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Services:

Water treatment - Water purification - Filtration - Disinfection - Desalination
- Demineralization - Water conditioning - Reverse Osmosis - Sand Filtration
- Multi media filters - Water softeners - Iron removal - Membrane filtration -
Activated Carbon adsorption - Ultra filtration - Micro filtration - Water
recycling - Surface water treatment - Seawater and well water.

From:

Peter Kearvell, Pender Island

An estate on Pender Island (population +/- 2000) uses two small lakes for its potable drinking supply. The local authority is currently seeking approval to spend Can\$ +/- 8 million to re-construct its broken system. Pender Island is surrounded by the Pacific Ocean. The local authority is of the opinion that a desalination system would increase the cost of potable water by 300%, but as far as this resident is aware no serious study has ever been done. Please prove them wrong.
(P. Kearvell is a former KLM pilot!)

Reply From: [David van Lennep](#)

To: [Peter Kearvell](#)

Sent: Friday, November 06, 2009 9:32 PM

Subject: containerized desalination system

Peter,

In general it is cheaper to treat freshwater (surface water) or brackish water than to treat seawater into drinking water.

2000 users would be about 2000 x 300 liters per day = approx. 600 m³ (tons) per day.

From your description it is not totally clear what is broken in the existing system.

Is it a leaking piping and distribution network?

Is the water treatment system not up-to-date?

Our containerized 600 m³ to 700 m³ a day system (two 40 foot containers) can cost anything from 300.000 Euro to 500.000.- Euro depending on the water intake system (is there an existing beach well) or should an open seawater intake be placed?

Please note that this system does not include any storage tanks or distribution system to the 2000 residents.

I have attached a general containerized desalination system pdf brochure.

kind regards,

David van Lennep
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