



Responsible oil and gas Enhanced oil recovery (EOR)



ENHANCED OIL RECOVERY (EOR)

OVERVIEW AND CHALLENGES

According to current forecasts, global reliance on **fossil fuels** is set to remain high through to the period 2030-2040. It is therefore crucial to develop increasingly advanced oil and gas exploration and production technologies.

In a context in which the implementation of the **energy transition** is gathering pace and the **oil market** remains strained, the **oil industry** is faced with the need to:

- reduce costs,
- reinforce innovation to increase production and improve the eco-efficiency of processes.

Enhanced Oil Recovery (EOR) makes it possible to **increase** the potential and **life-span of oil fields**. The stakes are high because a 1% increase in oil production would correspond to 2 years' global consumption at current levels.

Three main EOR techniques exist:

- chemical using polymer and surfactant injection,
- gas or foam injection,
- thermal using steam injection.

35%: the average recovery rate from fields globally.

15 to 20%: the potential increase represented by the use of EOR techniques.

Helping oil companies to design their fields through to *full field* deployment with innovative EOR techniques in order to increase field recovery rates and optimize produced water recycling.

IFPEN, a pioneer in the field of EOR, with cutting-edge laboratory facilities, joined forces with two other **global leaders** in their respective fields to form the EOR alliance: **Beicip Franlab** (reservoir engineering studies and consultancy specialists) and **Solvay** (internationally recognized chemical formulation specialists).

The EOR alliance proposes a joint offer covering all types of EOR, from chemical EOR through to thermal EOR.

With a view to **eco-responsible development**, IFPEN also provides **water cycle management solutions**: fluid separation, water treatment and reinjection.

Our solutions

Our networks

Our strengths

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