

Decommissioning and circularity

Subsea Expo 24

Sam Long February 2024

Decom Mission



Subject Matter Experts in all things decommissioning

Not For Profit trade association, membership based

Circularity has long been a theme

- · Signposts for the future, e.g. Zero Waste Scotland relationship
- Active partner in Coalition for Wind Industry Circularity (CWIC)



Circularity drivers – closed loop economy



Macro

- Climate Change CO2 footprint
- Critical material awareness
- Deglobalisation of supply chains
- Dependency and security of supply

Micro

- Speed of service
- Economics
- Employment and industry

Significant change in economic models is emerging



Coming your way



- Energy Transition increases focus on material consumption and energy efficiency
- Legislation, e.g. EU Carbon Border Adjustment Mechanism (2026)
- Shareholder/stakeholder expectations, ESG
- Wealth and job creation
- Competitive advantage, but not easy

Time is now to redesign product, process and business



Existing practitioners: J+S



J+S Subsea

- Recovery, remanufacture and recertification of subsea equipment
 - Control modules, jumpers and umbilical's
 - Legacy Locker portal for sale/trade
 - Impact forecasting for CO2 calculations
- Current SOW: adaptation of an existing SCM running tool held in LL stock
 - Cost and schedule savings
 - Some modification of latching mechanism

Better visibility is an enabler to circularity



Existing practitioners: JLT



John Lawrie Tubulars

- Repurposing of tubulars for piling and geo technical products
- Convert OCTG (casing, drill pipe and other) for use in civil engineering
- Some remanufacturing "upcycling"
- Proven business model, European wide leaders

Think lateral – reuse in a different sector maybe more readily realised



Existing practitioners: ASCO



ASCO Limited

- Numerous projects striving to repurpose
 Concrete Mattresses with mixed results
 - Recycling is easy, 98%
 - Repurposing is difficult and labour intensive
 - Applications in construction and agriculture are apparent, but **profitable** execution is challenging

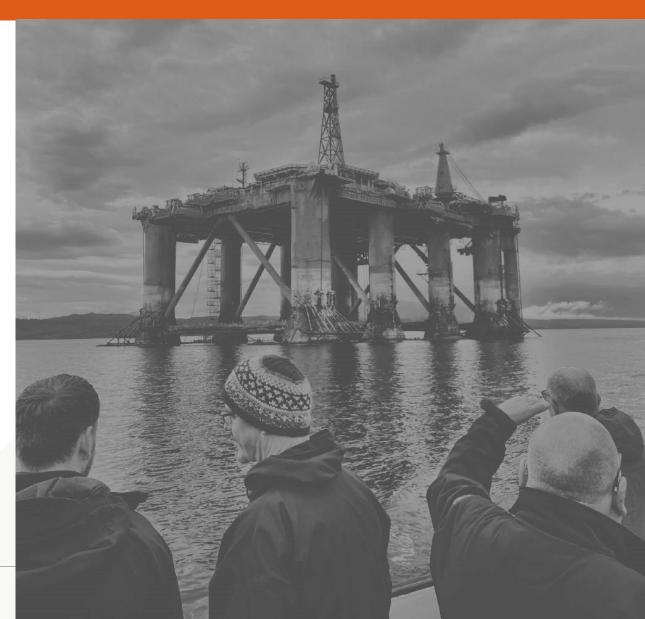
A "concrete catastrophe"



Existing practitioners: Liberty Industrial



- Northern Producer, former drilling and production unit
- Dismantlement, Kishorn Port Limited
- 12000t structure
- What is waste and what can be reused?
 - Gas Turbines x5
 - PLC systems and cabinets
 - Diesel and methanol stocks
 - Lifeboats



Existing practitioners: other

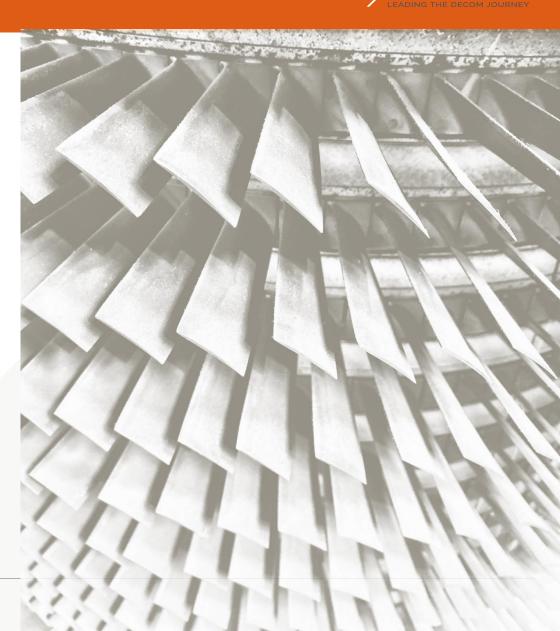


Alba Power

 Repurposing, reuse and remanufacturing of aero derivative gas turbines

AF Offshore Decom

- Reuse of steel plate from FPSOs
- Nordic Circle structural and piling applications
 Phoenix Decommissioning
- Successful repurposing of concrete mattresses
- 4000t / ~£250k savings for end user
- Investigating structural use of manifolds





Thanks



- www.decommission.net
- Sam.long@decommission.net
- +44(0)7591599322