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**Methane concentration
in the atmosphere is at
an all-time high and has
more than doubled since
preindustrial times.**

**Worse: the
trend is still
ongoing. As
the latest IPCC
report confirms,
methane
emissions
keep rising,
which has high
impacts:**



**Due to its much shorter
lifetime, methane has a
disproportionate impact on
near-term temperature and
is estimated to account for
almost a third of the warming
observed to date**



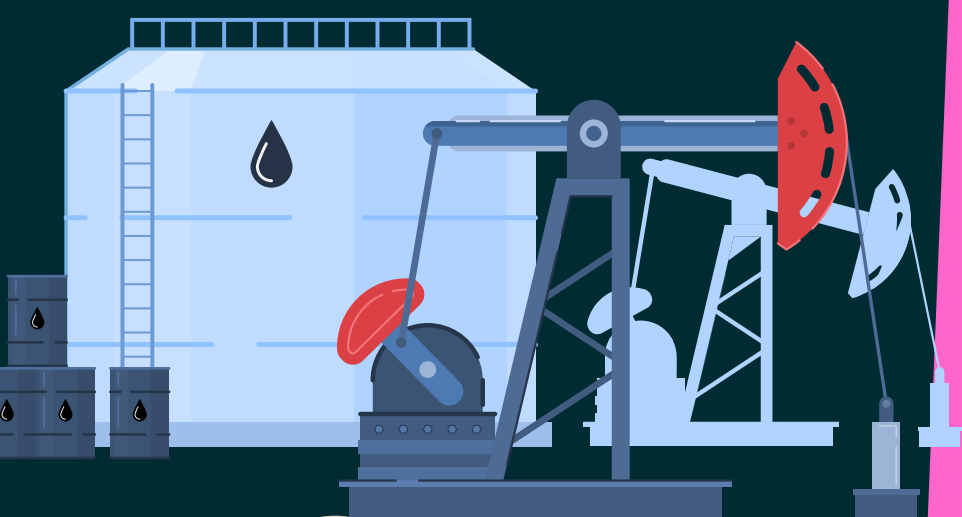
I know we always talk about carbon - and, by extension, CO₂. Yet methane has a special kick:

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Methane has a 27.2 more significant global warming potential than carbon dioxide!

But where does all this methane come from?



In volume, mainly from the oil and gas supply chain.

But in loss rates, the actual “bad pupil” is the biomethane supply chain.

The industry is growing, and the number of biomethane or biogas plants has been growing since the last decades’ decarbonization strategies



So while doing our best to reduce fossil fuel abstractions, we may well indirectly worsen the overall situation!

Kind of an own goal...

Yet, if we fix the leaks and emit less, we can totally get much more benefit from it!

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To do so, we first have to understand where that methane is leaking out of the biogas production cycle.

We looked at feedstock, biogas generation, biogas upgrading, transmission storage and distribution lines, and digested sludge handling.

Verdict:

that last one is actually the “bad pupil,” mostly because of the way those digestates are handled (e.g., stored in the open)

Yet, there may well be an even lower hanging fruit:

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The top 5% emitters account for 62% of CH₄ emissions!

So, fixing these super emitters alone would solve a good chunk of the problem.

A problem that Semra proved in her study to be twice as more significant than previously thought - 18.5 MT/Year vs. the previous estimate of 9.5 MT/Year.

But make sure you don't become a super emitter, to be part of the solution rather than the problem!

Don't miss a single bite: head over to dww.show!