



# DESAL Pty Ltd Investment Profile

## Technology Description

The production of drinking water from seawater is one of the most important problems facing us in the near future. The market for large scale desalination is growing rapidly, fuelled by government and business alike. The United Nations has labelled this century "the century of ocean water desalination" with a desalination market for 2005-2015 generating expenditure in the region of \$95 billion. Around \$48 billion will be derived from new capacity, comprising \$30 billion of cap-ex and \$18 billion of op-ex. There are 3 main technologies, reverse osmosis membrane technologies (RO), electrodialysis and thermal technologies for the desalination of water. Desal Pty Ltd is currently developing a novel process for the desalination of water based on a vapour transport system in which energy recovery can be efficiently managed to reduce the cost of the commercial production of quality drinking water.

## Value Proposition and Competitive Advantages

Professor Pashley's group at Murdoch has developed a novel vapour transport system that offers a substantial improvement on the evaporative methods currently used commercially, in terms of control, efficiency and reduced energy cost. This technology has the added advantage over existing RO systems in that expensive membrane systems are not required and therefore set-up costs are likely to be much lower.

## Current Status/ Next Steps

The technology is currently at the prototype stage of development. The initial focus for development of the technology will be towards portable desalination units for boats and has potential for design in oil rigs.

## Funding Requirements

Desal is currently seeking partners to co-develop its novel desalination technology.

## Contact Details

**Dr Patty Washer**  
Director of Commercialisation

Email: [P.washer@murdoch.edu.au](mailto:P.washer@murdoch.edu.au)  
Telephone: +61 8 9360 2633

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