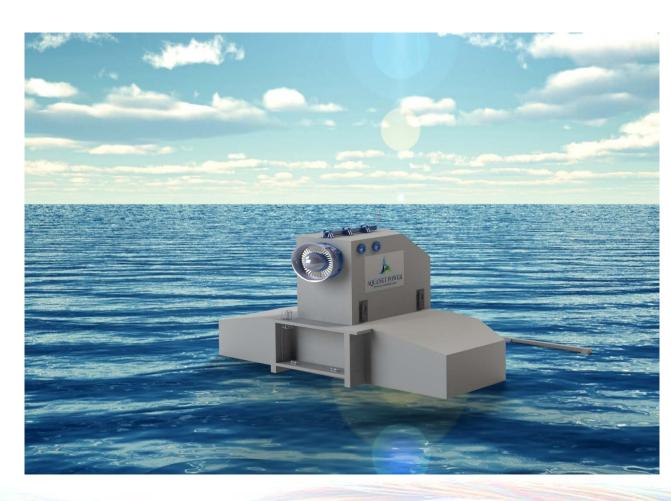




### **Aquanet Power**Who We Are

- In late 2014, company acquired the technology once known as Oceanlinx.
- Since the acquisition we have achieved further 10 granted patents with 17 more under examination internationally.
- Developed proprietary proven air turbine technology to work on any oscillating water column
- Validated and proven plug-and-play power take-off (PTO) solution, ready for commercial application

### 1MW rated Air Turbine "airWAVE"



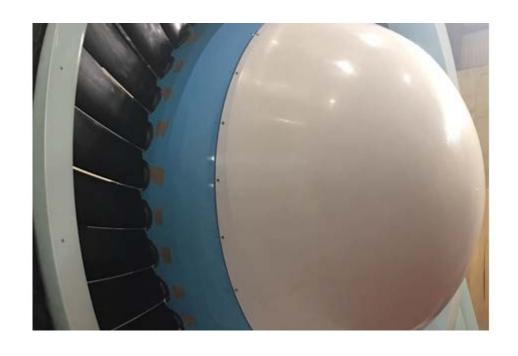


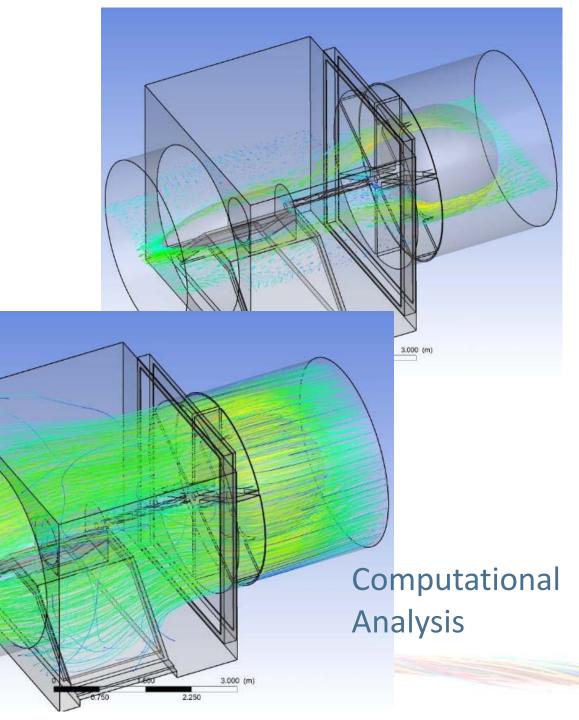
#### **Aquanet Background** Technology Key Development Achievements

#### **Technology Key Development Achievements**

- Extensive technology development over the past two years
- Highly matured and de-risked technology
- 12 granted patents with 17 more patents under examination process
- July 2017 Validated 1 MW full-scale air turbine PTO system being launched as a plug-and-play system to the market

