

Lowering the Cost of Desalination

One third of the world's population lacks sufficient water. The World Health Organisation predicts that by 2050 over two thirds of the world's population will face severe water shortages.

The effects of water shortage are well documented: food shortage, poor health, hunger and disease.

The Technology

UNSW researchers have developed an efficient Ion Exchange (IEX) desalination technology which is superior to the current state of the art technologies such as reverse osmosis and distillation.

The patent pending technology uses a novel hybrid regeneration system utilising recyclable reagents within a thermal process.

Key Benefits

The UNSW Ion Exchange solution is:

- Energy Efficient
- Lower Cost Desalination
- Low pressure requirements
- Low temperature requirements
- Can use solar thermal energy to regenerate the IEX resins.

Applications

- Maritime Desalination
- Arid land/Brackish water



Seawater is in abundance. Our desalination technology has the potential to unlock this untapped resource and provide global water security.

The Opportunity

NewSouth Innovations are seeking a partner to license this patent pending technology and develop products which will guarantee water security for generations to come.

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