
3rd International Conference On
WATER 2018
WATER MICROBIOLOGY
WATER SUSTAINABILITY & REUSE
TECHNOLOGIES
Rejuvenate Innovation in WATER
DECEMBER 03-04 | 2018
CHICAGO | USA

WATER

A VITAL MOLECULE FOR LIFE

Water for All comprises the production of drinking and industrial water, and the purification of wastewater at a minimum cost. The scope of this market is estimated globally at $ 65-75 billion per year. The strong growth of this market goes hand in hand with the rising global need for fresh-water as a source of drinking and industrial water.

New wastewater purification technology is needed to be able to provide a sustainable, good quality supply of water without burdening the environment. The demand for this technology is in part driven by more stringent legislation and higher quality standards.

Water & Energy focuses on making the processes for the energy production industry more sustainable. It also focuses on new forms of clean energy based on water technology.

The use of water in the energy sector continues to rise. With the growth of the world's population and the growing demand for energy, this trend must be reversed. Alternative forms of energy generation based on water technology are expected to contribute to the transition from fossil fuels to clean energy.

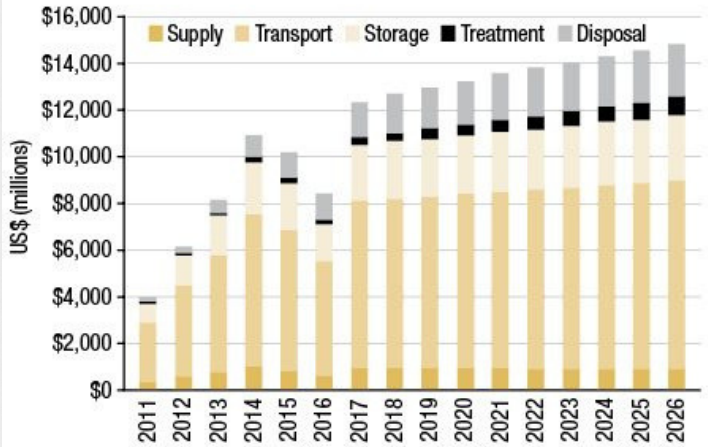
As an extension of the agriculture and horticulture sectors, the food industry is facing the challenge of dealing efficiently with scarce raw materials. It needs to make processes more sustainable as a condition for a license to produce as well.

Water & IT focuses on expanding the efficiency of water technology by checking water quality using automatic sensing & monitoring. It also focuses on optimal control of the water chain (process control). This offers opportunities to significantly improve the processes of water treatment plants. It creates opportunities for a decentralized fit-for-use water treatment as well.

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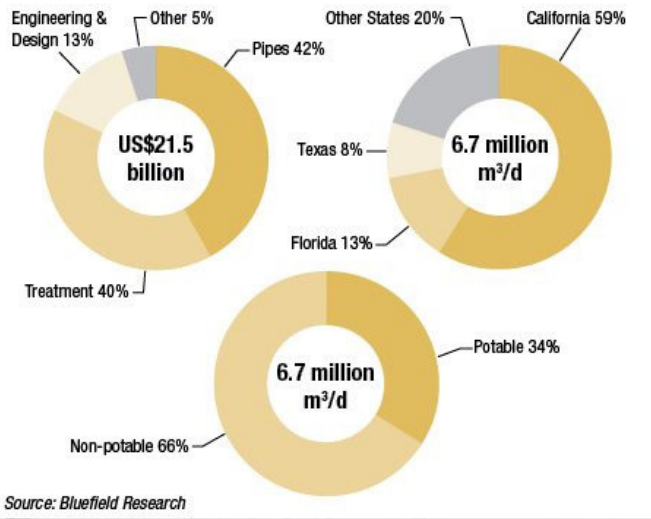
MARKET ANALYSIS

Figure 1: U.S. Hydraulic Fracturing Water Management & Services Spending by Activity (2017-2026)



Source: Bluefield Research

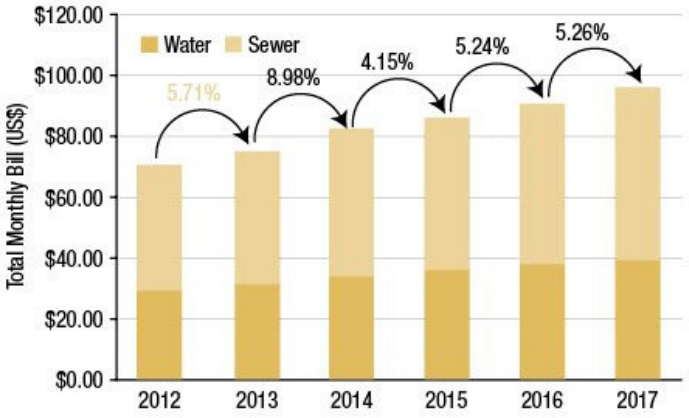
Figure 2: U.S. Municipal Wastewater Reuse Landscape (2017-2027)



Source: Bluefield Research

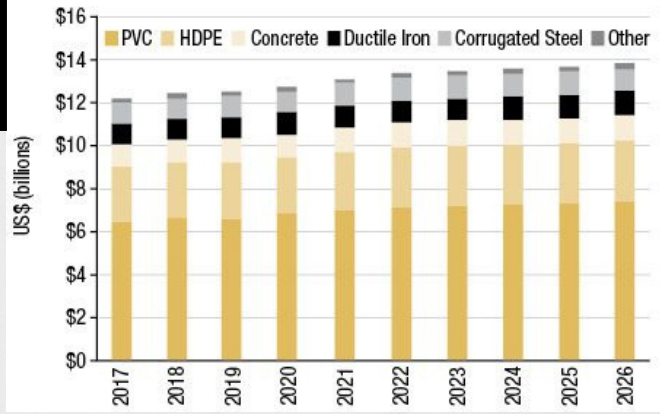
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Figure 3: Utility and Wastewater Bills for U.S. Cities (2017)



