

Flaring vs. Venting to Reduce Greenhouse Gas Emissions in the OCS

Agenda

9:00 – Panel Introductions & Opening Remarks

9:15 – Best Practices and Readily Available Technologies to Minimize Offshore Platform Natural Gas Emissions

Scott Bartos and Donald Robinson
EPA and ICF International

9:45 – International Best Practices for Flaring Reduction

Bent Svensson and Francisco Sucre
World Bank Gas Flaring Reduction Partnership

10:15 – Flare vs. Vent Drivers

Allen Verret and Greg Sinclair
Offshore Operators Committee

10:45 – Flaring, Venting and Greenhouse Gases

Holly Hopkins, American Petroleum Institute

11:15 – Open Microphone

11:45 – Closing Remarks



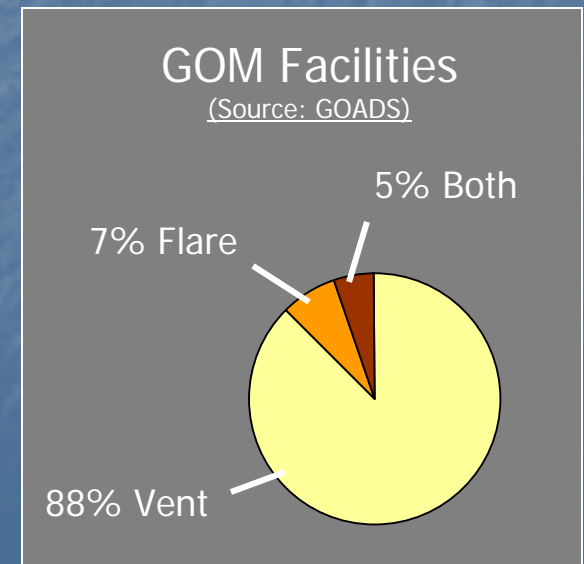


Purpose

Feedback – Should BOEMRE require operators to flare instead of vent?

Requested Feedback Topics:

- Impact of flare vs. vent on GHG emissions
- If required, which facilities should it apply to?
- Retrofitting feasibility
- Flare tip technology
- Emissions reduction
- Worldwide best practices
- Safety issues
- Economic analysis variables
- Specific equipment that should be exempted



Government Accountability Office Recommendations

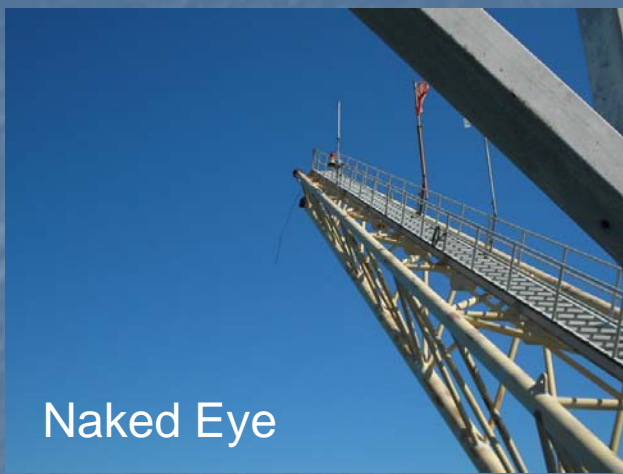
2004 & 2010



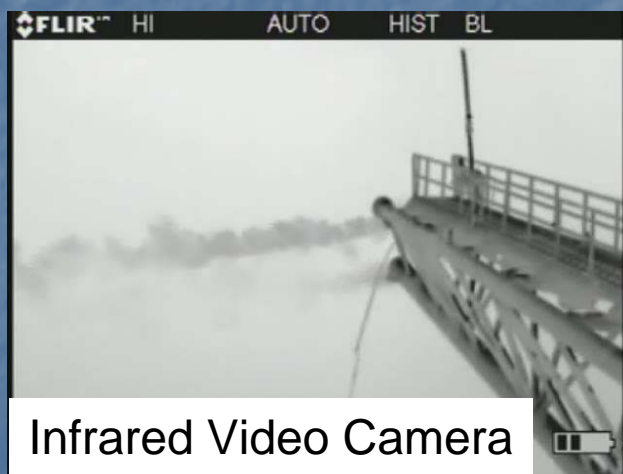
Flare/vent meters	Implemented in 2010
Separate flaring & venting on OGOR reports	Implemented in 2010
Flaring instead of venting	Today's Workshop
Reconcile differences between OGORs & GOADS	Future Implementation
Require capture of lease use gas where economic	Under Study
Require equipment that minimizes methane emissions on new facilities (at Plans stage – e.g. DOCD)	Under Study
Require equipment that minimizes methane emissions on existing facilities (where economic to replace)	Under Study
Expand use of infrared cameras	In Progress

Venting

(Primarily CH₄)



