

List of EWI awarded projects for Directed RFP 07/01 (Seawater Desalination)

Name of PI / Co-PI	Participating Organisations	Abstract of Project
Novel Electrochemical Desalination Technology		
Mr Anil Jha	Siemens Pte Ltd	Siemens proposes research to develop a method for desalting seawater to meet World Health Organization (WHO) Guidelines for Drinking Water Quality with a total energy consumption of less than 1.50 kWh/ m3 of product. The research is expected to result in breakthrough advances in materials and processes that can be applied to other separation applications. Major research activities will include: development of the novel Continuous ElectroDeionisation (CEDI) technology; optimization of the new hybrid process; development of ion exchange membranes that meet performance and cost targets; evaluation of pretreatment and post-treatment options; and development of process models supported by experimental data.