

Water Technology Markets: Key opportunities and emerging trends



Description

The water sector is facing greater challenges than ever before: population growth, climate change, increased water scarcity, tougher environmental regulation, and dwindling public finances. As we confront these issues, only one thing stands between success and failure: water technology.

It is a subject which has been neglected over the years. The pipe, the pump and the valve, have been enough to meet our needs but suddenly investment in new technologies has become an imperative.

Water Technology Markets is your in-depth analysis of all the important developments and opportunities in the water technology sector. It aims to answer three questions:

- 1) What game-changing technologies are coming down the pike?
- 2) Where are the best growth opportunities in the sector?
- 3) What is the broader context of the water technology sector?

It is essential reading for:

Water equipment suppliers: Who is going to eat your lunch next year? How can you position yourself to make the most new developments?

Engineers and contractors: What new technologies do you absolutely have to be aware of in order to stay ahead of the game? Where will you see the best growth in future?

Investors: Beneath the hype, where are the real opportunities for investors in this sector? What are the risks and rewards?

Water Utilities: Which new technologies can radically alter our cost base? Can you give us an unbiased opinion on their actual potential?

The report divides into four sections:

1. **Market Overview:** How does the water technology market work? What are the routes the market and the methods of procurement? What is the market structure and how is it evolving?
2. **Market Drivers:** Where and why is innovation a necessity in the water sector? How is climate change affecting the sector? What is the impact of environmental regulation? Where are utilities looking to cut costs?
3. **Disruptive Technologies:** Which purport to offer a radical new solution to the challenges facing utilities? Are they likely to deliver what they promise? Which are the top ten technologies which are going to make the biggest difference?
4. **Growth Markets:** Where is the best growth to be had in the water equipment supply market? What are the dynamics of these markets? Will they continue to grow at the same rate?
5. **Water Technology Market Map:** How do the 3,000 companies which compete in the global water technology market fit together.

The report includes global market size estimates and growth forecasts for the three main growth areas:

- Disinfection: ultraviolet systems, ozonation, and chlorination
- Infrastructure: pipes (new lay and rehabilitation), pumps, and metering
- Desalination & membrane separation: reverse osmosis, thermal desalination, microfiltration and ultrafiltration

New technology themes covered:

- Energy from wastewater
- Energy from sludge
- Waste-heat recovery
- Lower-energy alternative processes
- Osmotic power
- Membrane distillation
- Renewable energy for desalination
- Electrolytic treatment
- Advances in UV technology
- Alternative disinfection technologies
- Advanced detection/monitoring and analysis
- Biological nutrient removal
- Side stream treatment – Nutrient removal/recovery
- Phosphorus recovery from sewage sludge
- Phosphorus recovery directly from wastewater
- Sludge minimisation
- Sludge pre-treatment (disintegration/destruction)
- Anaerobic digestion – co-digestion
- Electro-osmosis sludge dewatering
- Sludge drying – solar drying
- Supercritical wet-air oxidation

- Short-rotation coppicing
- Advanced oxidation technologies
- Sewer mining
- Source separation
- High recovery/zero liquid-discharge (ZLD)solutions for desalination concentrate
- Decentralised wastewater management Membrane leak detection
- Advanced membranes
- Biomimetic membranes
- Forward osmosis

Water Technology Markets has been compiled by technology evaluation specialist Paul O'Callaghan of O2 Environmental and the GWI research team. It represents nearly 2,000 hours of research compressed into 320 pages and a CD ROM. It is your window on the future of water and wastewater on this planet.

Can you have a strategy in the water business without it?

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