

### **Key Messages**

- Ever greater demand is combining with increasingly uneven and unreliable supply to make water one of the world's most precious resources.
- **2.** Water-related conflicts are rising on a global scale. Water therefore is a vital part of our "Food Security" Investment Theme for 2022.
- **3. Infrastructure**: huge investments are necessary to build and maintain a more efficient and sustainable infrastructure.
- **4. Efficiency**: the use of water needs to become more efficient, especially in areas such as agriculture.
- 5. Invest in this theme via dedicated funds and ETFs, either with a broad approach or a focus on a dedicated area of the theme.

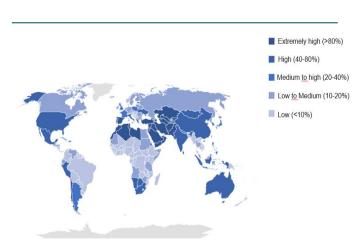
Since we call Earth the blue planet, one may think that water is plentifully available. Unfortunately this is only theoretically true. Today 97.5% of the world's water is salty water that cannot be used for drinking or farming. Only the remaining 2.5% is suitable for human consumption. However, most of the reservoirs can be found in glaciers or the Earth's poles and are thus not accessible either. In fact, only 0.3% of all water on earth is useable fresh water.

Population growth and economic development are driving a sharp rise in water demand. Beyond drinking, water is a fundamental input for growing food and economic productivity in general. Increasing global wealth is changing the patterns of water consumption. Hundreds of millions more people expect to enjoy regular showers and eat more water-intensive food.

Growing swathes of the global population want to wear clothes whose fabrics require large amounts of water for their creation, and to use electricity whose generation depends on water for cooling. On the supply side, climate change and shifting weather patterns are making the distribution of rain less predictable, as evidenced by the rising number of both devastating floods and droughts worldwide.

In fact, access to clean water is becoming a dire global challenge. This and other sustainable development issues are faced by all countries. They have therefore been explicitly included in two of the UN's Sustainable Development Goals (SDGs). Goal 6 concerns the access to water, while Goal 12 relates to the transition towards a circular economy.

#### WATER STRESS INDEX



Source: World Resources Institute, BNP Paribas

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#### Water stress on the rise

#### Food security without water is impossible

Water is a crucial resource when it comes to securing the ability of producing food and feeding populations. Via the food security channel, we therefore consider water security as a vital part of our broader security-related investment theme.

Today several regions in EMEA and Asia are facing high to extremely high risks of groundwater shortages, as a study from the think tank World Resource Institute shows. On a global scale, 771 million people lack basic drinking water services. Needless to say, this has severe consequences. The shrinking availability of water despite the rising demand is an increasing cause for conflict across the globe. Based on numbers from the Pacific Institute the amount of conflicts tripled between 1999-2008 and 2009-2019. Although not all of these conflicts result in military clashes, the death toll is rising. Only last year, at least 41 people were killed and more than 200 injured in a violent border conflict over access to water resources in the region between the two ex-Soviet republics of Tajikistan and Kyrgyzstan.

Water stress (measured as the ratio of withdrawals to supply) is projected to grow globally until 2040. In certain areas it is even expected to climb to extremely high levels of 80% or more. By 2050, total water usage is set to increase by 15% above today's levels to serve approximately 9 billion people in the world. Thus, the potential for conflicts is on the rise too. In order to tackle these challenges, immediate action is necessary.

Addressing these issues will require significant capital investments in new technologies and services, in addition to greater policy support from regulators and governments. Primarily, appropriate infrastructure needs to be built and maintained. According to the American Society of Civil Engineers, the US water infrastructure only scores a C- as water loss is a universal problem for US water utility companies. The average water loss is estimated at 16% with individual system water loss rates even exceeding 30%. An estimated cumulative investment of more than USD 1,000 bn is required to upgrade the US water system to a sustainable level and then to maintain it. The situation in Europe is even worse. The mean value for water distribution losses in the European pipe system stands at 23%.

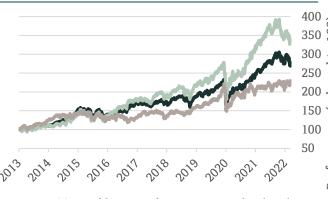
The usage of water needs to be improved as well. Agricultural activities account for an estimated 70% of the yearly global water consumption and thus provide the highest leverage for improvements. The range of possibilities is broad. More effective forms of farming, such as vertical farming, can reduce water usage by 50% for a given level of output. In traditional farming, improved watering via smart irrigation systems is another way to conserve water. Another approach could be to replace water-intensive food such as meat with alternative sources of protein. This market alone is projected to reach global revenues of up to USD 72bn by 2025.

# Water: a defensive approach to ESG investing

#### Towards low volatility and higher dividends

From a portfolio perspective, investing in the water theme can provide investors with advantages. Compared with more growth-oriented and thus more volatile ESG themes, such as energy transition, water offers a low volatility approach, that also includes certain characteristics of the value factor. Most water-related indices include a high degree of utility companies, which often offer attractive dividend yields and are less influenced by the economic cycle. Thus, the theme offers an investment opportunity which combines favourable factors in times of uncertainty. These characteristics has helped the theme to deliver an outperformance of ca 70% during the last decade. Water could be used to gain a more defensive exposure to the ESG investment theme.

# WATER OUTPERFORMED THE BROADER MARKET DURING THE LAST DECADE



—MSCI World Net Total Return EUR Index (EUR)

Solactive Clean Water Index NTR (EUR)

STOXX Europe 600 Utilities Net Return EUR (EUR)

Source: BNP Paribas, Bloomberg



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