

Colin Ortlepp



Kishorn Port & Dry Dock

Concrete Substructures for Offshore Wind



Location





Location



Joint Venture Partners

1970s - Ninian Central Platform

Dry Dock

- 13.8m water depth @MHWS
- 160m working diameter
- 27,000m² floor area
- Concrete base on rock
- Planned extension to accommodate larger structures

Aggregate Quarry

- Operated by Leiths (Scotland) Limited
- 6.5 million tonne reserve
- High strength rock
- Produces wide range of aggregate products
- Concrete batching plant

Port Development

- Foreshore reclamation additional 10ha. of laydown land giving total of 24ha.
- Removal of tiered embankments
- **Deep water quay** to provide 20m quayside water depth
- Dry dock extension increase dock floor by approx.
 6,000m² yield rock for reclamation work
- Mains electricity supply upgrade transition from diesel generation

Port Development

Substructure Manufacturing at Ports

- Laydown Land land for manufacturing, assembly, storage (materials, components & structures)
- Quayside Draft sufficient draft for substructures

KPL

- Serial Production in situ or 'conveyor belt', on land/dry dock
- Load Out Options slipway, barge, other?
- Load Bearing for SPMTs, ring cranes
- Low Carbon cement and other materials

Opportunities for Concrete

- Shorter Supply Chains Scotland/UK raw materials
- Local Content aggregates/cement/rebar
- **Employment** civil engineering skills
- Joint Working Between Ports floating substructures
- Longer term serial production port investment

And Finally.....Decommissioning

Decom Package

- Opportunities for Ports
- As-Built Details of all elements
- Materials Inventory volumes/tonnages and types
- Hazardous Materials
- Recycling & re-use opportunities

