



Methane Tracker and Regulatory Roadmap and Toolkit

Tim Gould, IEA

8th UNECE Group of Experts on Gas, *Best Practices in Methane Management in the Gas Sector*

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Two major new announcements on methane from IEA



1. The **2021 update to the IEA's Methane Tracker**

- includes detailed estimates for 2020 that incorporate new data for oil and gas output, as well as the latest evidence from scientific literature & measurement campaigns

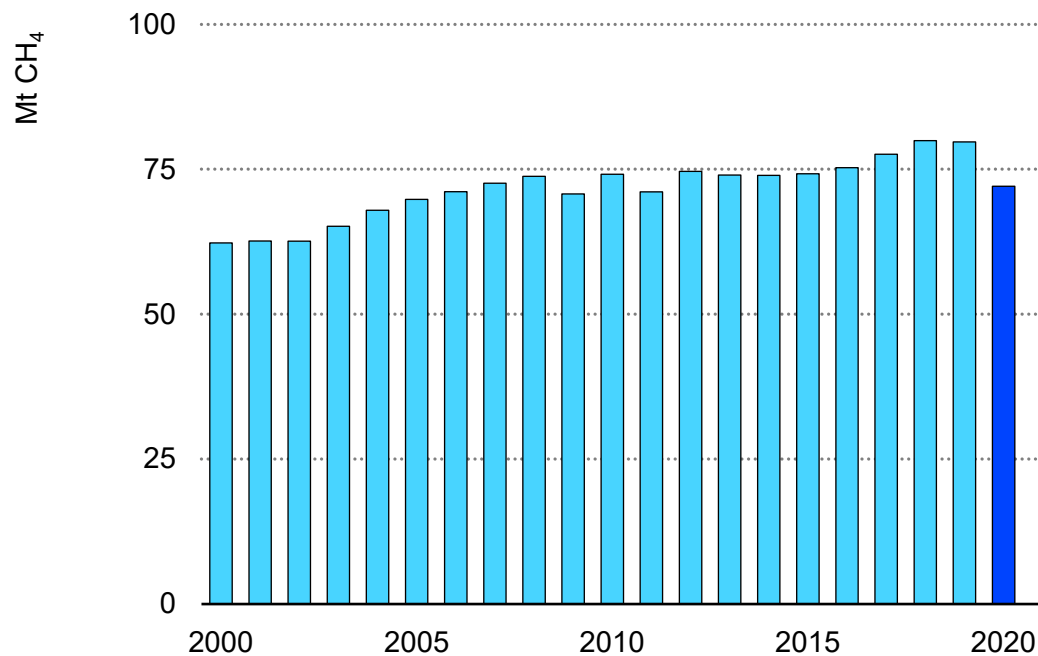
2. The **Regulatory Roadmap and Toolkit**

- detailed 'how-to' guide for policy makers and regulators seeking to cut these emissions



The dip in estimated emissions in 2020 is mainly due to lower activity

Estimated oil and gas sector methane emissions 2000-2020



Production declines in some emissions-intensive producers (Libya, Venezuela) & reduced shale activity bring down estimated emissions by 10% in 2020, but structural reductions will be essential to make 2020 a turning point

