

Appendix F: Better Technical Information for Emissions Control Planning for Oil & Gas Sources

In the context of the WRAP Work Plan, each appendix describes a project or topical activities, to include a SoW or problem statement, summary budgets, deliverables

Introduction

xxxx activities are proposed in this Appendix, a standing Oil & Gas Workgroup to provide coordination and technical support for affected WRAP member agencies, and yyyy technical studies in the 201x-201x time period with subsequent further work planning from results of those studies.

Oil & Gas Workgroup

Activities

Deliverables

(see Deliverables and Timeline, and fill in Budget Table at the end of this Appendix)

Study #1 - Problem Statement

Activities

Deliverables

(see Deliverables and Timeline, and fill in Budget Table at the end of this Appendix)

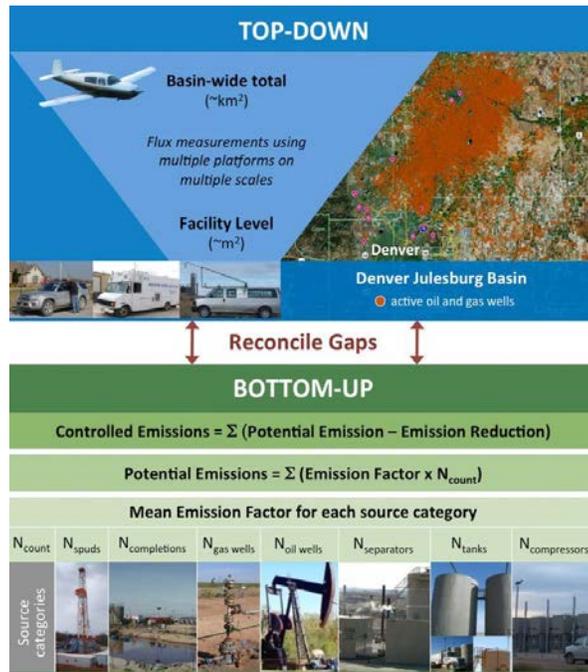
Study #2 - Problem Statement

Activities

Deliverables

(see Deliverables and Timeline, and fill in Budget Table at the end of this Appendix)

Integrating Different Kinds of Emissions Information - Research Needs



Source: NREL

NATIONAL RENEWABLE ENERGY LABORATORY

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Top-down:

- Source sector differentiation
- Representative sampling
- Accuracy
- Gas composition profiles
- Downscaling to sources

Reconcile Gaps

Bottom-up:

- "Fat tails" emission distribution
- Missing sources
- Representative samples
- Activity data
- Uncertainty characterization.

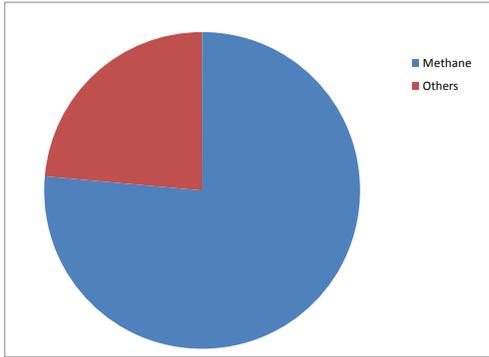
a standing Fire Emissions Workgroup, two technical studies in 201x-201x time period with subsequent further work planning from the results of those studies, and ongoing oversight of WRAP Fire Emissions Tracking System (FETS) operations.

Add methodologies and proposed study(ies)

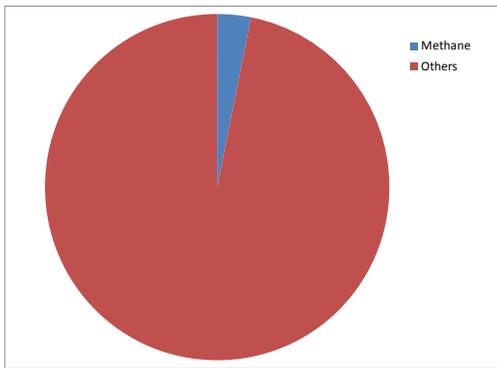
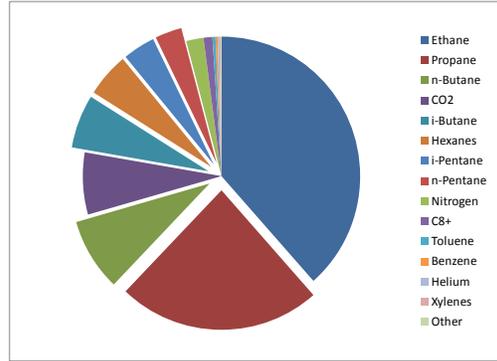
Use of different gas compositions for determining emissions - in the absence of a wellhead or casing gas composition you could use the wet gas analysis from a separator to determine casing gas emissions, but others did not want to do this. Now though, it seems they may want to combine everything into a single gas composite analysis for routing gas to combustors from different sources. Even if you use the EPA destruction efficiency for VOCs of 95% from combustors, the NO_x and CO emissions from these sources are based on the gas heat content.

Some or many states have and/or can provide the information needed, but smaller program states like NM or MT may not be able to do so because of limits on the number of personnel. Do you think this is a regional project that we could have a (highly qualified) contractor get the composition data from state databases without using a bunch of state staff time, and then map it up by Basin?

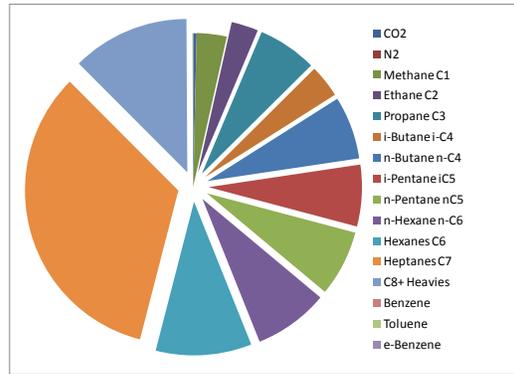
In a regional project, using a contractor who understands the differences from one basin to the next, formation to formation, field to field is needed to help with this process. Tie each state's experience in issuing air quality permits to the O&G industry producers. Identify if and how it might be a direct cooperative effort with industry like that done with the WRAP Phase I through Phase IV projects over several years.



Conventional Gas
(Vented/Fugitive Sources)



Flash Gas
(Condensate and Oil Tanks)



Summary Budget 2014-18

\$xx,xxx over the timeframe of the Work Plan is estimated to be needed and should be allocated to support the Oil & Gas Workgroup meetings and accomplishing these projects.

Project	Funding Year									
	2014		2015		2016		2017		2018	
	Contract \$	Staff Support (% FTE)	Contract \$	Staff Support (% FTE)	Contract \$	Staff Support (% FTE)	Contract \$	Staff Support (% FTE)	Contract \$	Staff Support (% FTE)
Oil & Gas Workgroup										
Total										

Deliverables and Timeline

1. Conduct at least quarterly calls and annual in-person meetings of the Oil & Gas Workgroup to manage projects, coordinate among WRAP member agencies about Oil & Gas emissions data collection and analysis, and address air quality analysis and planning activities.
2. Manage the projects.....
3. Assess the need to conduct additional study projects on an annual basis for the Technical Steering Committee. Deliver work products and project results as directed by the TSC and WRAP Board.
4. Advise the TSC and WRAP Board on issues and developments in the management and impacts of Oil & Gas emissions.