



**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 (CO<sub>2</sub> and H<sub>2</sub>S) and must therefore undergo the appropriate sweetening treatments.

Strict gas network specifications:

CO<sub>2</sub> content: < 2,5 %,

Sulfur content of H<sub>2</sub>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 CO<sub>2</sub> emissions at source.**

Our solutions

Our strengths

## CONTACT



**Kateryna Voronetska**

Program manager

[kateryna.voronetska@ifpen.fr](mailto:kateryna.voronetska@ifpen.fr)

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