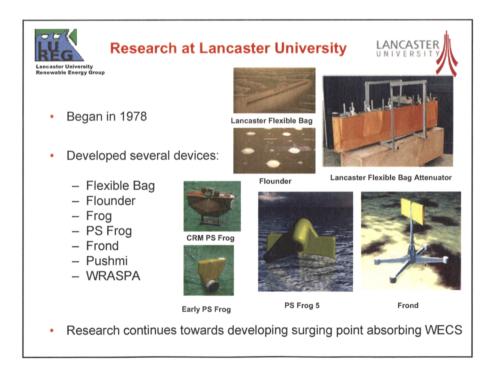
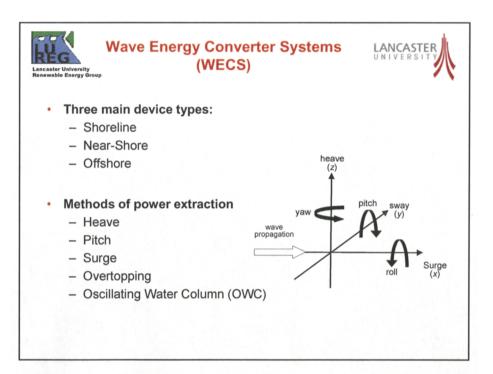


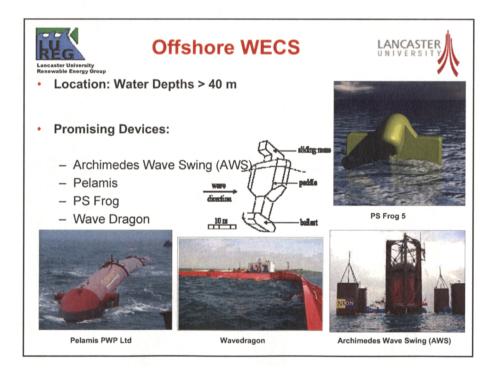
This arrangement seems likely to produce the lowest power costs (array WECs).