### **Aquanet Technology** airWAVE Turbine – 1MW



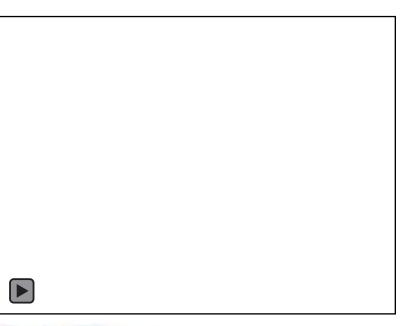


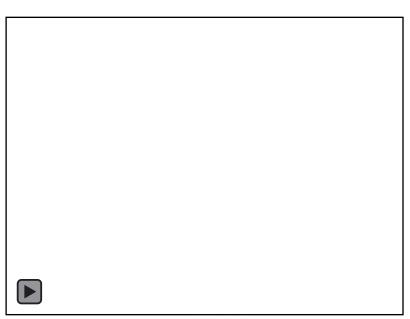
















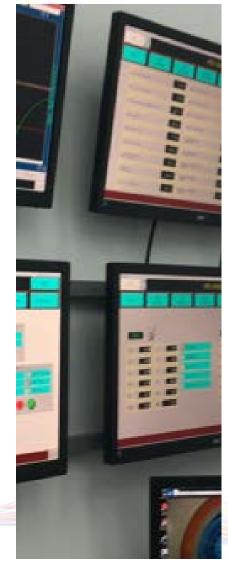
### **Aquanet Technology - 2017 Proven and Validated PTO System**



- Onshore demonstration facility in Taoyuan Taiwan.
   Capable of simulating any given wave condition in the world
- Allows us to analyse the system performance and function of prospective sites from Metocean data prior to deployment



### **Aquanet Technology - 2017 Proven and Validated PTO System**



- Onshore demonstration facility in Taoyuan Taiwan.
   Capable of simulating any given wave condition in the world
- Allows us to analyse the system performance and function of prospective sites from Metocean data prior to deployment
- Allows us to optimise yield against the system CAPEX

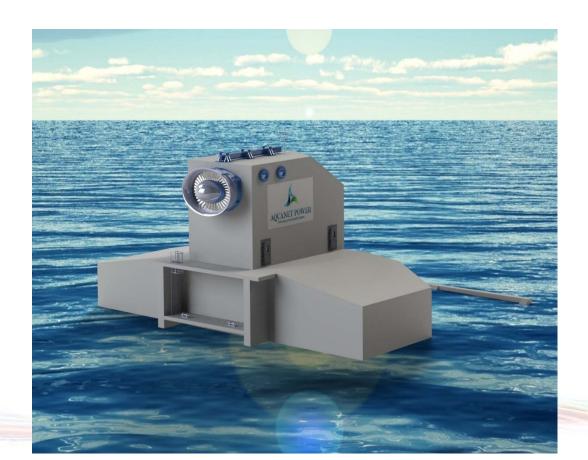


# **Aquanet Technology - Applications Shallow & Deep Water Devices - One Common PTO System**

Common Power take-off system on all devices

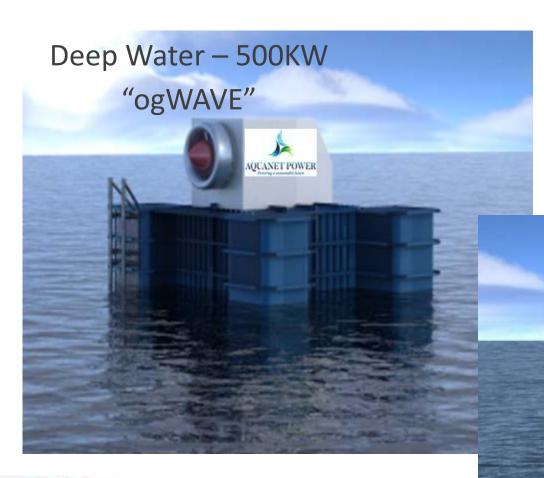


Shallow Water - 1MW "aquaWAVE"





