

Technology's description

The MIO (Mediterranean Institute of Oceanography) has developed a new microbial process to enhance the degradation of hydrocarbons of various types (alkanes, alkenes) thanks to the use of Archaea bacteria under anaerobic conditions.

This process also opens up new perspectives for enhanced recovery of petroleum in the waters of oil deposits or the oil from tar sand.

Methods of bioremediation of soils contaminated by hydrocarbons is also potentially considered.

Advantages

- Process for recovering trapped hydrocarbon
- High treatment performances, simple process implementation
- Large range of hydrocarbon degradation
- Ecological process, environmental friendly
- High bacteria tolerance in toxic environments
- Low cost solution.

Applications

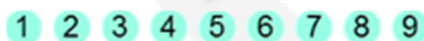
- Soil remediation, recovery of hydrocarbon.

Intellectual property

Patent

Development level

Technology validated in lab



Technology transfer

- Licensing - codevelopment.



Source : IRD