



DECOMMISSIONING CASE STUDY

MIDWATER ARCH DOWNSIZING

John Lawrie Group is the largest metal recycler and exporter of processed metal in North and North-East Scotland and an experienced member of the decommissioning supply chain. With current strategically located licensed facilities in Aberdeen, Shetland, Evanton and Montrose, and the addition of our new quayside facility in Dundee opening in 2020 bringing our combined annual licensed tonnage to 360,000 tonnes, John Lawrie Decom is your decommissioning partner of choice.

Highlights

Client:	Ithaca Energy (sub-contracted to Global Energy)
Field:	Athena, Central North Sea
Port:	Nigg Energy Park, Tain, Highlands
Project:	Midwater Arch degassing and downsizing
Tonnage:	500Te
Recycling Rate:	100%

Project Summary

The decommissioning programme for the Athena field saw the Mid Water Arch (MWA) – which had supported pipelines and control systems as they rose from the seabed – brought onshore for deconstruction and recycling. The 500Te structure was landed at the Nigg Energy Park.

Constructed of steel and measuring approx. 17m long, 15m wide and 7m in height, the MWA comprised an outer shell-like structure that wrapped around two pressurised buoyancy cylinders. The cylinders required degassing before the structure was downsized into road transportable sections – this work was undertaken on the quayside by John Lawrie’s decom team at Nigg.

Due to its size, the structure was cut up manually using oxy-propane hot-cutting equipment. Mobile elevated working platforms provided a stable elevated platform for workers to safely access the structure’s higher reaches. A crane held each section in place during cutting operations.

The cut sections were transported by John Lawrie’s fleet of specialist trucks to its licensed waste metal treatment facility at Evanton for full processing to ESSS standard, before being exported to European steel mills for recycling into new steel products, delivering significant environmental benefits.

OUR DECOMMISSIONING CAPABILITIES:

 <p>Onshore decommissioning service</p>	 <p>Piece small to medium items</p>	 <p>Access to quayside dismantling facilities</p>
 <p>Size reduction service at quayside</p>	 <p>Excellent track record</p>	 <p>Reuse & recycling specialists</p>
 <p>Recycling subsea infrastructure</p>	 <p>Licensed waste treatment facilities throughout Scotland</p>	 <p>Skilled & mobile workforce</p>
 <p>In-house HSEQ support service</p>	 <p>Documented safety management system OHSAS 18001:2007</p>	 <p>Accredited ISO 14001 & 9001 management systems</p>

Provision of specialist trucks, lifting and cutting equipment and a fully mobile, well-trained workforce as well as a highly innovative approach to project management and logistics means decisions are made quickly and jobs expedited efficiently. Our in-house HSE function includes method statements/risk assessments, training & competences.

We have a long established and experienced hands-on management team in place and a proven track record in managing, handling and processing a large number of decommissioning projects.