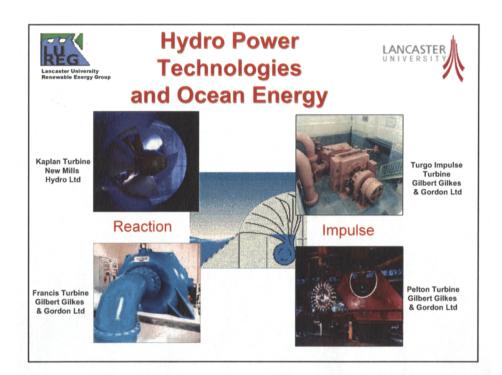


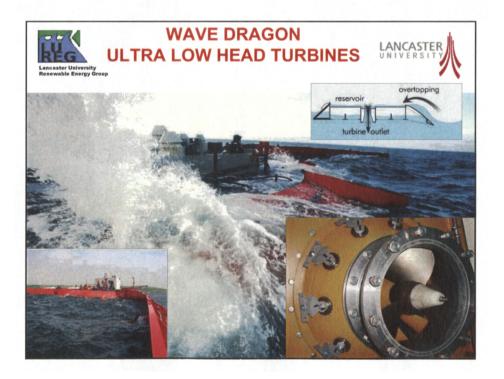


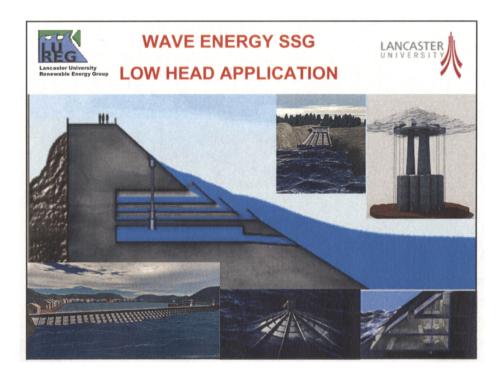




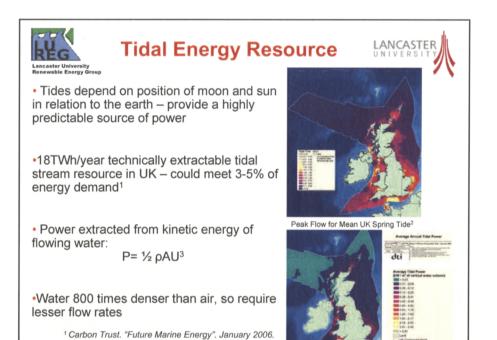






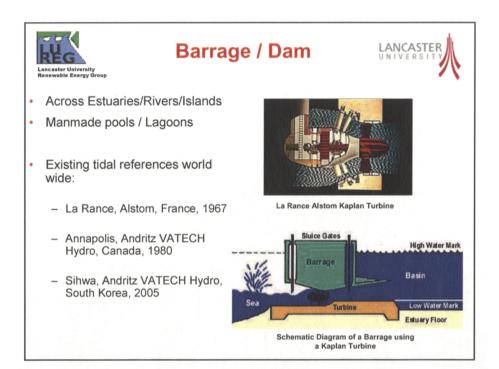


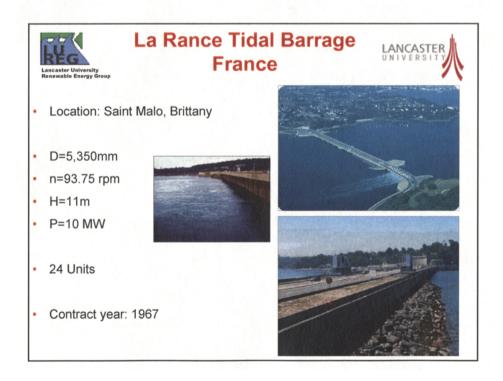


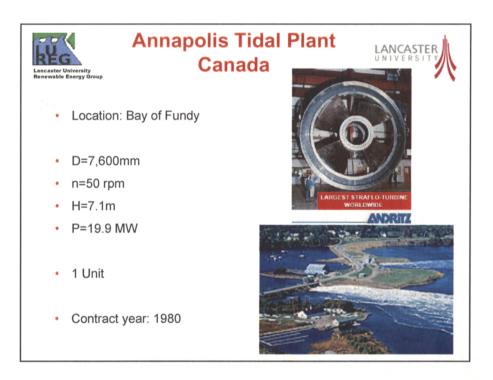


² DTI. "Atlas of UK Marine Energy Resources" 2004.

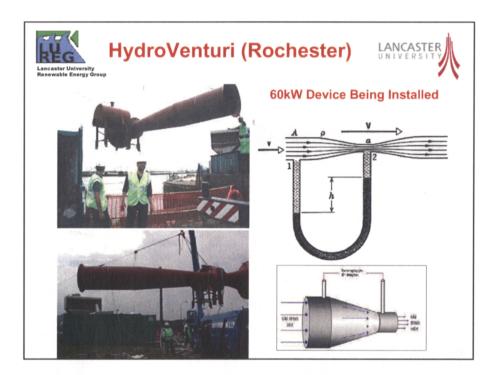
Types Of Tidal Turbine Lancaster University Renewable Energy Group Lunar Month = 29.53 Days Barrage / Dam loan ' Venturi Systems Pull of Si Oscillating Hydrofoil ٠ Pull of Moor . Vertical Axis Turbines Neap Tide (1/4 Moon & 3/4 Moon) Horizontal Axis Turbines • pring Tide Ducted Other Spring Tide (Full Moon & New Moon)

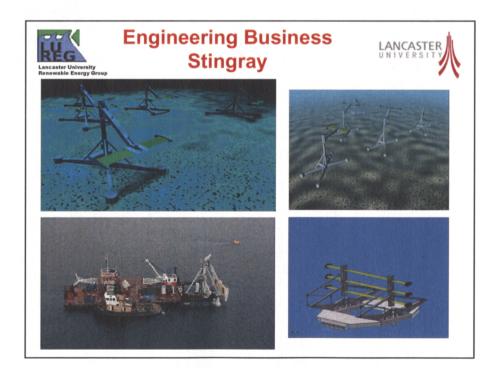


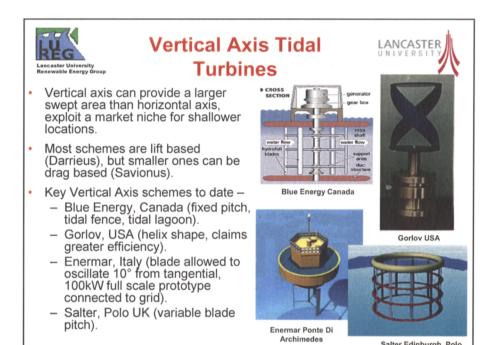




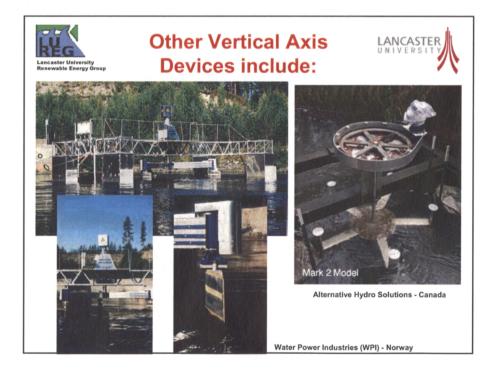








Salter Edinburgh Polo





 deployment in arrays or "farms". of hundreds of turbines









Tidal Stream Technology Lancaster University Renewable Energy Group State of the Art 1.Systems of more than 1000kW: potentially commercially viable		
2.Systems of more than 100kW		
MCT (UK) - Seaflow single axial flow rotor	300kW	2003
Hammerfest Stroem (Norway) - Blue Concept – single axial flow rotor	300kW	2003
3.Small systems of less than 100kW actually tested at sea		
IT Power / NEL / Scottish Nuclear (UK) - single axial flow rotor	10kW	1994
	150kW	2002
Open Hydro (Ireland) - unconventional ducted axial flow rotor		
Verdant Power (USA) - fixed pitch axial flow rotor	35kW	
Ponte di Archimedi (Italy) - Kobold Turbine - Darrieus rotor		2004
	40kW?	2002?
Clean Current (Canada) - single axial ducted flow rotor	80kW?	2007
4.Developers with small-scale physical models tested in laboratories		
Lunar Energy (UK) / R1000 or R1500 - ~1/20 model tank tested		
SMD Hydrovision (UK) / TiDel - 1/10 model tank tested	1MW	
Swan Turbines ~1 kW model tested		?
5. Developers with no practical testing so far		
Scottish & Southern Energy / RTVL Neptune - proposed 2MW twin axial flow rotors	2MW	?
Tidal Generation - proposed 1 MW single axial flow rotor	1MW	
Tidal Stream - proposed group of 4 axial flow rotors	2MW	
	STATISTICS STATISTICS	

