



# Lessons Learnt Report

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<b>Lead organisation: Wave Swell Energy Ltd</b>	
<b>Project name: Wave Swell Energy – UniWave200 King Island Project</b>	
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# Lessons Learnt

## Lesson Learnt 1 – Weather windows and offshore work

**Category:** Technical / Commercial

The opportunity was taken when a suitable weather window presented itself to tow the unit to King Island without having completed 100% of the electrical works. In hindsight we may have been better to stay in Tasmania until all works were completed. However, this did work and we will never know if another suitable timely weather window would have presented itself.

## Lessons Learnt 2 – Material handling

**Category:** Technical

A davit, knuckle boom crane with a winch of some sort is a real benefit. We have managed without but would have been great. However, the conditions out there are very corrosive, and even our small pumps and generators are doing it tough. We have a RIB which is the ideal transfer craft. If a larger operation, an anchor handling utility vessel would be the solution.

## Lessons Learnt 3 – Mooring lines

**Category:** Technical

Chains on the leading mooring lines for the first 7 to 10m from the device are a must and have now been modified in this way. The dyneema was susceptible to breaking down in this dynamic area.

## Lessons Learnt 4 – WHS and Access and Egress

**Category:** Technical/WHS

A WHS consultant experience in the marine industry would have been very valuable from an early design stage. This would have assisted in providing the appropriate documentation and guidance on access and egress systems. Some of the advice provided to WSE was not suitable or thorough enough.

## Lessons Learnt 5 – Scour

**Category:** Technical

Although this was assessed by multiple parties the extent and rate at which the unit scoured caught everyone by surprise. We now understand better how and OWC scours and will learn more over the coming 12 months, this should assist in the design of future units.