



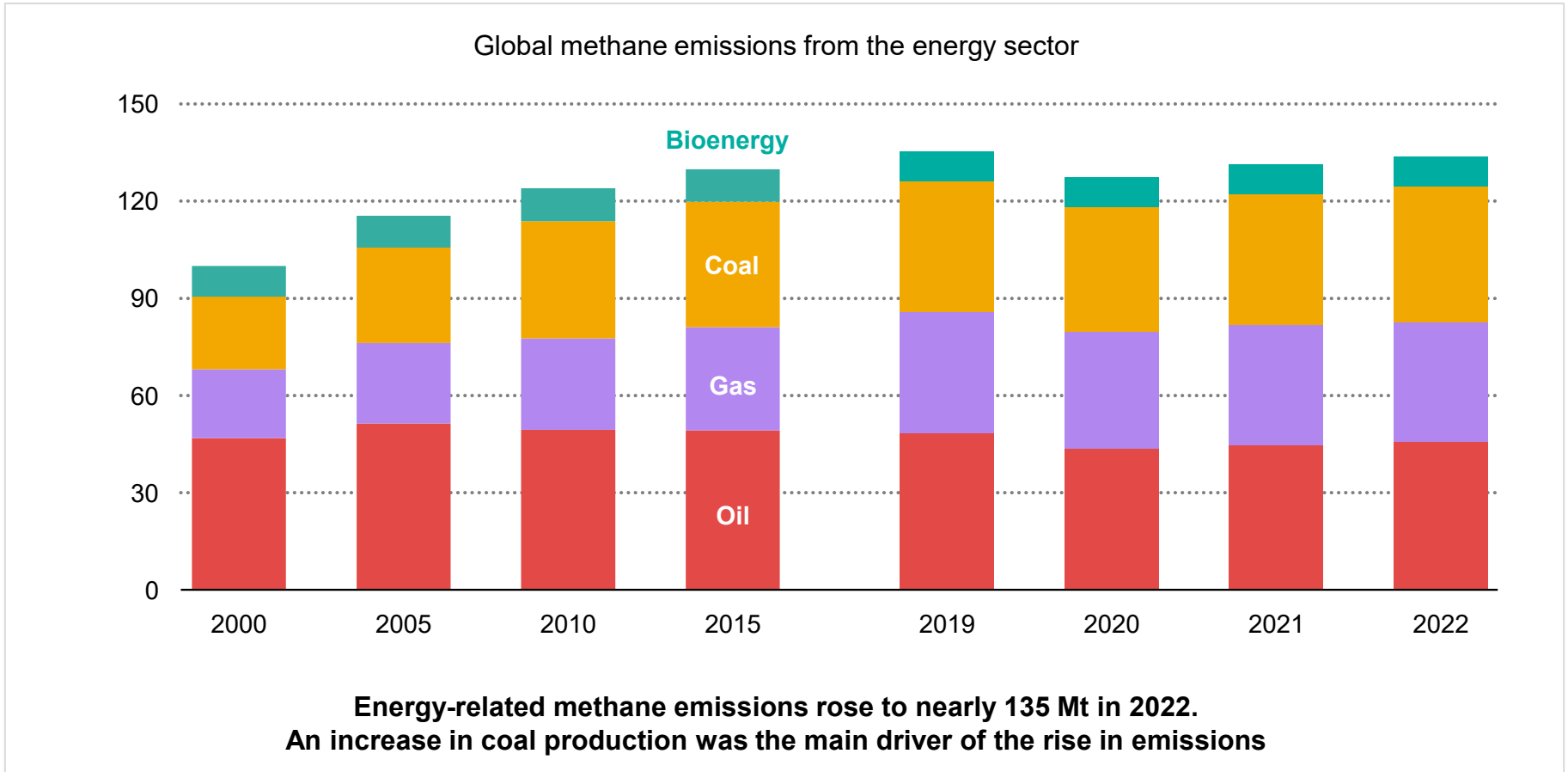
Global Methane Tracker 2023

Eighteenth session of the Group of Experts on Coal Mine Methane and Just Transition

