

Clean 'Green' Drinking Water

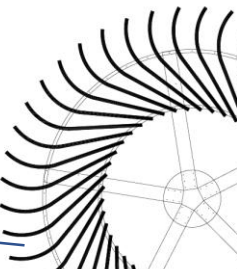
Carruthers Tidal

Penelope Carruthers

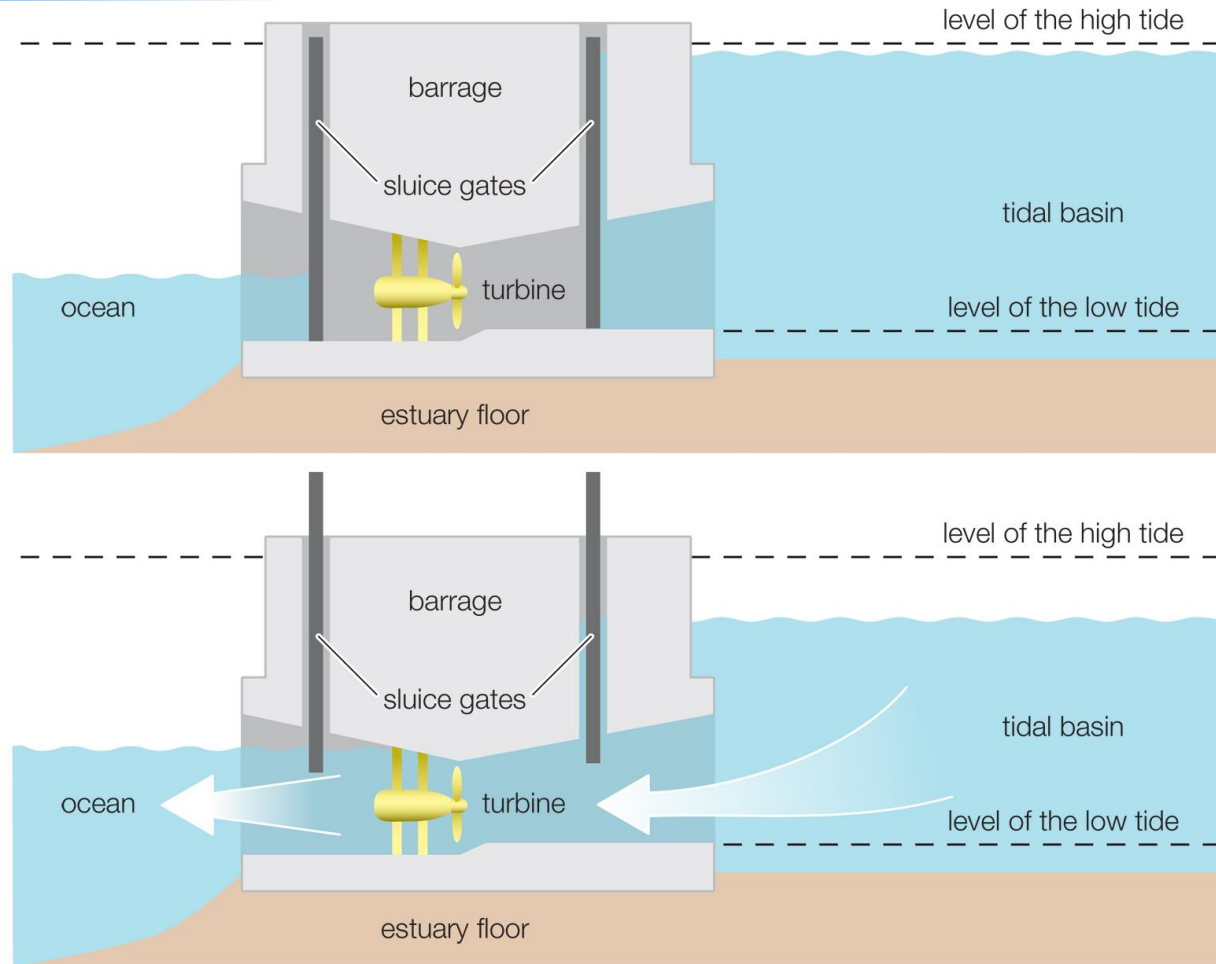
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If we could produce **fresh** water **from salt water** at a **low cost**, that would indeed be a great service to humanity, and **would dwarf** any **other scientific accomplishment**.

President John F Kennedy (1962)



Sustainable Desalination



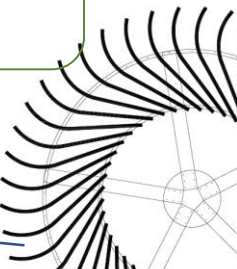
Solar Thermal

- low salt concentrations
- common usage in developed countries

Photo Voltaic Reverse Osmosis

- for high salt concentrations
- being trialled by charities in Kenya

No current technology can be described as 'Low Cost'



London

“Existing resources – from non-tidal rivers and groundwater – simply aren’t enough to match predicted demand in London.”

Martin Baggs CEO Thames Water

Beckton Desalination Plant

London’s desalination plant for emergencies only.

Energy Costs

1 tonne clean water = 4 to 7kWhrs (50p to £1)

Water for 0.9 million people

State of the art facility

Low Energy usage

Need only growing due to climate change.



