to competitors?
  - What percentage of the company's product users and customers is located in water-stressed or ecologically sensitive regions? Are those customers and users located in regions with growing water demand?
  - Do the company's services and products have potential impacts on water resources when disposed of or recycled?
  - ♦ How will water supply, quality, and reliability in the company's key markets be potentially affected by climate change?
  - What percentage of the company's direct operations and supply chain are located in areas where the local population lacks access to clean and affordable drinking water and sanitation?
  - → Has the company considered water-related regulatory risks of its products and services?
- d) Does the company have contingency plans to respond to water risks, such as supply disruptions, price increases, more stringent regulations, etc.?
  - ◆ Does the company conduct contingency planning for regions with key operations?
  - ◆ Does the company have contingency plans to respond to supply chain disruptions or raw material price increases due to water issues?
- e) Has the company assessed how climate change will affect water availability, reliability, price and quality?
  - → How might the company's direct operations be affected by changes in water supply quantity, quality, and reliability due to climate change?
  - Does the company assess how its raw material supply and supply chain may be affected by change in water supply quantity, quality and reliability due to climate change?

- Does the company assess how users of its products and services may be affected by change in water supply quantity, quality and reliability due to climate change?
- ♦ How might water price, permits and water quality regulation be affected by climate change in key places the company operates?
- 3. Does the company engage with key stakeholders (e.g., local communities, non-governmental organizations, government bodies, suppliers, employees) as a part of its water risk assessment, management, and long-term planning?
  - Does the company consult with local communities and non-governmental organizations regarding water impacts as it considers where and how to site or expand its operations?
  - Does the company work with local governments, businesses and communities to develop and implement integrated watershed management in locations with key operations?
  - ◆ Does the company collaborate with governments and communities to address issues related to access to drinking water and sanitation?
- 4. Has the company integrated water risk into its overall business planning and governance structure?
  - a) Does the company have a water management policy and plan?
    - → Has the company's top management (i.e. CEO and board) publicly expressed its commitment to sustainable water management?
    - Has the company made water management the responsibility of a direct report to the CEO and ensured that a board-level committee has water management as part of its mandate?
    - → Has the company formed an integrated water-energy team staffed by a representative of every business function that uses significant amounts of water or energy, or has the potential to pollute water?
    - → Has the company developed water management programs with specific priorities, tasks, measures and quantified performance goals based on the company's water, energy, and carbon footprints and impact assessments?
    - → Does the company have a system that promotes continuous improvement in water management and performance?
  - b) Does the company meet or exceed regulatory requirements for water use and quality?
    - Does the company meet or exceed regulatory requirements in its direct operations?
    - ◆ Does the company work with suppliers to make sure that they meet or exceed regulatory requirements for water use and quality?

- c) Does the company's water management planning integrate the impacts of climate change on water resources?
  - → Does the company consider impacts of climate change on water for siting or investment decisions?
  - ◆ Does the company consider the energy implications of water management plans and activities?
- d) Does the company develop or invest in business opportunities that address water issues?
  - ◆ Does the company develop and provide solutions to water scarcity and quality, such as water efficiency or treatment technologies, water-efficient products, etc.?
  - Does the company apply best available technologies to improve water efficiency or wastewater quality?
  - ◆ Does the company consider energy implications of measures and solutions to water issues?
- 5. Does the company disclose and communicate its water performance and associated risks?
  - a) Does the company report and communicate its water policies and management plans?
  - b) Does the company report its water performance, using broadly accepted metrics or indicators, such as those provided by the Global Reporting Initiative?
    - → Does the company report its water use/discharges for direct operations?
    - Does the company report water use/discharges at the regional or facility levels?
    - ◆ Does the company report water use/discharges for key suppliers?
  - c) Does the company disclose water-related risks in its 10-K or other financial filings?