



THE CHALLENGE

old oil cables in the ground

Old power cables with insulation made of dielectric oil pose an ecological risk.

With the ODB system, the clean-up is efficient, 100 % biological and compliant with the law.

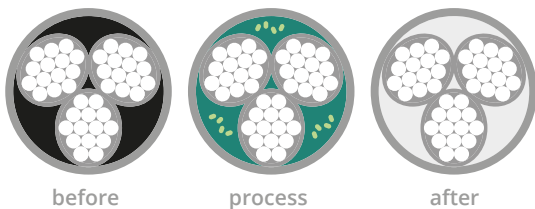
Cable systems can be permanently decommissioned following treatment.



THE IDEA

clean-up using bacteria

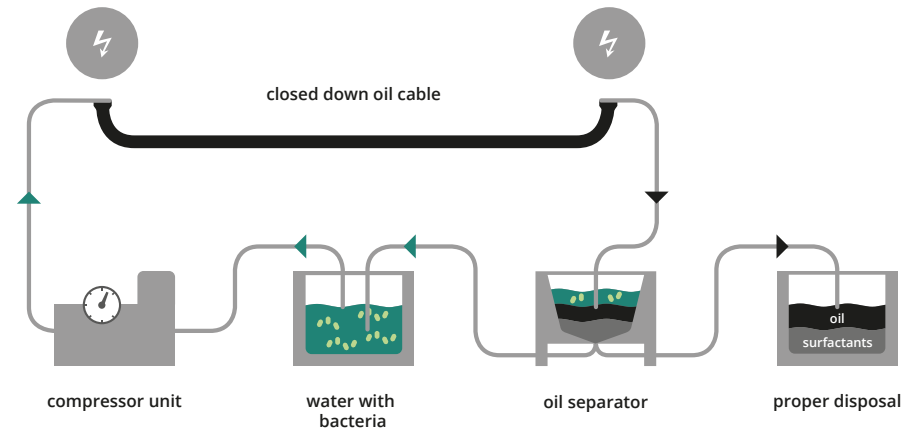
Our process is based on the biological degradation of oil through repeated flushing with a specialised bacterial suspension: **Oil Degradation by Bacteria**



THE PROCESS

efficient and effective

- 1 determination of amount and type of oil in cable, cultivation of bacteria
- 2 injection of bacterial suspension
- 3 exchange of liquid, separation of suspension, oil and surfactants
- 4 regeneration of bacterial culture and repeated injection



The procedure is repeated multiple times until analysis shows a 5 % residual oil amount in the cable. This oil is bound to the paper insulation and no longer presents an environmental risk.



THE BACTERIA

lowest risk group

Depending on the nature of the insulation oil, a specific mixture of the following bacterial strains is used:

- Bacillus subtilis (hay bacillus)**
- Bacillus licheniformis**
- Rhodococcus rhodochrous**



All three organisms belong to lowest microorganism risk group 1 – just like yoghurt cultures.



THE BENEFITS

at a glance

- + legally compliant, 100 % biological procedure
- + flexible use for all voltage classes
- + turnkey installation of compact mobile system
- + no risks to health and environment
- + legally compliant, permanent decommissioning of cables

ODB
system

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biological. clean. efficient.

