



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<sub>2</sub> 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 ( $\text{CO}_2$  and  $\text{H}_2\text{S}$ ) and must therefore undergo the appropriate sweetening treatments.

Strict gas network specifications:

$\text{CO}_2$  content: < 2,5 %,

Sulfur content of  $\text{H}_2\text{S}$  (+ COS): < 5 mgS/m<sup>3</sup>(n).

**IFPEN offers industry a complete range of technologies to sweeten natural gas or capture syngas (equipment, processes, solvents) and effectively and economically reduce  $\text{CO}_2$  emissions at source.**

[Our solutions](#)

[Our strengths](#)

## CONTACT



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