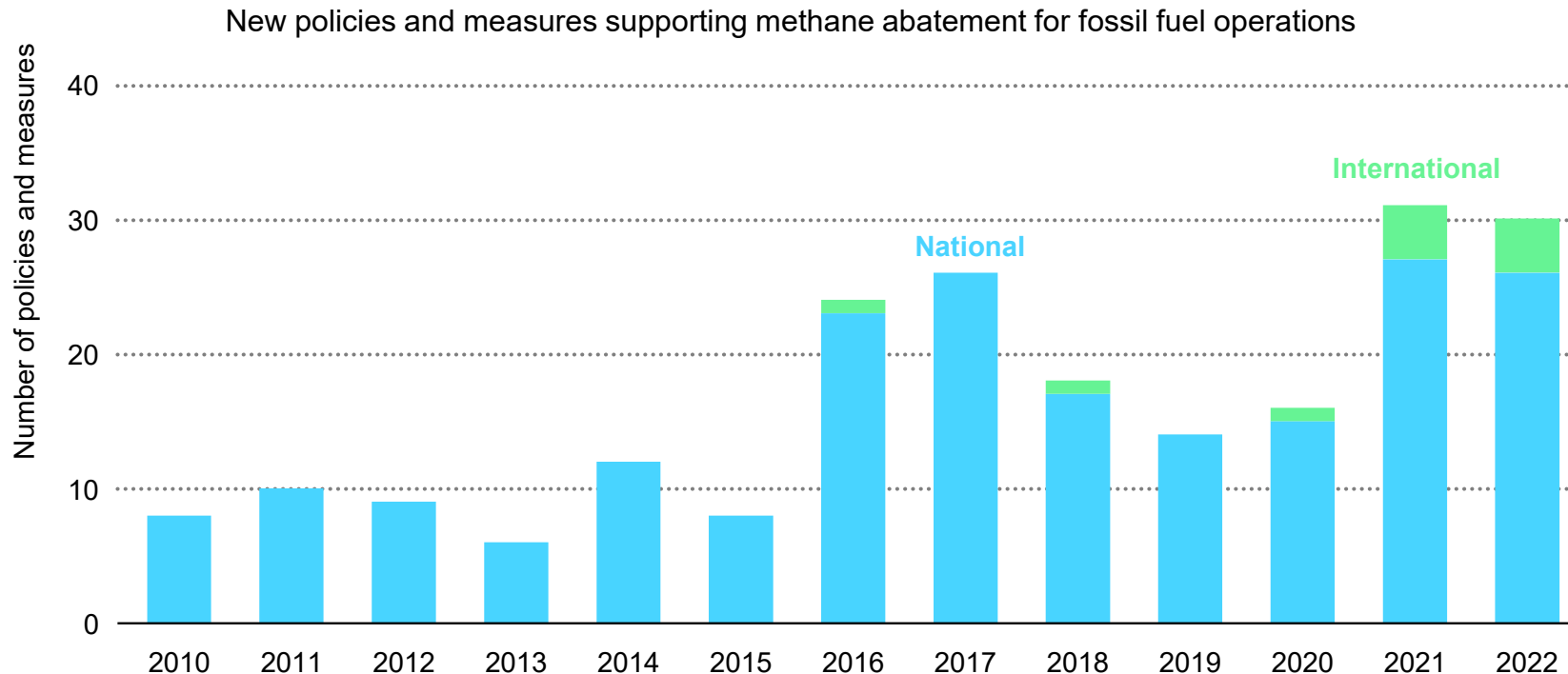
Tomás Bredariol

21 March 2023

High gas prices in 2022 did not drive deep reductions in methane



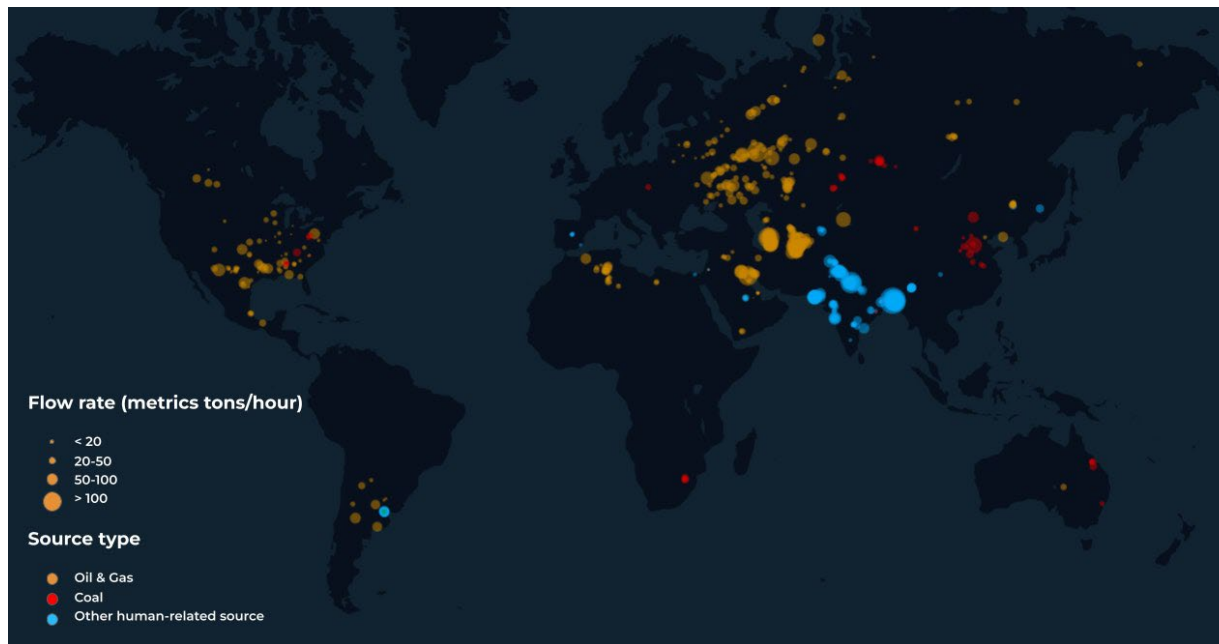
Methane action is gaining momentum, but needs to show results



Around 150 countries, representing 55% of methane emissions, have