



GAS TREATMENT

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 CO₂ 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 (CO₂ and H₂S) and must therefore undergo the appropriate sweetening treatments.

Strict gas network specifications:

CO₂ content: < 2,5 %,

Sulfur content of H₂S (+ 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 CO₂ emissions at source.

[Our solutions](#)

[Our strengths](#)

CONTACT



Abdelhakim Koudil

Program manager: "Conversion of residues and heavy crudes", "Biomass to chemicals", "Gas treatment and conversion", and "New technological markets"

abdelhakim.koudil@ifpen.fr

Link to the web page : [Gas treatment](#)