Integrating satellite data on large-scale leaks

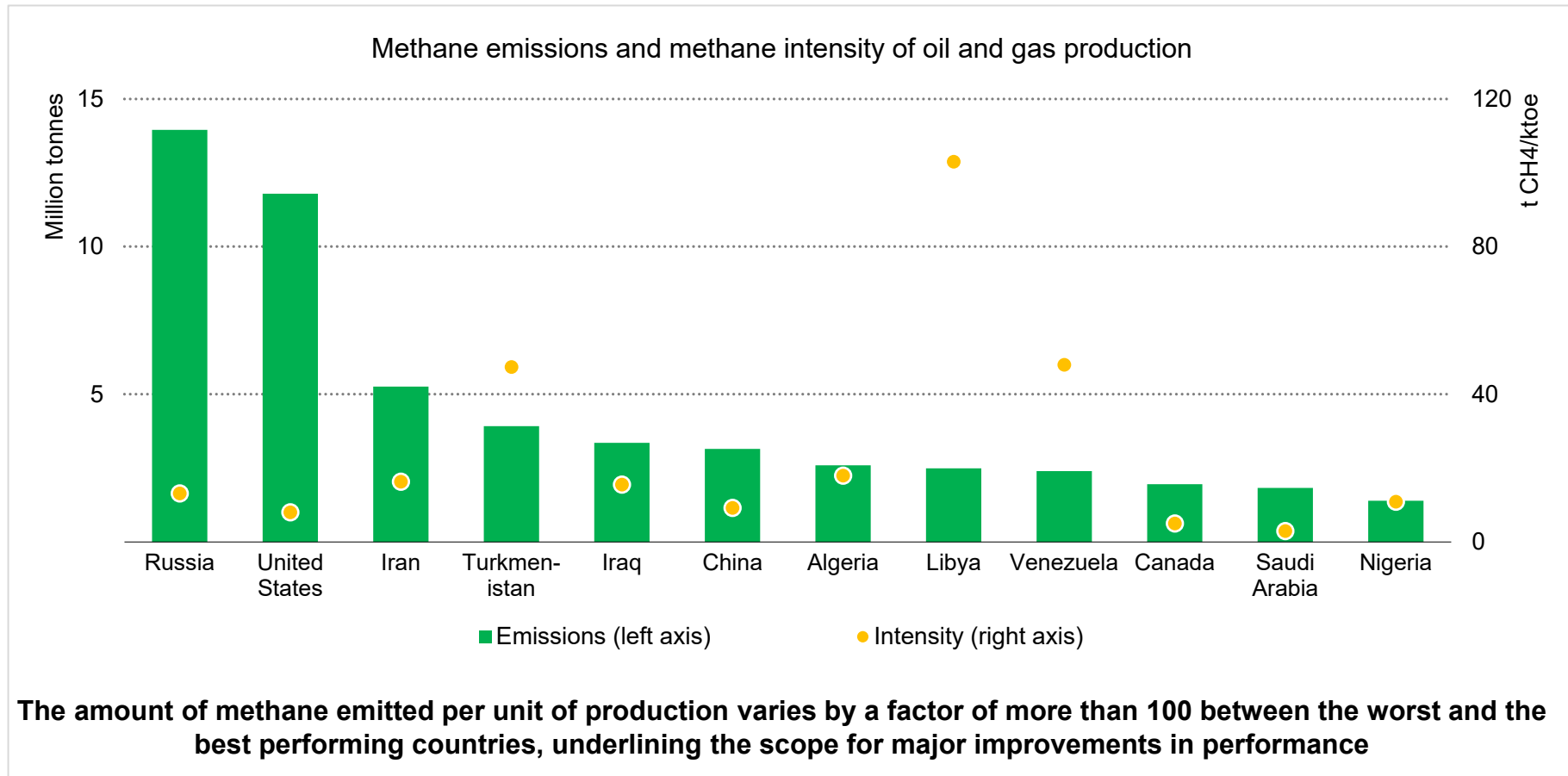
Large methane emissions from oil and gas operations detected by satellite, 2020



Source: Kayrros analysis based on modified Copernicus data.

Around 5.5 Mt of satellite-observed leaks are included in the new Tracker; existing approaches do not provide readings around the equator, in northern areas, or offshore operations, but this is a very dynamic area