Source: Bluefield Research

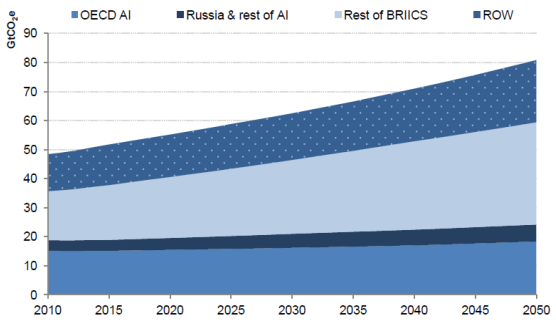
Figure 4: U.S. Municipal Water & Sewer Pipe Investments by Material Type



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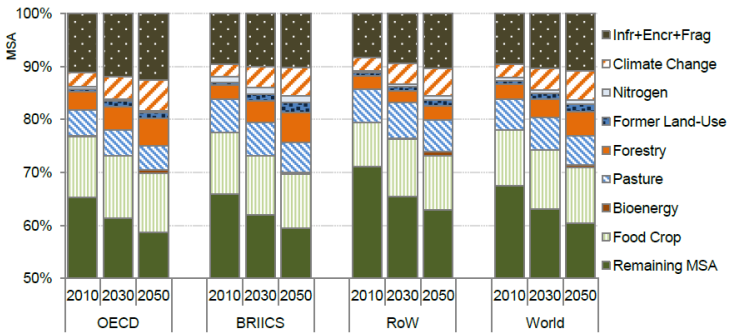
Figure 1. GHG emissions by region: Baseline, 2010-2050



Notes: "OECD AI" stands for the group of OECD countries that are also part of Annex I of the Kyoto Protocol. RoW = rest of the world. $GtCO_2e$ = Giga tonnes of CO_2 equivalent
Source: OECD Environmental Outlook Baseline; output from OECD ENV-Linkages model.

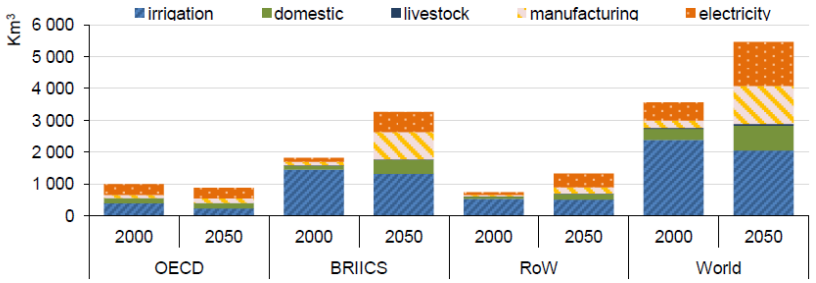
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Figure 2. Effects of different pressures on terrestrial MSA: *Baseline*, 2010 to 2050



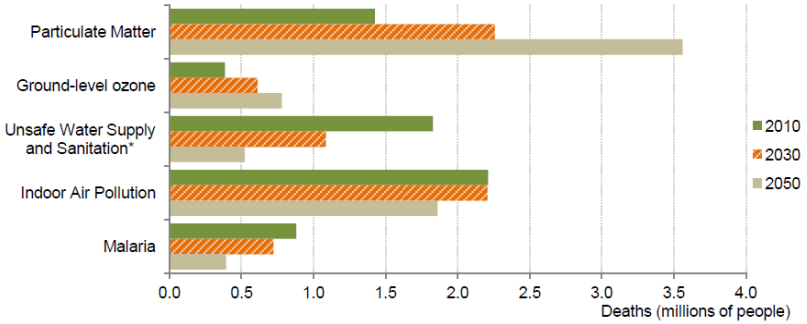
Notes: MSA of 100% is equivalent to the undisturbed state; See Chapter 3, Table 1 of the *Outlook* report for further explanations. RoW = rest of the world. Infra+Encr+Frag = infrastructure, encroachment and ecosystem fragmentation,
Source: OECD Environmental Outlook Baseline, output from IMAGE suite of models.

Figure 3. Global water demand: Baseline, 2000 and 2050



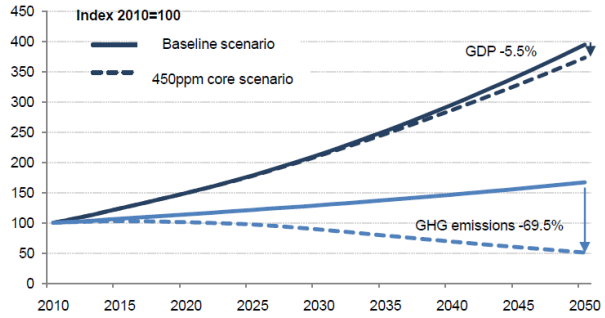
Notes: This graph only measures blue water demand (see Box 5.1 of the *Outlook* report) and does not consider rain-fed agriculture. RoW = rest of the world
Source: *OECD Environmental Outlook Baseline*; output from IMAGE suite of models.

Figure 4. Global premature deaths from selected environmental risks: Baseline, 2010 to 2050



** Note: Child mortality only*
Source: OECD Environmental Outlook Baseline; output from IMAGE suite of models.

Figure 5. Climate change *450 Core* scenario: global emissions and cost of mitigation



Source: OECD Environmental Outlook Baseline; output from OECD ENV-Linkages model.

IT'S TIME TO GET ENGAGED WITH THE PREDICTIONS & ACT ACCORDINGLY

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COMPLETE BROCHURE

Coming Soon