now signed the Global Methane Pledge. Fossil fuel producers need to step up and policy makers need to step in – and both must do so quickly

Technology is bringing more transparency to emissions

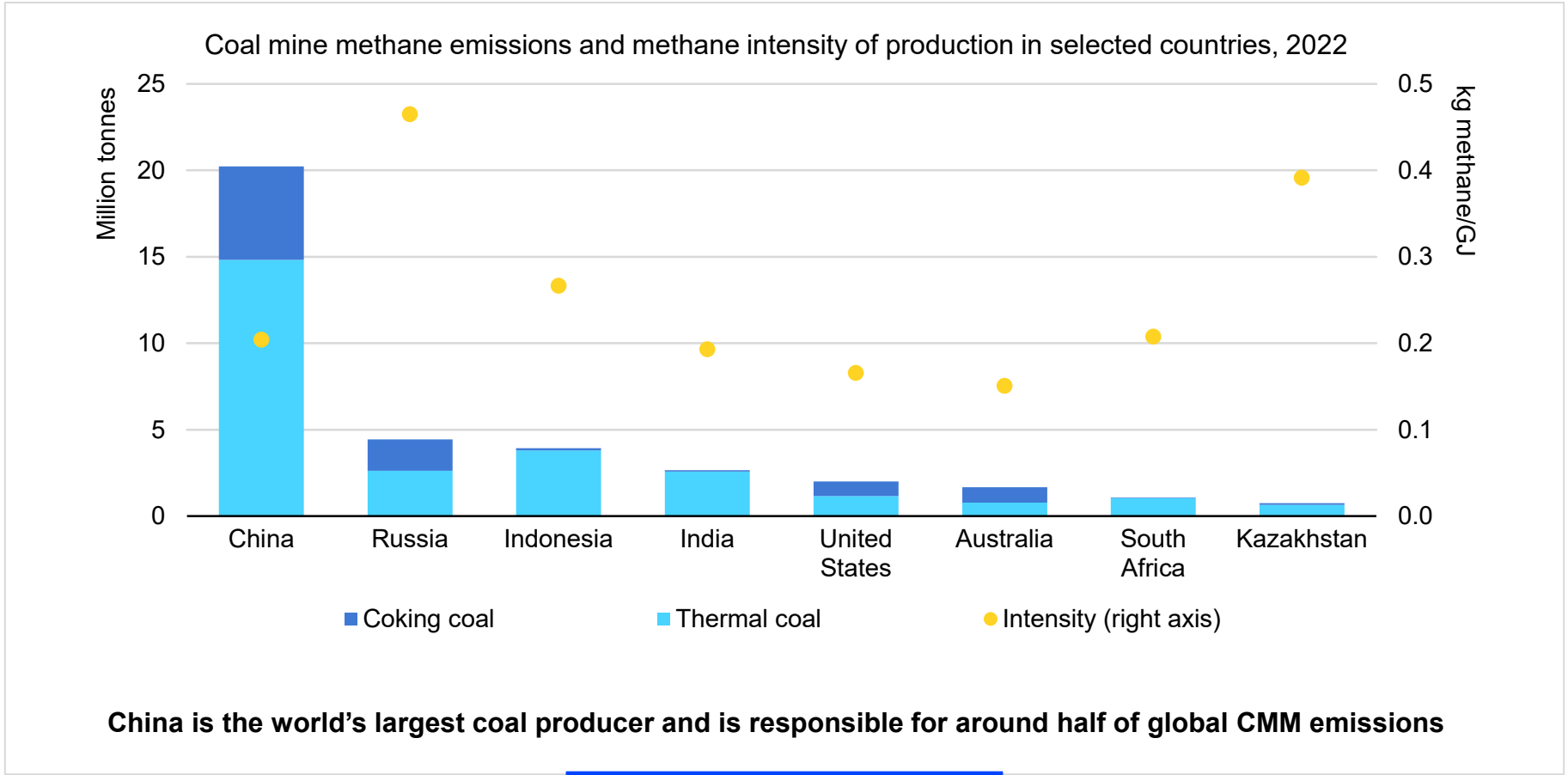
Satellite-detected methane emissions from human activity, 2022



