

# The Evolution of the Case for Reuse and Repurposing of Subsea Equipment through Decommissioning

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## Who are we?

### Working in the Subsea Environment

J+S Subsea provides proactive, responsive and cost-effective solutions for design, engineering, operational support and maintenance of subsea equipment, primarily related to the Subsea Production Control market

## HISTORY

- The original J&S established in Kent in 1959
- Started Aberdeen operation around 2002 and SEA acquired J+S in 2014
- J+S Subsea formed from a management buyout of Aberdeen Subsea Engineering Operation
- 2nd Nov 2020 got keys to Midmill, Kintore
- Acquired all assets and IP – RRC Controls

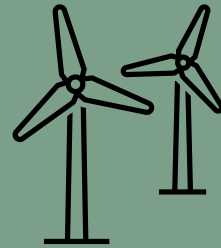


**For a small company, we have come a long way in leading the way with our ESG story**



# “Leading the way in subsea sustainability: Our ESG story”

## ENVIRONMENT



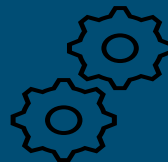
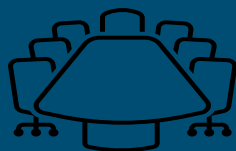
- Sustainable practices in our operations
- Minimizing impact on marine habitats
- Reducing carbon emissions and waste generation
- Supporting renewable energy sources and technologies
- Maintaining Legacy Locker, resource efficiency and contributing to a circular economy
- Offers carbon savings

## SOCIAL



- Fostering a culture of safety and respect in the workplace
- Fair treatment and equal opportunities
- Employee development programs
- Supporting local communities
- Transparent communication with stakeholders

## GOVERNANCE



- Ethical and transparent business practices
- Corporate governance and accountability
- Compliance with laws and regulations
- Monitoring and reporting on ESG
- Stakeholder engagement

Completed

In Progress





Subsea Equipment  
that does not cost  
the earth



## LEGACY LOCKER

J+S Subsea has developed our Legacy Locker initiative in order to contribute to the circular economy and address problems with critical supply items

**The Legacy Locker encompasses the following while meeting the circularity gaps:**

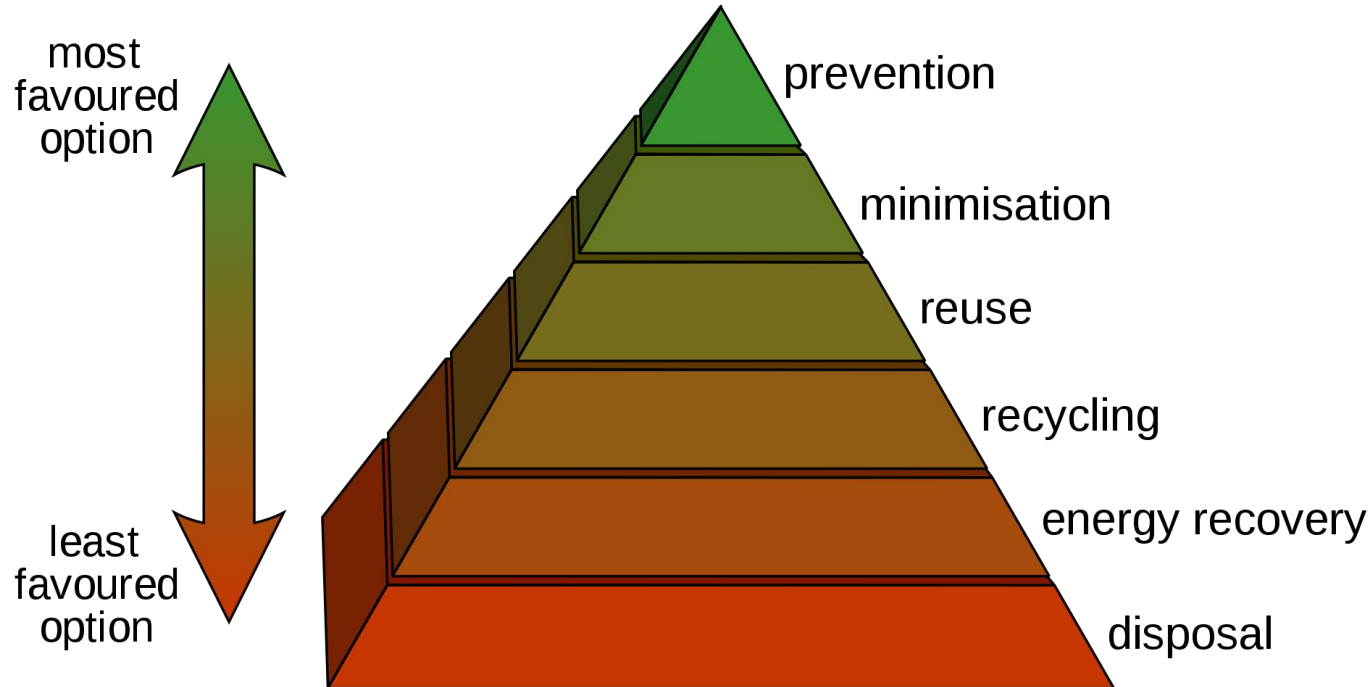
- It is an engineering service to test, refurbish, re-certify or reverse-engineer obsolete items owned by J+S or our clients
- It is a brokerage service for higher value items owned by Oil & Gas and service companies
- It has the capacity to expand in equipment type and geography
- It helps you overcome the interface, supply and support problems that have challenged the industry over many years
- We can offer carbon savings for our clients

