



## Process Filters for Oman LNG Contractors : Chiyoda - Foster Wheeler

Chiyoda - Foster Wheeler secured the \$1.5bn contract to build a grassroots liquefaction complex for Oman LNG LLC. The complex in which Shell has a 34% stake, comprising two Liquefied Natural Gas (LNG) liquefaction trains, product storage facilities and waterfront marine facilities. The plant will utilise Natural Gas feedstock supplied from gas fields in Central Oman.

The project is set to contribute towards meeting the predicted increase in demand for LNG worldwide. As a result, Oman will become a major LNG exporter, with a long-term supply contract already in place with Korea.

The Process Filters supplied include Lean Amine Activated Carbon Filters, with 30" NB connections, as part of the gas treatment package. These filters remove hydrocarbons from the Amine used in the gas sweetening process. Also included in the scope of supply were Pre Filters to protect the activated carbon bed from solid contaminant and After Filters for the removal of trace solids.



2 No LLAC-3400-030 Series 600 Lean Amine Activated Carbon Filters  
Design Code BS5500 Cat.1, Wall Thickness - 75mm  
Supplied to Chiyoda - Foster Wheeler for OMAN LNG

Dollinger secured this contract on a competitive tender basis against competition from Shell approved vendors worldwide. The Dollinger radial finned filter element design proved invaluable in securing the contract, providing maximum filtration area, extra dirt holding capacity, lower pressure drop and the benefit of element interchangeability during the commissioning period allowing variations in the filtration efficiencies.

The total Process Filter Package supplied, valued at \$458K, comprised of:

- Activated Carbon Filters
- Recycled Sulfinol Filters
- Regen. Gas Separator Liquid Filters
- Solvent Make Up Filter
- Bearing Lube Water Filters
- Lean Solvent Filters
- Dust Filters
- Activated Carbon After Filters

The filters were designed in accordance with the BS 5500 CAT.1-2 pressure vessel code, incorporating Shell DEP. specifications. The order was completed and despatched within a tight delivery schedule.

Chiyoda - Foster Wheeler also awarded Dollinger's sister company the contract for supply of an instrument air dryer package on the same project.