Source: Kayrros, 2023

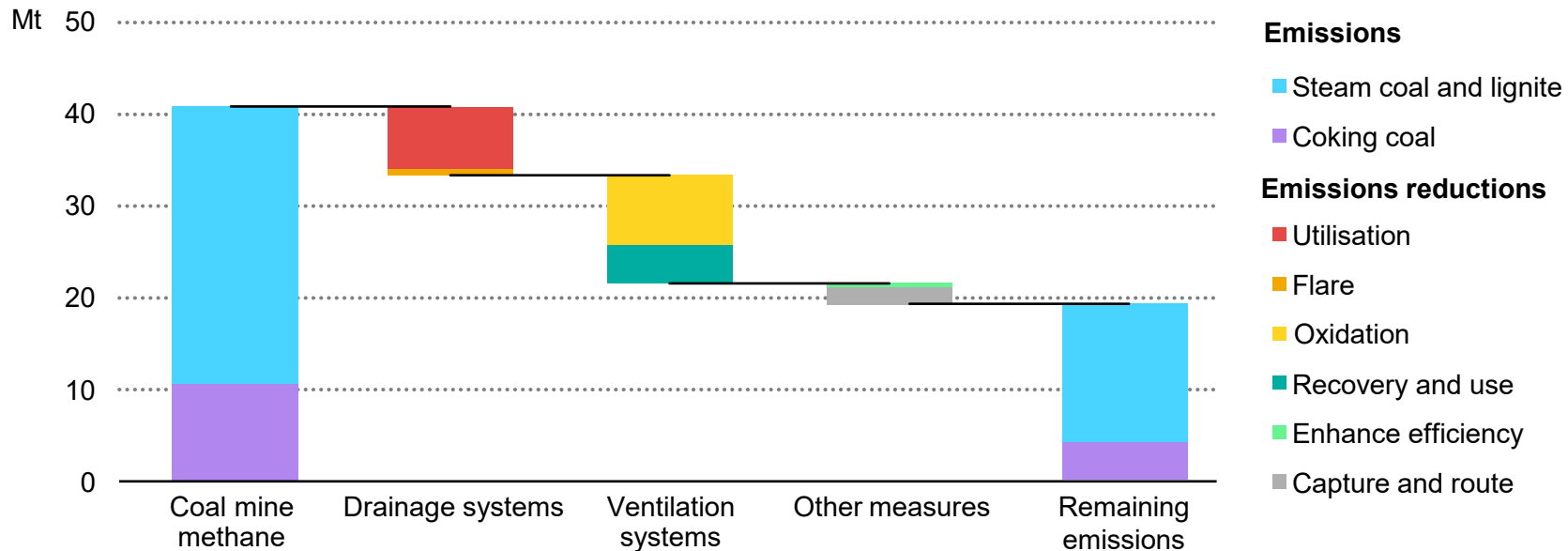
Around 100 super-emitting events were seen by satellites at coal mines in 2022. Preventing these very large leaks is a key opportunity to rapidly reduce emissions

