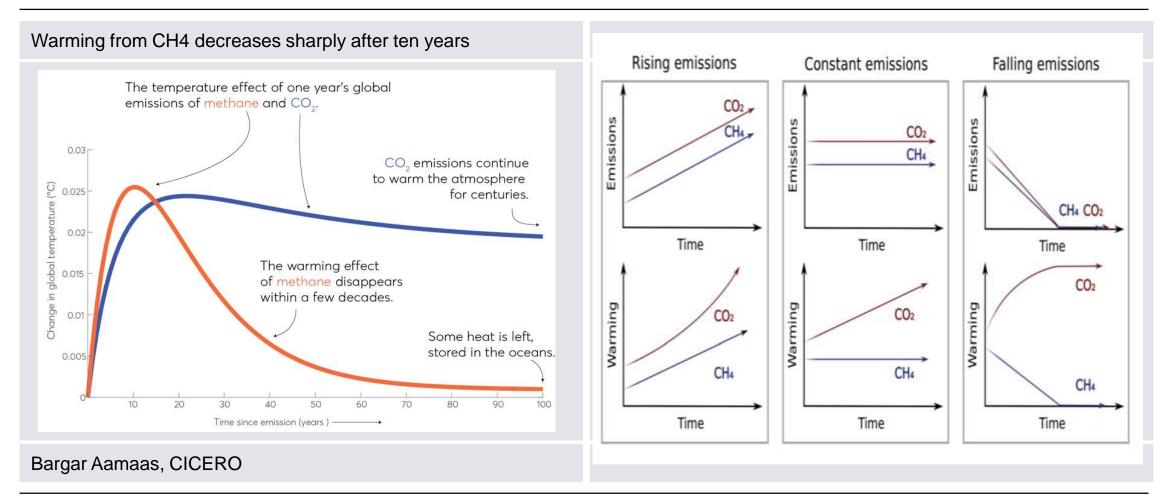


-122 2222 222222

Addressing methane emissions via the Energy System Integration & Hydrogen Strategies

Andreas Graf 1.12.2020

The differences between CH4 and CO2 with regards to global warming continue to be underappreciated. Mitigating one is not more important than the other, but there are tradeoffs.



Much of the methane leakage discussion in the past has been very narrowly focused on the trade-off coal vs gas. But that is beginning to change with higher 2030 climate ambition and net-zero as accelerated coal phase out becomes consensus.





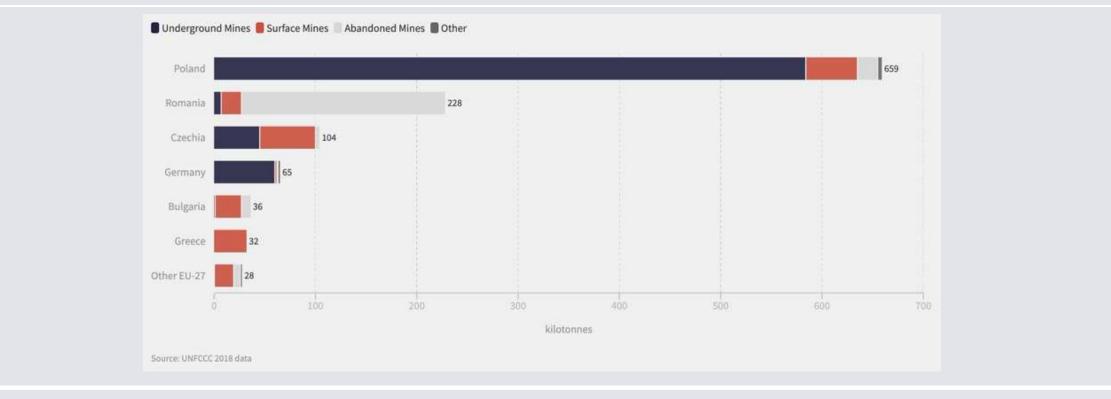
IEA (2017): The environmental case for natural gas

Ecologic Institut & Climact (2020)



In the power sector, we are also beginning to look more seriously at the issue of coal mine methane emissions.

