



MODERNWATER

# Investor relations

AIM-listed owner and operator of leading edge technologies designed to address global water scarcity problems, with products and services deployed in Asia, the Middle East and Europe (AIM: MWG).



## The Facts

### Water Shortage and Market Opportunity

- By 2025, the UN claims that two thirds of the world's population, 5.5 billion people, will live in water stressed countries.
- 97.5% of the world's water is contained within the seas and oceans, and 70% of the world's population live within 50km of the sea.
- Agriculture and industry account for 69% and 23% respectively of global water use, and shortages will worsen with economic development. Solutions such as desalination and other water-related products are key to helping alleviate this growing problem.
- The global desalination industry is predicted to grow 140% in the 10 years to 2015. This represents a compound annual growth rate of c9% for installed capacity and c13% for new capacity (GWI forecast).
- Capital investment in desalination on a global basis is forecast to total \$56.4 billion by 2015; based on current trends, half of this capital is expected to come from the private sector (GWI forecast).

## Technologies

### Manipulated Osmosis (MO)

A number of Modern Water's products draw on their patented MO process:

- **MO Membrane Desalination** technology reduces energy use by up to 30%, as well as cutting capital and operating costs. Reduction in hazardous chemicals and lower / eliminated harmful salt brine emissions are also achieved. Plants are located in Gibraltar and Oman in the Middle East where demand for clean water is high.
- **Evaporative cooling systems**, of which there are millions around the world, can be fitted with the MO technology. The improved process reduces power consumption by up to 90% as well as chemical dosing and water consumption. A proving plant is being installed in Oman in 2010.



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- The **MO** approach can also be used to:
  - Achieve **secondary oil recovery**, by extracting up to 13% additional oil from existing fields
  - Create renewable **hydro-osmotic power**, by mixing water with varying levels of salinity

#### Cymtox

- **Real-time online monitoring** device to detect the presence of water-borne toxins and warn immediately of suspicious changes. Environmental protection is the key market for the technology and first sales have already been achieved in China.

#### AguaCure

- **Electro-coagulation technology** used either to kill bacteria and other organisms or remove contaminants from waste-water streams without the use of chemicals. Commercial trials continue in the motor and water sectors.

#### PWL

- **Substitution technology** that uses salt water for flushing toilet systems, reducing the domestic requirement for freshwater by over 30%.

## Management

Modern Water's management team comprises industry executives drawn from financial, legal, management and technical backgrounds.

**Executive Chairman, Neil McDougall** is a co-founder of the Company. As Executive Chairman, his main focus is to deliver value to the Company's shareholders by shaping Modern Water's growth strategy. He is also responsible for maintaining the Company's relationship with the city. Neil has extensive experience of the water industry at an international level.

**Chief Executive Officer, Simon Humphrey** is a co-founder of the Company and has been CEO since Modern Water's inception in December 2006. Simon oversees the day-to-day running of Modern Water, ensuring the Company and its investments progress successfully. He brings a host of water industry and capital investment experience to the role, and travels to Modern Water's sites internationally to ensure their smooth operation.

#### MORE INFO:

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