



Background

Our offshore wind turbine O&M has a number of cooling banks on an offshore substation, in order to replace the rusting cooling bank the mineral oil needed to be removed.

This left the site manager with the choice of transporting thousands of litres of new oil offshore and waste oil back to the quayside for disposal, or offshore handling and oil purification.

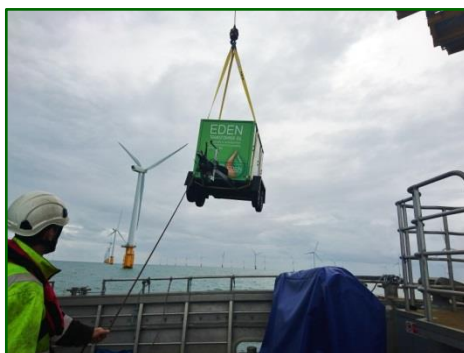
Solution

Eden's 1,500Kg purification plant and certified lifting bags containing all required cables, hoses and tools were transported to the substation by the Crew Transfer Vessel.

The oil was transferred to new clean intermediate bulk containers (IBCs), whilst other contractors set about replacing the rusting cooling banks Eden's staff applied on-site purification to the oils in the IBCs.

Once the replacement cooling banks had been fitted and tested with dry nitrogen the oil was returned to the units via the purification plant and then purified again to ensure the oil was in the best possible condition to return to service.

Analysis showed the oil to have 75kV dielectric strength and 4mg/Kg moisture.



About Us

Eden was formed by Alan Denbow and Eddie Gregory in August 1985.

Former employees of Burmah Castrol, they realised that the vast majority of electrical engineers were simply replacing expensive transformer oil without fully appreciating the additional technical benefits of purification to the electrical equipment, and that Eden could achieve a more convenient solution at a significantly lower cost.

In more recent years the treatment of transformer oil is the first choice for a cost effective and efficient maintenance program: the increasing cost of new oil, the importance of productivity and equipment downtime, coupled with the environmental benefits of avoiding the transportation of hazardous waste and use of virgin products, are all part of the equation.

As well as providing on-site transformer oil treatment, if needed, Eden can supply and install new or reconditioned insulating liquid and provide all of the on and off-site sampling and analysis to ensure transformers are supervised and maintained according to British Standards (BS EN 60422:2013) and insurance underwriters requirements.

Our online store is ideal for customers requiring smaller quantities of insulating liquids, desiccant breathers, spill kits and other regularly used consumables. All of our products are sourced in the UK and used on site every day by Eden staff, so they are tried and tested in the field.



Registered Address

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Waste Carrier License: CBDU1214230 **Waste Storage Permit :** EPR/BB3506LF