The size & intensity of estimated emissions ranges widely by country



The IEA Regulatory Roadmap and Toolkit



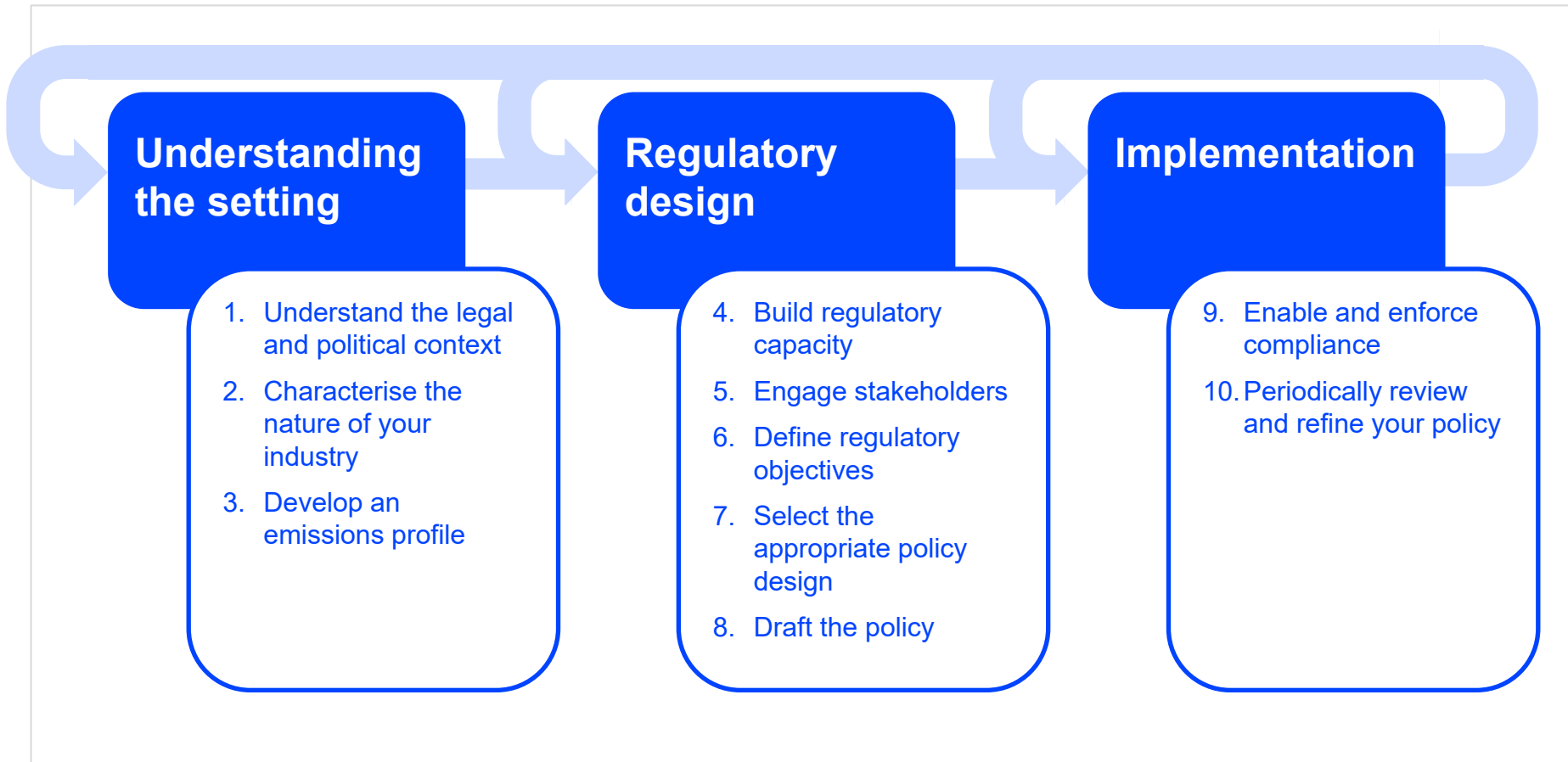
Methane policies in selected producing countries categorised by regulatory approach

	Prescriptive approach				
	Permitting requirements	Leak detection and repair	Restrictions on flaring or venting	Technology standards	Enforcement and related provisions
Brazil	●		●	●	●
Canada	○	●	○	●	○
China	●		●	●	●
Iraq	●				●
Iran	●				
Mexico	●		●	●	●
Nigeria	●		●	●	●
Norway	●		●		●
Russia	●				
Saudi Arabia	●			●	●
United Arab Emirates	●				●
United States	○	●	○	●	●

Note: Full circle = national-level policy; open circle = subnational policy.

Policies that affect methane already exist in many jurisdictions. Governments and regulators seeking to take action on methane abatement can look to this existing experience for inspiration and lessons learned

A ten-step guide for policy makers



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