

Reducing methane emissions in the energy sector

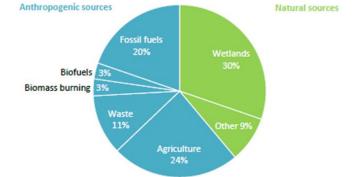
Methane emissions mitigation along the gas value chain – The road ahead for a sustainable future Brussels, 5 November 2019

Mónika Zsigri European Commission, Energy



Methane is responsible for a quarter of today's warming

A third of manmade methane emissions comes from energy...



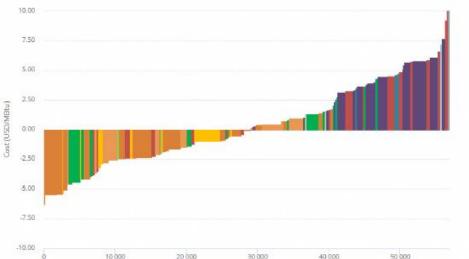
Attributing methane emissions to specific sources is difficult, but human activity is likely to be responsible for the majority of the 570 Mt emissions in 2012



Abatement technologies



...45% of which can be avoided at no net cost



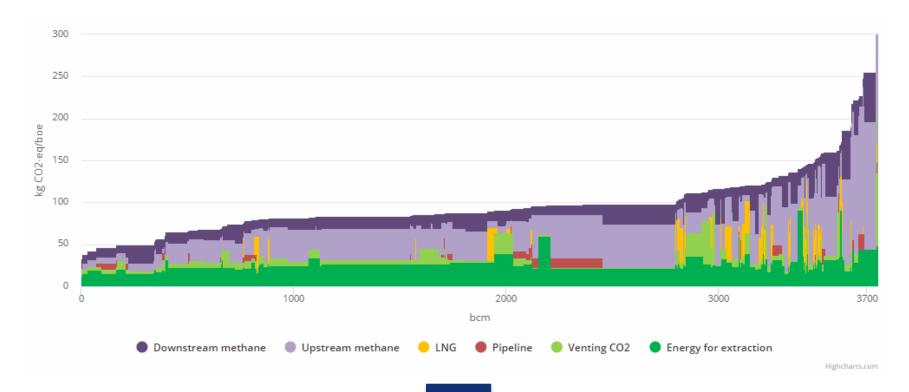
kt.





Natural gas' credibility may depend on reducing methane emissions

Indirect emissions intensity of global gas production, 2017 (source: IEA)





"I want a Europe to strive for more being the first climate-neutral continent" (Ursula von der Leyen)

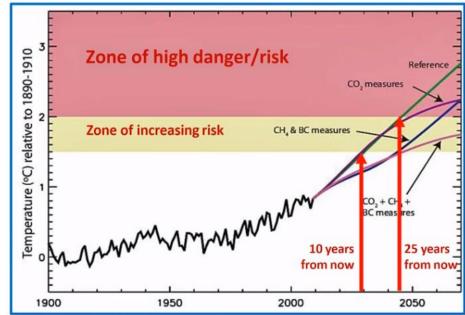
European Green Deal





Methane reductions are critical; we cannot reach COP21 target with CO2 reductions alone





Shindell et al. 2012, Science



An EU methane strategy

"There will be an initiative in the field of **methane and methane leakage**, and Members of the European Parliament will be very closely involved in this **strategy**."

Kadri Simson, Energy Commissioner-designate



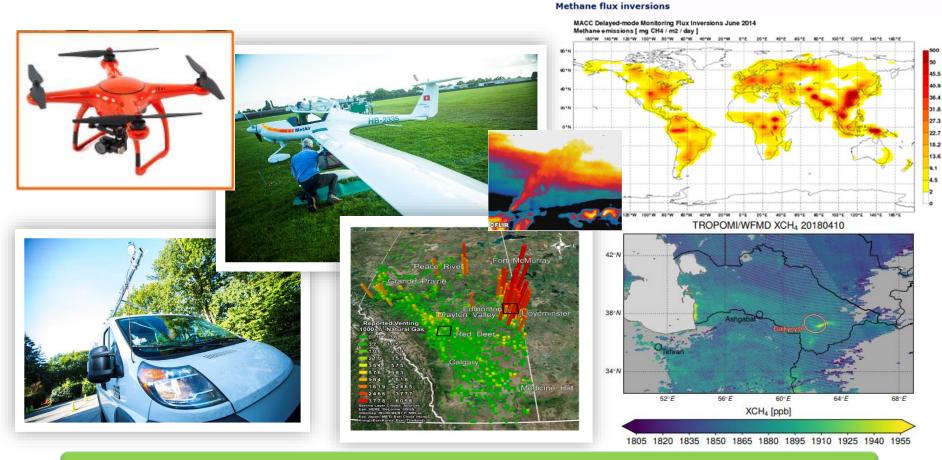
Improving measurement is key

Reduce methane emissions in the energy sector

Scope	Gas, oil, coal	Whole supply chain	Venting, fugitives, flaring, black carbon
-------	-------------------	--------------------	--



The role of technology and science





Improving measurement is key

Reduce methane emissions in the energy sector

Scope	Gas, oil, coal	Whole supply chain	Venting, fugitives, flaring, black carbon
-------	-------------------	--------------------	--

Internal actions

- DG Energy study
- Identify hotspots, superemitters in the EU
- Copernicus for detection and verification
- Improve reporting (tier 3) legislative proposal?

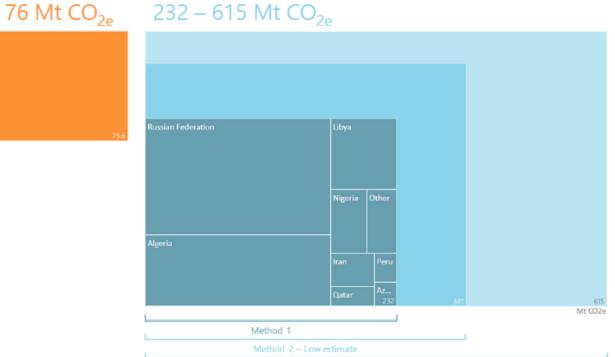


As a major importer of gas, the EU has a responsibility

Estimated methane emissions within EU borders

Estimated methane emissions from imported natural gas and LNG





GWP of methane: 84

Source: carbon limits. GWP methane: 84



Improving measurement is key

Reduce methane emissions in the energy sector

Sco	ope	Gas, oil, coal	Whole chain	supply		Venting, fugitives, flaring, black carbon	
In	iternal a	actions			Exte	ernal actions	
 DG Energy study Identify hotspots, superemitters in the EU Copernicus for detection and verification Improve reporting (tier 3) – legislative proposal? 				 Arr Me Globa 	eration under the UN CCAC nbitious and transparent reporting thane science studies al Gas Flaring Reduction (GGFR) gy diplomacy		



Thank you for your attention!