## The Circularity gap report produced by Zero waste Scotland highlights a glaring gap of 98%

- While representing only 0.073% of the world's population, Scotland generates a total of 119.4 million tonnes of materials/year i.e. 0.1% of the globe's virgin material use
- In 2018, the country consumed 117.8 million tonnes of virgin materials—around 21.7 tonnes per capita, 2x the global average of 11.9 tonnes
- Extraction footprint, 22.8 tonnes/person, exceeds its material footprint, 21.7 tonnes/capita

We are already following couple of recommendations from the report – 1) championing circular manufacturing and 2) advancing circular decommissioning

# How are we meeting the gaps?



- We reuse subsea equipment
- We operate at the top three tiers of the triangle
- We make direct carbon savings through reuse of equipment
- Original purpose was to solve obsolescence late-life issues
- We contribute directly to CO<sub>2</sub> savings by preventing material going for recycling and disposal.



## Case Study on Subsea Control Module Mounting Base



Here is Subsea Control Module Mounting Base that was unused from a Capital Project. J+S designed and remanufacturing it to our clients' requirements where, not only did this reduce the cost and the lead time for our client, but it also generated huge carbon savings.



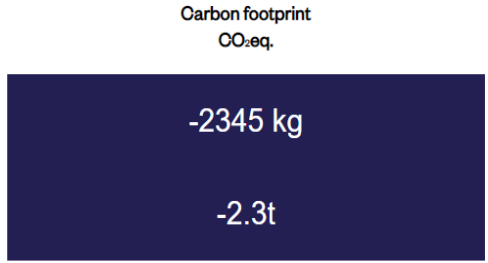
- Repurpose of unused Capital Equipment
- Reengineering of the design
- Remanufacturing of the equipment

## J&S Subsea Limited's total impact per year

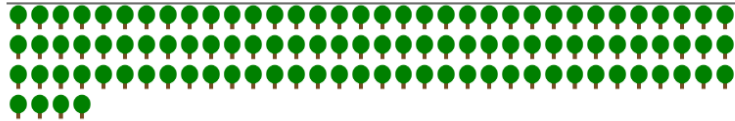
eco-costs of human health euro	-54.81
eco-costs of eco-toxicity euro	-376.6
eco-costs of resource depletion euro	-485.9
eco-costs of carbon footprint euro	-288.4

Impact per Subsea control module mounting base (SCMMB)

Impact of 1 times Subsea control module mounting base (SCMMB)



## Equivalent to



106 trees

0 Average humans



0.3

times driving a car around the world



2

passengers flying London-New York



5

barrels of oil burnt



1

EU households annual electricity



0.5

elephants mass (5t) of CO<sub>2</sub>



0.4

hot air balloons (2800 m<sup>3</sup>) of CO<sub>2</sub>

- 76% reuse of existing material
- Only 8% of the original material went to waste
- Total climate impact for materials savings (only) -2345 kg CO<sub>2</sub> Equivalent to 106 trees
- Retain local skilled jobs
- Feed directly into client Scope 3 reporting
- Help sustain UK Oil and Gas production

- We still do what we have always done
- We still have the challenges we had few years ago
- Energy Transition and Net Zero have brought real focus
- We see a lot more engagement and will to succeed
- Prevention, Minimisation, and Reuse work very well within the Legacy Locker model
- Perhaps it can be an exemplar for other organisations that want to do the right thing

Thank you for listening