Responsible oil and gas | Gas treatment

GAS TREATMENT
OVERVIEW AND CHALLENGES

The development of ever more efficient gas treatment technologies is supported by:

- the increase in gas consumption through to 2040 despite a slowdown resulting from the global Covid-19 pandemic, (+ 1.2%/year to 2040*)
- Its contribution to the energy mix to the tune of 25% in 2040* (oil: 28%; coal: 19%; low-carbon energies: 27%) but with regional variations:
    - an increase in countries with carbon-intensive economies (objective of improving air quality and support for manufacturing industry growth), with natural gas continuing to benefit from its low emissions compared to coal;
    - slight fall in demand in advanced economies preparing for the transition towards zero net emissions

The roll-out of blue hydrogen production and use is a factor that will strongly favor CO_2 capture processes in different types of syngas.

**(Source IEA - World Energy Outlook 2020, STEPS).*

> Since around 40% of global natural gas reserves are sour gases, in order to be produced and used, they have to comply with strict specifications governing the sour compounds (CO_2 and H_2S) and must therefore undergo the appropriate sweetening treatments.

Strict gas network specifications:
CO_2 content: < 2,5 %,
Sulfur content of H_2S (+ COS): < 5 mgS/m³(n).

IFPEN offers industry a complete range of technologies to sweeten natural gas or capture syngas (equipment, processes, solvents)
and effectively and economically reduce CO_2 emissions at source.

Our solutions Our strengths

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