# **Aquanet Technology - Applications Shallow & Deep Water Devices - One Common PTO System**

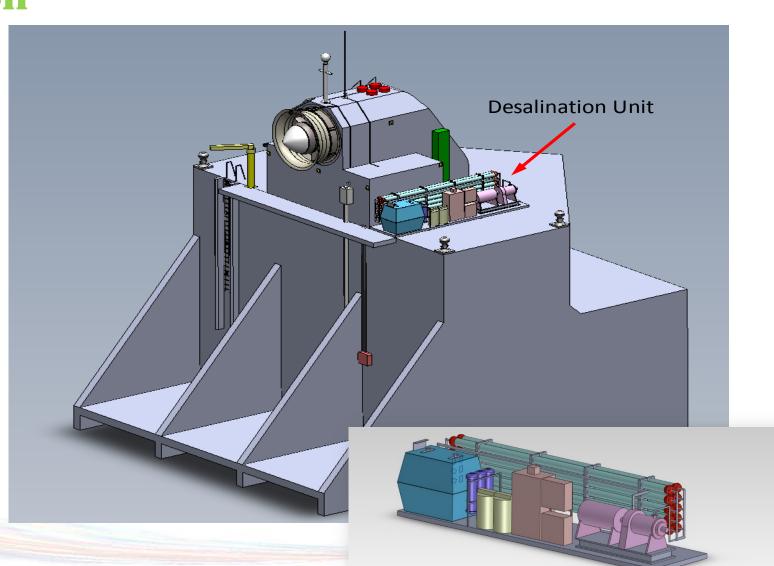


Deep Water – 3MW "bluWAVE"



### **Aquanet Technology - Applications Desalination Solution**

- Off the shelf plug and play reverse osmosis plants
- Ideal for remote locations
- May prove more attractive to produce water than electricity
- Capable of producing fresh water at \$0.0002/ litre





### **Aquanet Technology - Applications**

#### **Coastal Defense Walls and Jetties**



### **Aquanet Technology - Demonstration**

#### **Demonstration Project - Nuclear Plant 2 Taiwan**



aquaWAVE and Wind Turbine Hybrid

- Under development by project partners AAG
- Combined output of 2.3GWh per year
- 100% remote controlled
- No mooring or anchoring needed.
- Sits on its own weight on the seabed
- No moving parts under the water with no contaminants



### **Aquanet Technology - Projects Array Project - 10MW Wave and Offshore Wind Hybrid**



- Under development by project partners AAG
- 10MW Wave and Wind Offshore Hybrid generation system
- Strong synergies between equipment and control system
- Extremely attractive levelized cost of energy.



# Investment Level – Scotland Project 3MW Wave Project, EMEC Scotland - USD\$14m







## Investment Level — Scotland Project 3MW Wave Project, EMEC Scotland - Returns

Total project cost	USD\$14M
Project life	30 Years
Average output	7.5GWh/ Annum
Breakeven	XXXX XXXXX
IRR in addition to the residual value	XXXX XXXXX

#### **Project Status:**

- 1. Construction partners sourced
- 2. Consents mostly in place
- 3. Support for \$500K obtained via grant
- 4. Construction start: late 2018
- 5. Operations start: mid 2020

## Wave Energy Global Market USD\$4 trillion / Year





## **Aquanet Technology - Economics Levelised Cost of Energy (LCoE) Comparison - 100MW**

LCOE Comparisons (USD/kWh)		
	Utility Scale Project (100 MW)	
Aquanet 'aquaWAVE' device	0.127	
Solar Photovoltaic	0.170	
Concentrating Solar Power (CSP)	0.215	
Wind Offshore	0.145	
Wind Onshore	0.090	

Ref: DECC (UK)

NREL (USA, by Black & Veatch)

IRENA (USA)

MOEA (Taiwan)

Aguanet Cost Model



### Thank you!