



Case study:  
Enagás

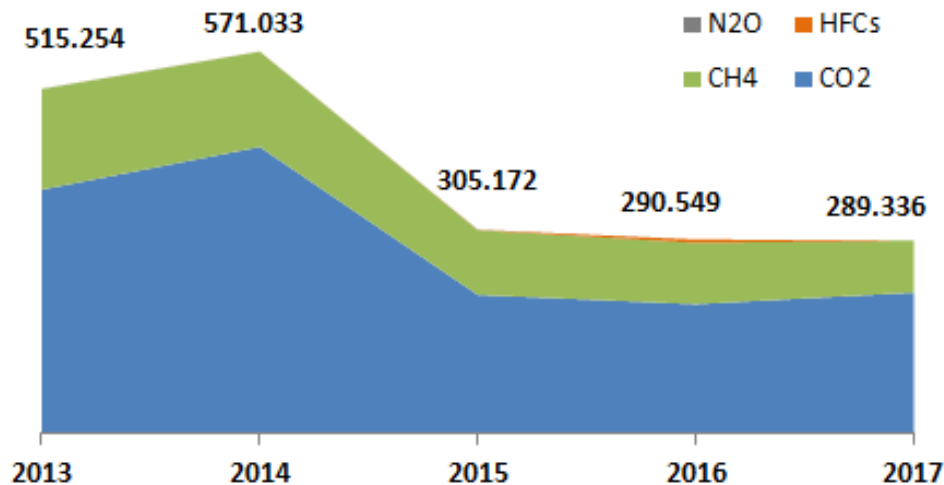
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Geneva, 21<sup>st</sup> March 2018

# Enagás' Carbon Footprint



**Enagás' GHG emissions were reduced by around 50% since 2014. Emissions related to the national activity have decreased every year.**

Enagás' scope 1 and 2 emissions (tCO<sub>2</sub>e) (\*)

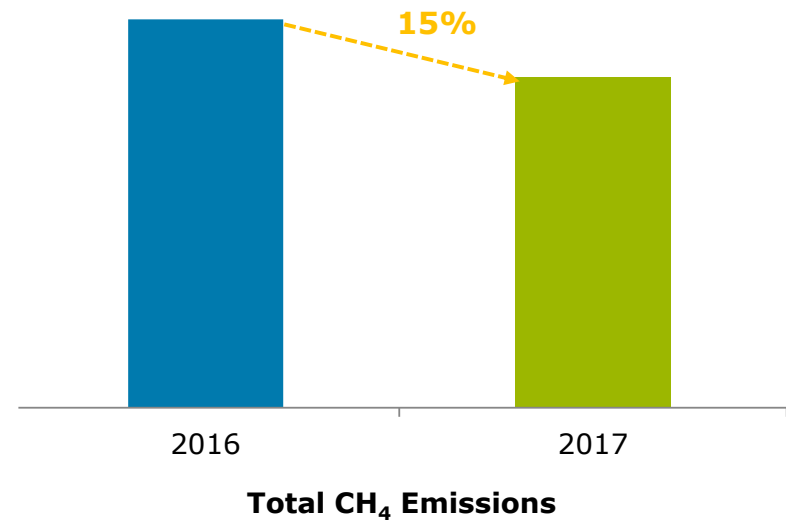
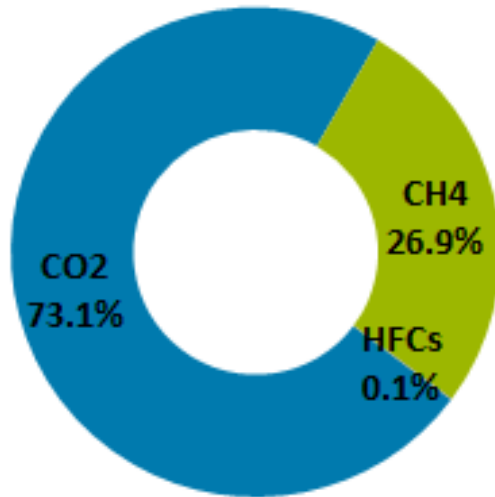


**Savings of 1.22 GWh of natural gas and 4.91 GWh of electricity were achieved in 2017 with an investment of more than 2 million euros.**

# Enagás' Carbon Footprint



**26.9 % of our GHG emissions are methane emissions**



**Enagás' methane emissions are due to:**

- 1. Fugitive emissions (16.9%)**
- 2. Venting (7.9%)**
  - O&M or security venting (92.9%)
  - Pneumatic valves (3.5%)
  - Natural gas analyzers (i.e. chromatographs) (3.6%)

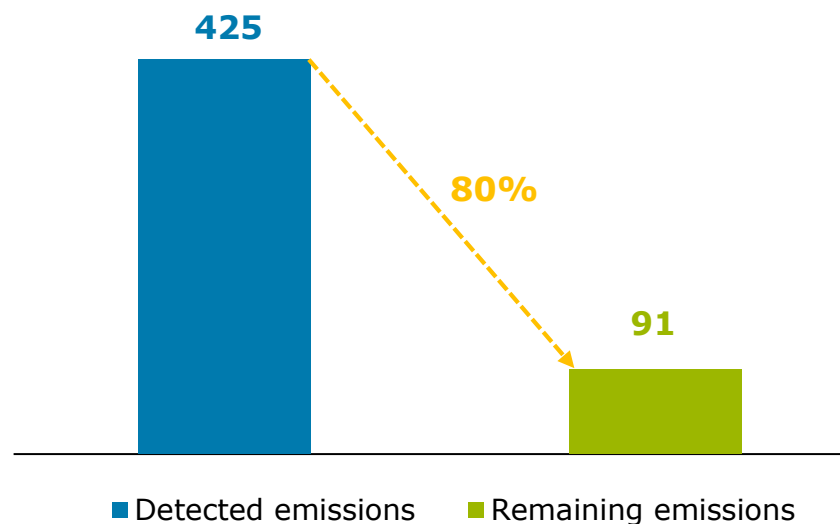
# LDAR campaign 2017 - Results



**Improvements in 2017 LDAR campaign** vs 2013-2015 campaign :



**Methane emissions abated during the campaign**  
**(334 tons of CH<sub>4</sub>)**



860 leaking points were detected, after the economic and technically viable reparations, 168 remaining points were leaking.

# LDAR campaign – Next steps



**Applied to all infrastructures (3 years)**



**Based on CBA implemented best practices**



**Offsetting emissions with carbon credits**



# Ongoing initiatives

## Collaboration agreement

To be extended, currently under discussion



### Work Packages (WP):

- WP1 – Methane climate metrics
- WP2 – Uncertainty/ variability of emissions estimates
- WP3 – Sustainability of LNG shipping fuel

Thank you very much!

