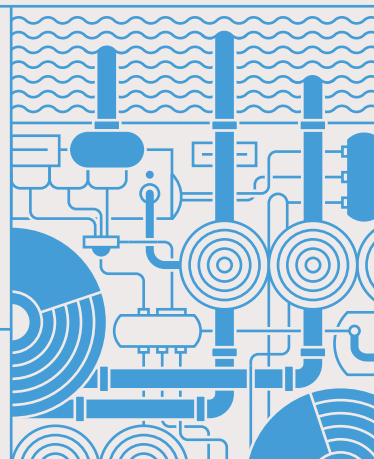




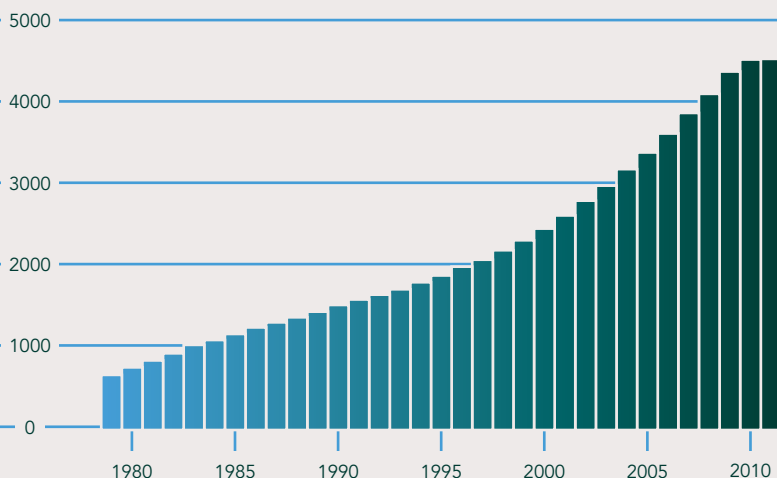
Water Desalination: Focus on Renewables



The integration of renewable energy sources in water desalination can lead to a decrease in cost and carbon footprint.

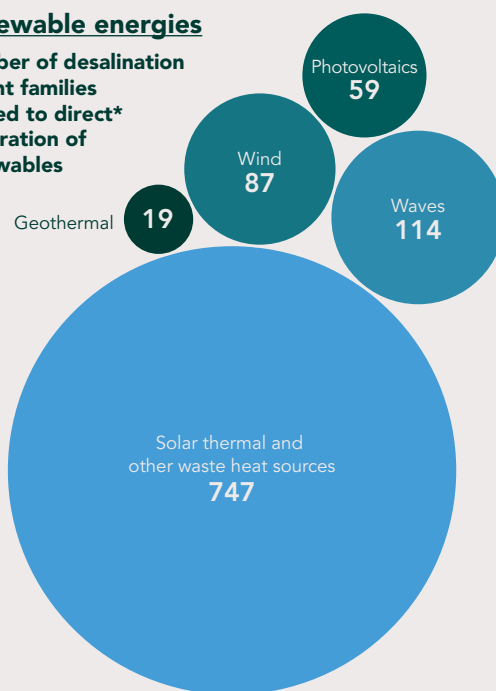
Patenting activity in desalination technologies

Number of patent families*



Renewable energies

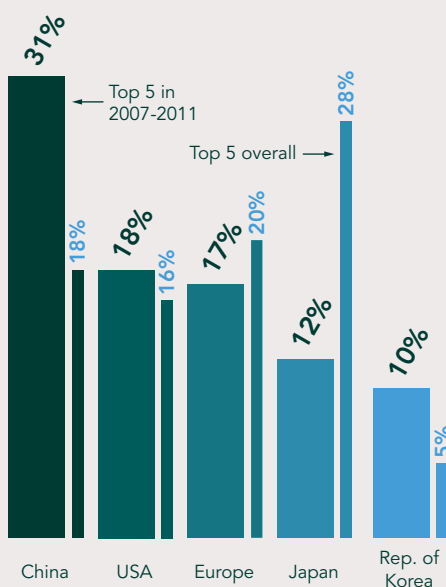
Number of desalination patent families related to direct* integration of renewables



*heat or pressure are being used directly, as opposed to indirect integration, where renewable energy generates electricity which then drives the desalination process

Top 5 origins

Share in desalination patent filings per office of first filing



20.2%

of all desalination patent families are related to direct* integration of renewables

Patenting activity in 2007-2011

25%

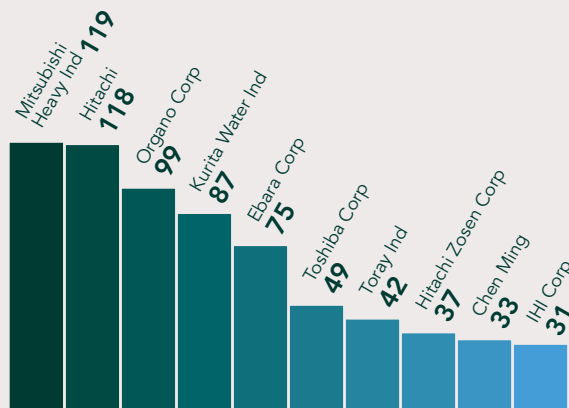
of all patent families originated in 2007-2011

31%

of all renewable energy-related patent families originated in 2007-2011

Top 10 applicants

Number of desalination patent families



Company types Examples of desalination technology owners

Industrial conglomerate **Mitsubishi** Universities **MIT** **Yale**
Early stage technologies **Enis Windgen** **ecOcean Renewables**

Renewable energy companies **Aerodyn** **Carnegie Wave**
SMEs with patents **Saltworks** SMEs without patents **SWISSInso**

*A patent family is a set of patent filings made in various countries to protect a single invention.