Coal mine methane emissions by country, 2018

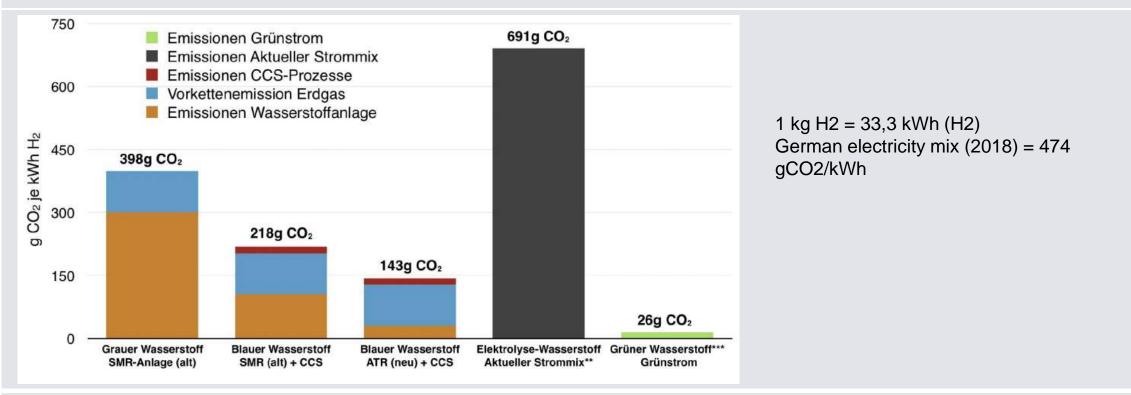


Ember (2020)

However, trade-offs remain in the power sector with regards to avoiding gas lock-in and with the push towards clean hydrogen and deep decarbonization new ones are emerging in industry.



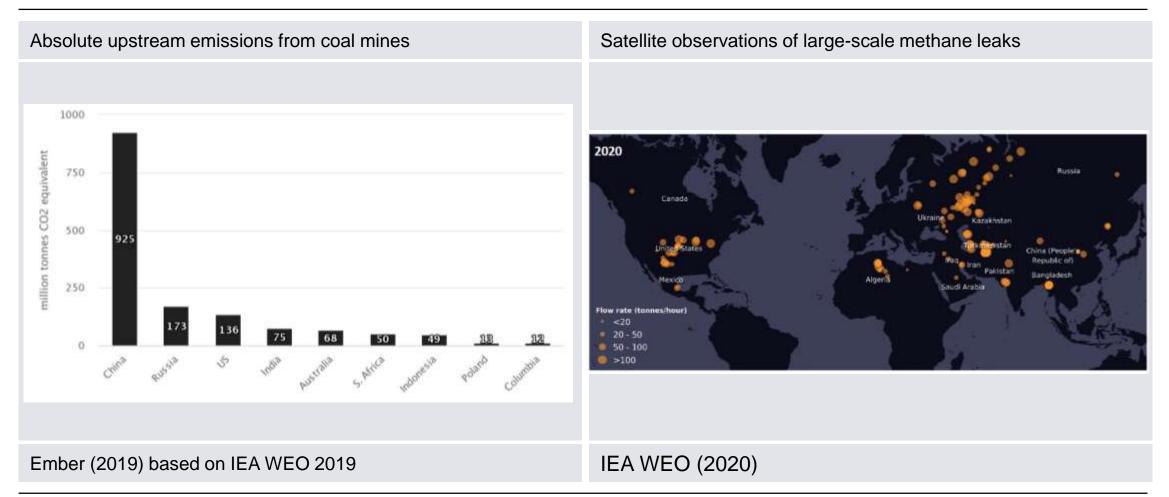
Emissions from Hydrogen Production in g CO2 / kWh H2



Greenpeace Energy (2020)

The EU Methane Strategy and the US electoral result imply that a global strategy for tackling methane emissions in the energy sector are now possible. But it is far from inevitable.





Agora Energiewende Anna-Louisa-Karsch-Str.2

10178 Berlin

T +49 (0)30 700 1435 - 000 **F** +49 (0)30 700 1435 - 129 Please subscribe to our newsletter via www.agora-energiewende.de
www.twitter.com/AgoraEW

The state state state

www.agora-energiewende.de

Thank you for your attention!

Questions or Comments? Feel free to contact me:

Agora Energiewende is a joint initiative of the Mercator Foundation and the European Climate Foundation.