



Onshore Disposal for the Offshore Decommissioning Market



Recycling of subsea umbilical, risers, and flowlines

AusdecCom have entered into a 50/50 partnership with K2 Polymers for the recycling of subsea umbilical, risers, and flowlines (SURF) from decommissioned oil and gas fields in Australia and New Zealand. Our services will cover the following in partnership with our onshore supply chain:

- Quayside operations for the load-in of the removed SURF from offshore vessels
- Environmental controls at quayside from residual materials during downsizing and transport preparation
- Assessment, quarantine and management of disposal of SURF contaminated with hazardous materials (NORMs)
- Onward transport logistics
- Dedicated SURF recycling facility able to achieve 98% recycling
- Recovered raw materials end markets, ferrous, non-ferrous and polymers
- End to end waste tracking and environmental close out reports



AusdecCom's Contracting Strategy

The table below provides an overview of the main differences (and similarities) and where AusdecCom is positioned to manage the onshore disposal phase depending on whether the project is a fixed structure, a subsea installation, or a floating asset:

Tier Level	Fixed Jacket & Topsides Structures	Subsea Installations	Floating Assets
	Operators use either a full Engineering, Procure, Remove and Dispose contracting strategy (EPRD). In this style of contract there is a single contractor with full responsibility for the project. A hybrid is where the operator contracts the disposal phase separately and is called EPR +D contracting strategy.	The Operators award a single contractor the project using a LOGIC style of engagement. Contracts may be for campaigns covering the full subsea asset removal or multi-phase call-off contracts promoting the use flyby contracting opportunities dependent on vessel availability.	There is a partial overlap into the accepted arrangements for ship recycling. However, this may not be possible due to the oil & gas processing train and storage complexity and levels of residual contamination including NORM more than offsetting potential yields from recovered process scrap.
1	Heavy Lift Vessel Operator Marine Contractor	Construction Vessel Owner Subsea Contractor	Ship Owner
2	Onshore Disposal Contractor 	Onshore Disposal Contractor 	Onshore Disposal Contractor 
3	Port Operator	Port Operator	Towage Company
4	Load in Contractor	Waste Management Company	Waste Management Company

Contracting strategies and supply chain integration reduces risk, generates predictability, provides HSEQ harmony, and reduces cost. In addition, the knowledge gained from collaboration leads to long term improvements for all stake holders involved.

AusdecCom's market position compliments our demonstrable in-house project management and operational delivery of complex onshore decommissioning projects. This provides Tier 1 contractors, supply chain partners, and regulators with the confidence that we can self-deliver the onshore disposal services in compliance with all applicable legislation, efficiently and with certainty.



Offshore Decommissioning



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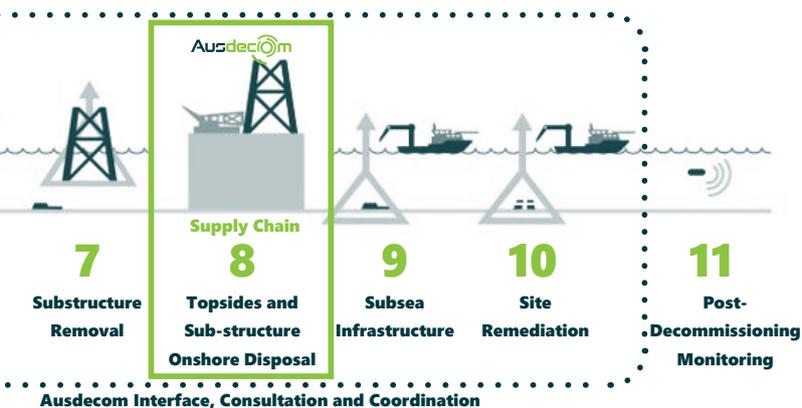
During late life operations of offshore oil and gas infrastructure, when planning for final asset retirement, Ausdec provides fully managed solutions for the onshore decommissioning disposal phase for all types of installation and subsea infrastructure.

By connecting with key port facilities and landowners near offshore fields, Ausdec includes provision of port and laydown facility, load-in preparations set down (or trailering) dismantling, and waste management in compliance with the applicable Commonwealth and State regulations.

Ausdec project manages and supplies all aspects of the services required in Step 8 of the below work breakdown. We have the capacity and capability to offer the offshore supply chain certainty when arriving at the chosen ports, through consultation and coordination between the onshore and offshore contractor supply chains, from Steps 6 to 10 to create a seamless operation as the decommissioned assets are transferred to reception facilities.

Our services include:

- Front end feasibility studies for selection of project specific ports and quaysides
- Class 2 cost estimates and realistic scheduling of the onshore disposal phase execution
- Assessment and method selection covering the onshore dismantling and recycling process based on specific offshore removal campaigns
- Engineering for quayside load-ins, laydown arrangements, and logistics
- Reuse, repurposing, dismantling, decontamination, recycling, and disposal of all assets in line with hierarchy and circular economy principles
- Waste Management including, Hazardous and NORM management, in strict adherence with auditable end-to-end tracking processes
- Environmental Reporting and Project Closure Reports



Work Breakdown Structure

Ship Unloader Crane Dismantling & Demolition

LOCATION: Geelong Port VIC, Australia

RECYCLED MATERIALS:

120T Concrete

707T Ferrous & non-ferrous metals

WORKS INCLUDED:

Full engineering calculations, documentation, and lift plans for the methodical separation of the non-return complex tandem lifts of the crane components.

Wharf permissible ground bearing calculations and laydown arrangements to protect the existing concrete and asphalt hard stand and crane rails from both items being landed and Ausdec's excavators carrying out the mechanical demolition works to reduce the components to truck size for onward offsite transport and recycling.

For the removal of the booms and superstructures Ausdec utilised a 350t crawler and 450t mobile crane to complete this segment of works due to the lift weights and ground bearing pressures involved.

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Ausdecom appreciates that proximity to field along with marine access, water depth, quayside and laydown space are key determinants in positioning of an onshore disposal yard for offshore oil and gas asset dismantling and recycling.

Ausdecom is promoting a strategic collaborative approach with facility land owners in all the existing Australia wide offshore supply base and servicing locations.

About Us

Australia wide, Ausdecom operate one of the largest specialist industrial decommissioning plant fleets backed by highly skilled in-house operators, engineers, and project management teams capable of executing the most complex of decommissioning projects. All Ausdecom projects are undertaken in strict compliance with our integrated ISO 45001, 14001, 9001 accredited business management system.

With demonstrable experience covering Oil & Gas, Petrochemical, Defence, Marine, Power Distribution and Networks, Quarries, Smelting, and Heavy Industrial Manufacturing sectors, across live operating environments or closed, redundant sites nationally.



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