Carruthers Wheel Array – cheap reliable green energy

Unique Floating System

Electricity @ ½ the cost

Green, reliable, predictable

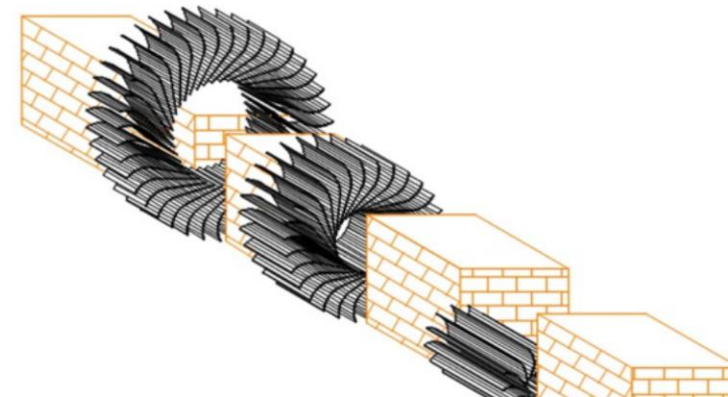
Royal Docks has per tide

Max tide = 18MW => 70MWhr

Min tide = 9MW => 35MWhr

Royal Docks

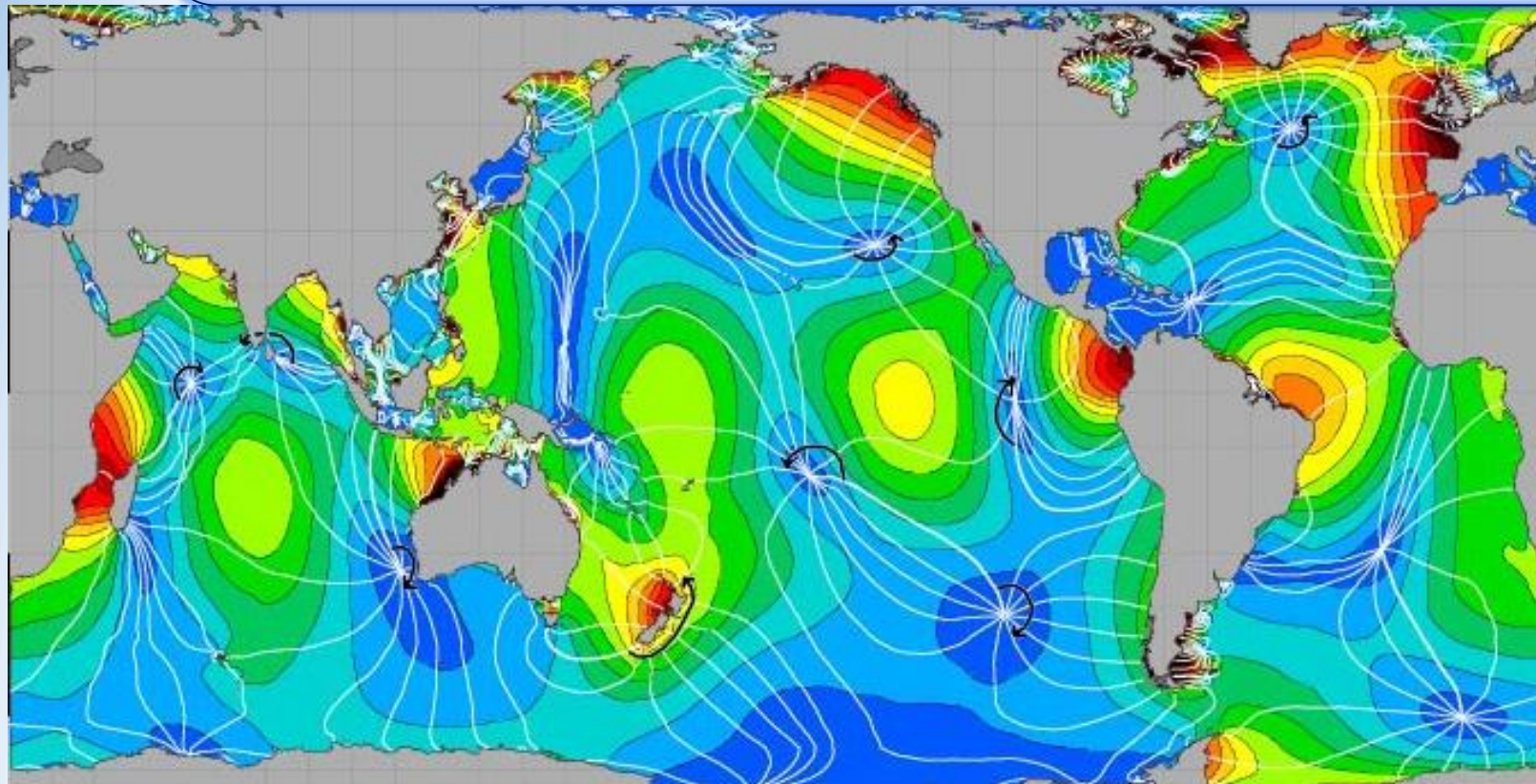
- Peak efficiency over all tidal range
- An array of wheels cheaper than 1 turbine
- Specialised technicians **not** required for maintenance



Market Opportunity

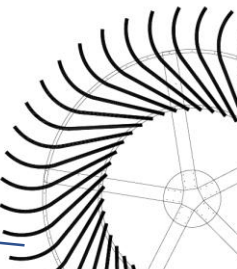
“seawater **desalination** capacity of GCC countries is expected to **grow** by at least **37%** in the next five years with **investments** of up to as much as **\$100 billion** by 2020”

Abu Dhabi National Energy Company (06/01/20)



40% of the world's population live within 100km of the coast
UN Environment Programme

NASA – Global Tidal Ranges



Carruthers Tidal

Seeking Investment to start new company, Carruthers Tidal

- Equity in Company will be held by investors and Carruthers Renewables Ltd
- All existing and new Tidal IP developed will be held by Carruthers Tidal

Bringing fresh water to all

