Methane Management in Extractive Industries

Objectives

The objective of this survey is to provide an initial overview of how methane emissions in extractive industries are monitored, measured, recorded, and reported across the extraction, processing and transport segments of the respective value chains.

The survey is being conducted anonymously and its results will be aggregated into a summary report to inform the development of Best Practice Guidance in Managing Methane Emissions. Respondents who advise of their contact details will be invited to engage with UNECE on any follow-up work to develop the guidance.

Survey Questions

1.	You are act	tive in which	industry?	(More than on	e answer is possible	(ڊ
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a.	Upstream	Oil and	/or Gas1
a.	Opstream	Oli aliu	/ Oi Gas

- b. Downstream Oil
- c. Downstream Gas
- d. Midstream Oil
- e. Midstream Gas
- f. Coal

2.	Do you	monitor methane or other gaseous hydrocarbon emissions in your operations?
	a.	Yes
	b.	No
	c.	No, but we calculate emissions (please elaborate)

- 3. Do you report the results of your monitoring operations?
 - a. Yes
 - b. No
- 4. Is the monitoring and/or the reporting mandated by law or regulation?
 - a. Yes (please specify which law or regulation below)
 - b. No
 - c. In some operational regions, but not all

Comments:

¹ Upstream refers to exploration and production and includes searching for potential underground or underwater crude oil and natural gas fields, drilling exploratory wells, and subsequently drilling and operating the wells that recover and bring the crude oil and/or raw natural gas to the surface.

5.	What is the primary purpose of the monitoring and reporting program? (More than one			
	answer is possible, but please indicate which is the primary purpose)			
	a. Financial - Avoiding commercial losses			
	b. Safety			
	c. Environmental			
	d. Mandated by law			
	e. Other (please specify)			
	i			
	ii			
6.	How do you define methane or other gaseous hydrocarbon emissions? (More than one			
	answer is possible)			
	a. Fugitive Leaks - Unintentional leaks from pipelines, valve seals, et al.			
	b. Natural accumulations of methane in the resource ²			
	c. Controlled releases - Intentional venting, blow downs, at al.			
	d. Third party plant damage releases			
	e. Other ()			
7.	Do you distinguish between methane and other gaseous hydrocarbons in your monitorin			
	and reporting?			
	a. Yes			
	b. No			
8.	If yes, what other gaseous hydrocarbons do you include in your monitoring programme?			
	(More than one answer is possible)			
	a. Ethane			
	b. Propane			
	c. Butane			
	d. Other?			
9.	Which components of your facilities do you monitor?			
	a			
	b			
	C			
	d			
	e			

² This terminology is generally a reference to methane found in reserves where it is not the primary product being extracted. Examples of this include methane found in coal or oil reserves.

10. Why th	hose particular components?
11. Which	processes do you monitor? Add additional lines if required.
	
	
	
d.	
e.	
12. Why th	hose particular processes?
	is the frequency of your monitoring program and does it vary based on component,
	otential risk level, etc.? (More than one is acceptable but provide below the
-	nation behind the difference)
	Continuous
	•
	Weekly
	•
f.	Annually
g.	Our systems do not emit methane
omments	
14. How d	o you standardize methane emissions in your organization?

15.	Is the methane emissions standardization mandated by law or regulation? a. Yes (please specify based on which law or regulation in comments) b. No
ommei	nts:
	What methods/technology(ies) do you use to monitor methane emissions? (Please explain if necessary)
	a. Measurement of all equipment and assetsb. Calculate emissions [based on throughputs or some other accepted approach]c. Combined approach of monitoring and calculations
ommei	nts/Additional information:
17.	Are the methods/technologies mandated by law/regulations? a. Yes (please specify which law or regulation below)
	b. No
ommei	nts:
10	Why ware those methods /technologies choses?
ıχ	Why were those methods/technologies chosen?

19.	What %	6 of methane emissions are included in a Maximum Allowable Emission Target?
20	\M/hon	using emissions factors for calculations, what database(s) do you use?
20.		EPA
	_	UN
		Company data
		Other (please specify)
21.	How of	ften is the monitoring equipment calibrated
		Weekly
		Monthly
	c.	
	d.	Other
22.	How a	re the monitoring results recorded?
	Level o	f detail/disaggregation (More than one answer is possible)
	a.	geographical region
	b.	facility
	C.	component
	d.	time period
	e.	emission type
23.	How a	re the monitoring results recorded?
	What ι	units are used to record the results?
24.	How a	re surveys conducted?
	a.	Primarily by employees
	b.	Primarily by employees with third party auditing
	c.	Primarily by third party providers
	d.	Primarily by third party providers with company auditing

25. How are the results aggregated?

- a. Company-wide emissions
- b. Equipment type

d.	Other
	i
26. How ar	re your results reported? (More than one answer is possible)
a.	only internally
b.	only for regulatory purposes
c.	national Inventory
d.	publicly available (if so, please provide links)
e.	CCAC-OGMP
f.	OGCI
g.	Other ()
27. What o	organisations do you cooperate with on this topic?
a.	
b.	
c.	
d.	
e.	
a. b. c. d.	erganisations do you cooperate with on this topic?

c. Not aggregated