The top-8 largest emitters account for over 90% of total CMM



The coal sector offers key opportunities for methane mitigation

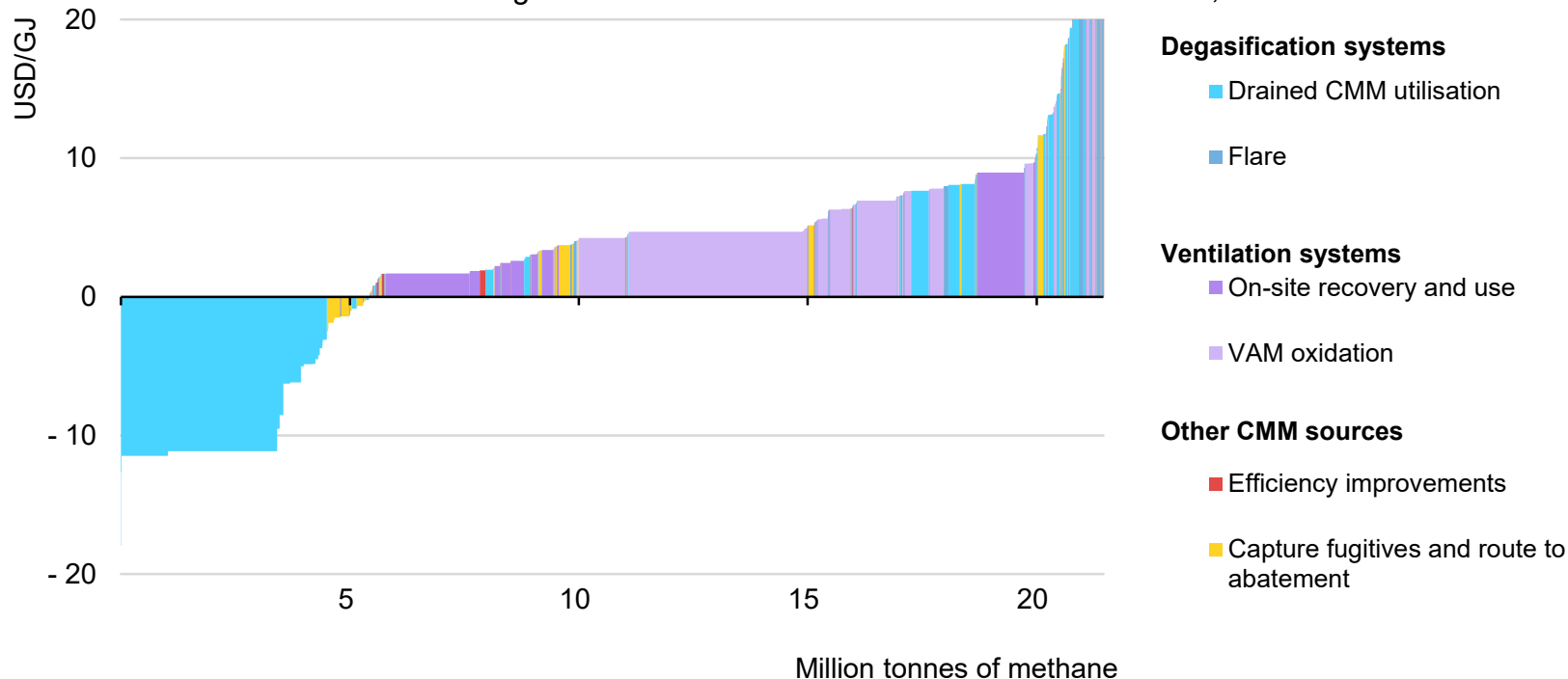
Coal mine methane emissions and abatement potential, 2022



Coal operations caused around 40 Mt methane emissions in 2022. Cutting coal consumption will reduce emissions, but deploying mitigation measures should still be a priority

