



Connecter les énergies d'avenir

# A TSO proactive approach to cut down methane emissions



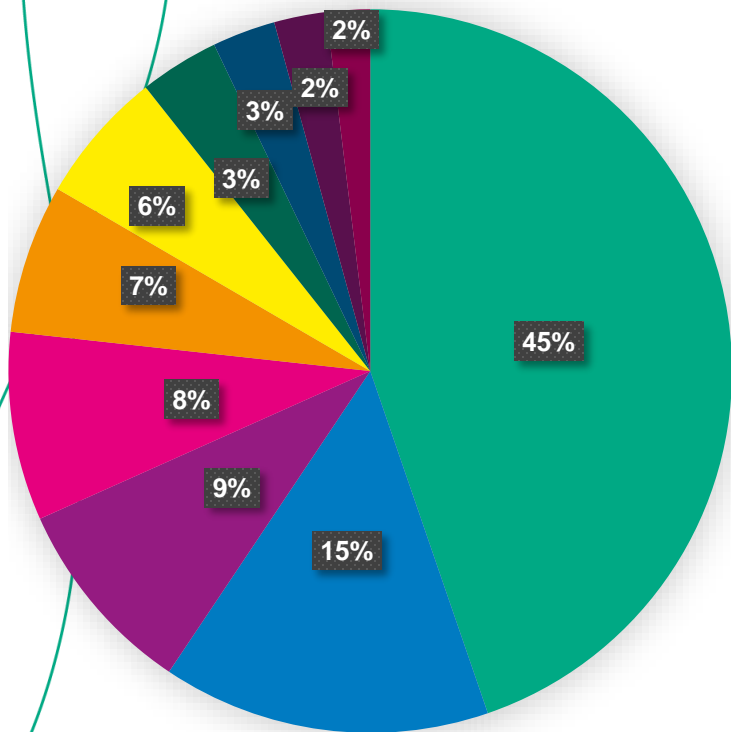
**UNECE Conference  
Methane Emissions**

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# GRTgaz methane emission (2016)

Current estimation with last micro-leaks evaluation



- AGI micro-leaks: station (without compressor)
- Pipeline works
- Compressor depressurization
- Chromatography
- Pressure Relief Valve
- AGI micro-leaks: compression
- Control valve
- Compressor starts
- Compressor gas dry seals



**27 000 000 m3(n)**

## GRTgaz:

Pipeline 32300 km    Compression Stations : 28 (616 MW, 83 comp)  
 9000 Above Ground Installations (delivery, pressure reduc & shut off)

# Historical Path and what will come next

- + 1995 : Compressor sealings from wet to dry seals and finally integrated compressors (13 installed since 2004)
- + 2010 : priority to works on pipeline : 2017 : 90% of saved gas
- + 2013: start up of a cultural debate: do we have leakages on our facilities
- + 2015: Micro Leaks become the #1 priority, debate on how to evaluate (or the right way to implement EN 15446)
- + 2017 : complete audit (IR detection + EN 15446 + leakage repair & CMMS management on every compression station every 3 years)
- + 2017 : maintenance plan evolution toward systematic annual LDAR on the 9000 other installations
- + Next Steps trough innovation :
  - ❖ Better techniques to detect leakages
  - ❖ Pressure relief valves management
  - ❖ chromatograph losses
  - ❖ challenging compressor depressurization

+ **GRTgaz  
Challenge:  
Cut to 1/3  
CH4 emissions  
2016-2020**

# + Conclusions

## An ambitious program

Methane emission mitigation is not new to GRTgaz which has always been concerned by its environmental impact.

GRTgaz has always followed up the best available technologies, and has implemented them when they prove compatible.

But this was not enough.

In 2016, GRTgaz was certified ISO 50001 (Energy Efficiency) including its gas emissions reduction program in the certification perimeter and then decided to aim for an ambitious goal regarding gas emissions which are to be divided by 3 by 2020.

Through its actions, all GRTgaz employees are involved today and more and better solutions are being developed.





# Thank you

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