


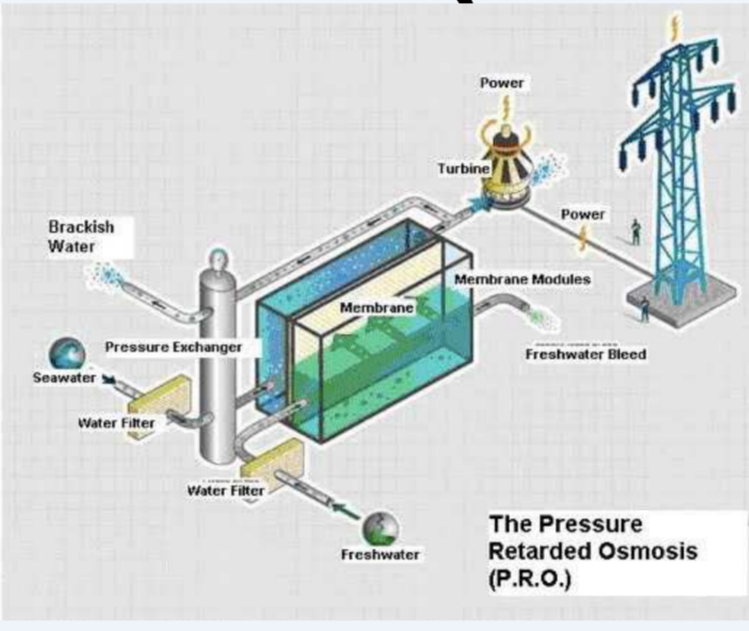

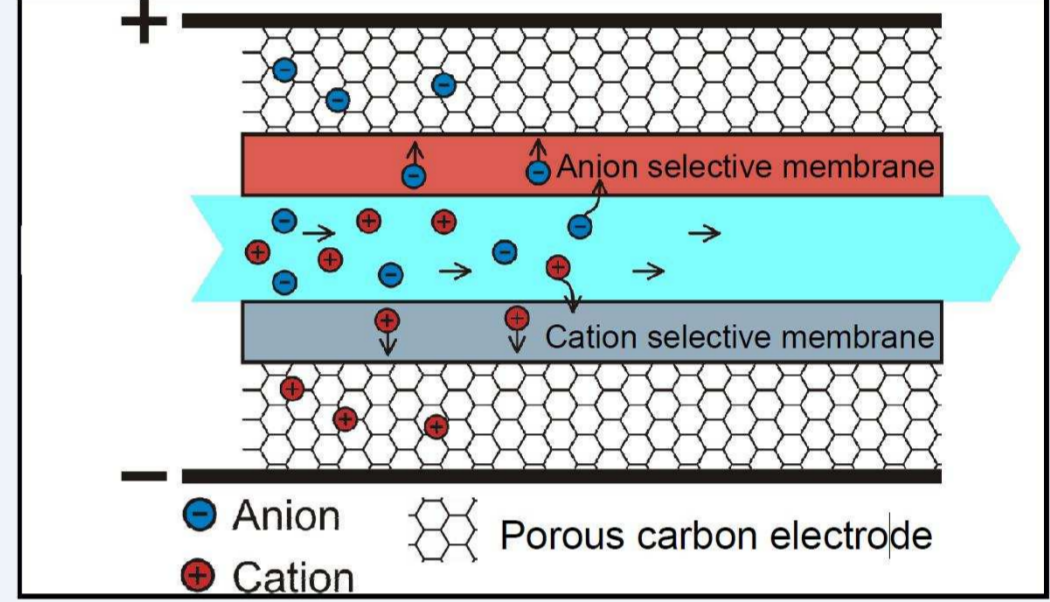


	Hydropower	Blue Energy		
Potential	<p>Worldwide 777 GW (2007) 19% of world electricity 87% of renewable energies Potential of 2.1 TW</p> 	<p>Energy of salinity gradients Potential between 1.4 and 2.6 TW</p>  <p>3 different extraction techniques</p>		
Harvest	<p>Large facilities 100 MW- 22 GW Small facilities 10-65 MW</p> 	<p>Pressure Retarded Osmosis (PRO)</p> 	<p>Reverse Electro-Dialysis (RED)</p> 	<p>Capacitive Blue Energy</p> 
Scenario	<p>Biggest project in China with a 38 GW producing dam</p>	<p>Going from a 4 kW facility to a 25 MW in 2015</p>	<p>Going from a 10-50 kW plant to an expected 200 MW plant</p>	<p>Early stage of development.</p>
Cost	<p>Hoover Dam: 36 million € for 2 GW capacity</p>	<p>Still in development stage, the cost is difficult to evaluate.</p>		
Progress	<p>Installation of small facilities</p>	<p>Development of cheaper and better membranes.</p>		
Environment	<p>Flooding of large areas with natural environment destruction. Geological damages.</p>	<p>Possible restoration of the ecological niches linked to the mixing of waters.</p>		
Social Impact	<p>Delocalization of communities on the dam construction site</p>	<p>So far no social impact predicted</p>		