CMM abatement is still far from being standard industry practice

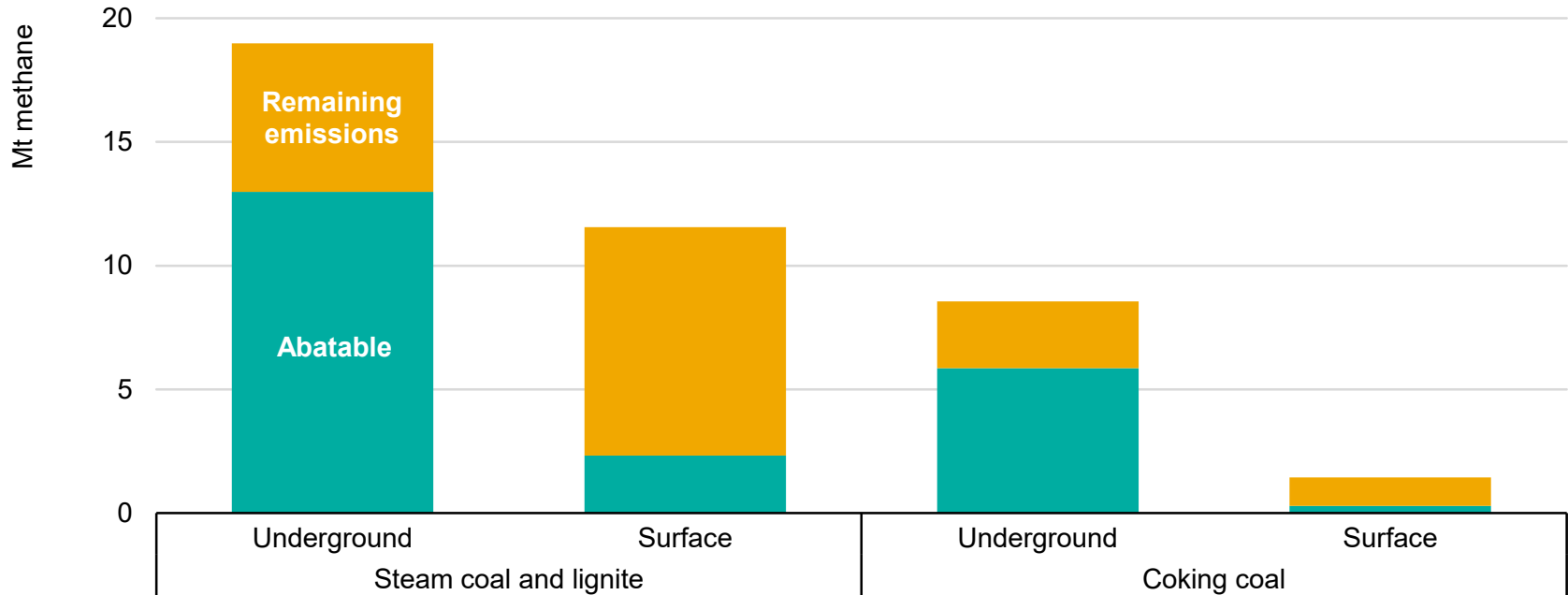
Methane marginal abatement cost curve for coal mine emissions, 2022



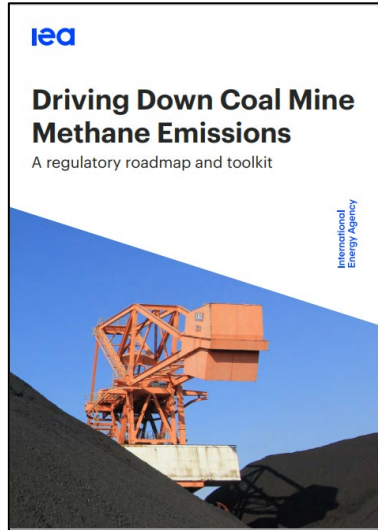
Projects are often hindered by lack of potential users of power or natural gas, economic barriers, and legal and regulatory challenges around the ownership of the methane

Methane reductions are particularly important for coking coal

Methane emissions and abatement potential of global coal supply, 2022



The abatement potential is higher for large, porous underground coal mines and lower for surface mines, where methane emissions are more diffuse



- We have developed a number of resources for regulators and policy-makers looking to cut methane emissions highlighting the steps required and the benefits of doing so
- Our new 10-step roadmap on coal mine methane sits alongside our publication on oil and gas that is already the primary “go-to” reference for countries looking to introduce or enhance methane policies

Understanding the setting

1. Understand the legal and political context
2. Characterise the nature of your industry
3. Develop an emissions profile

Regulatory design

4. Build regulatory capacity
5. Engage stakeholders
6. Define regulatory objectives
7. Select the appropriate policy design
8. Draft the policy

Implementation

9. Enable and enforce compliance
10. Periodically review and refine your policy

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