Naked Eye



Infrared Video Camera

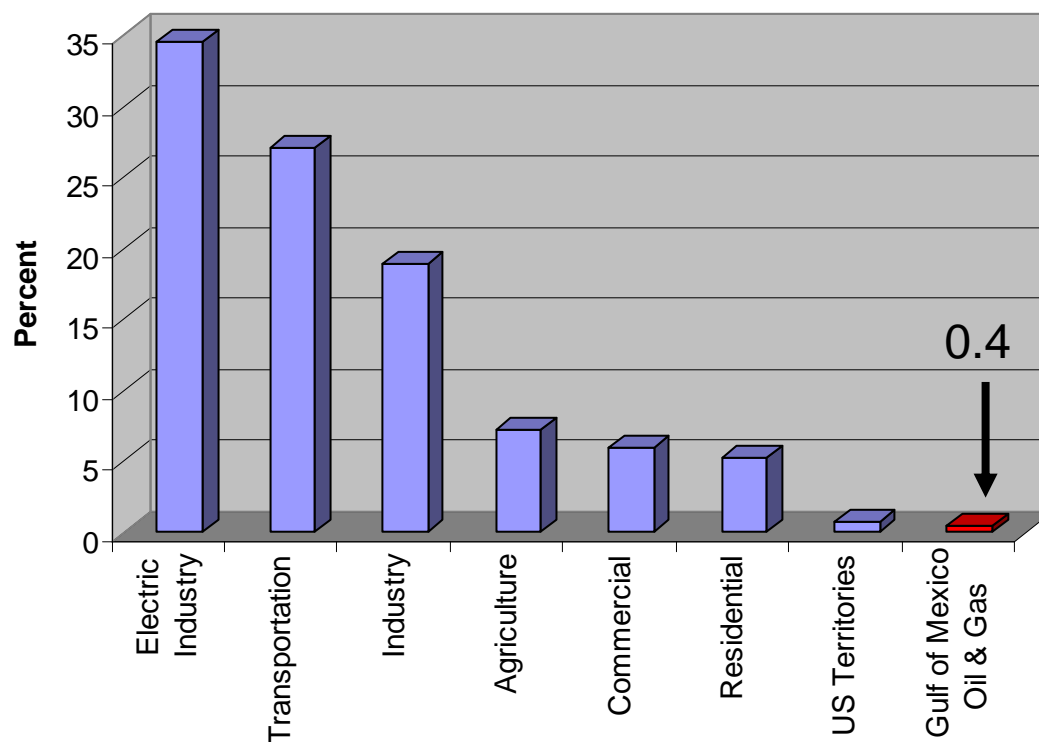
Flaring

(Primarily CO₂)

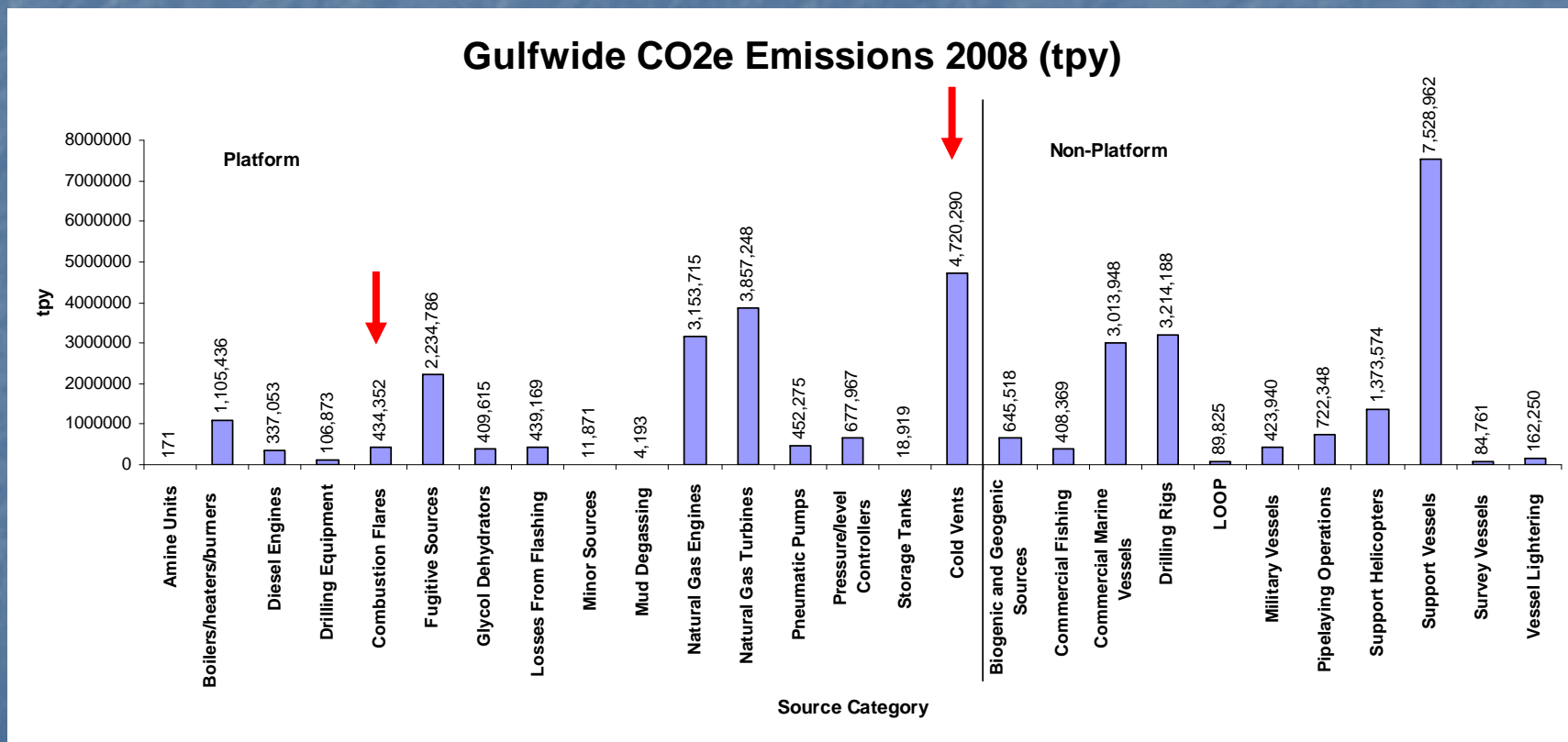


Sources of US Greenhouse Gas Emissions

US Greenhouse Gas Emissions
Source: EPA and GOADS

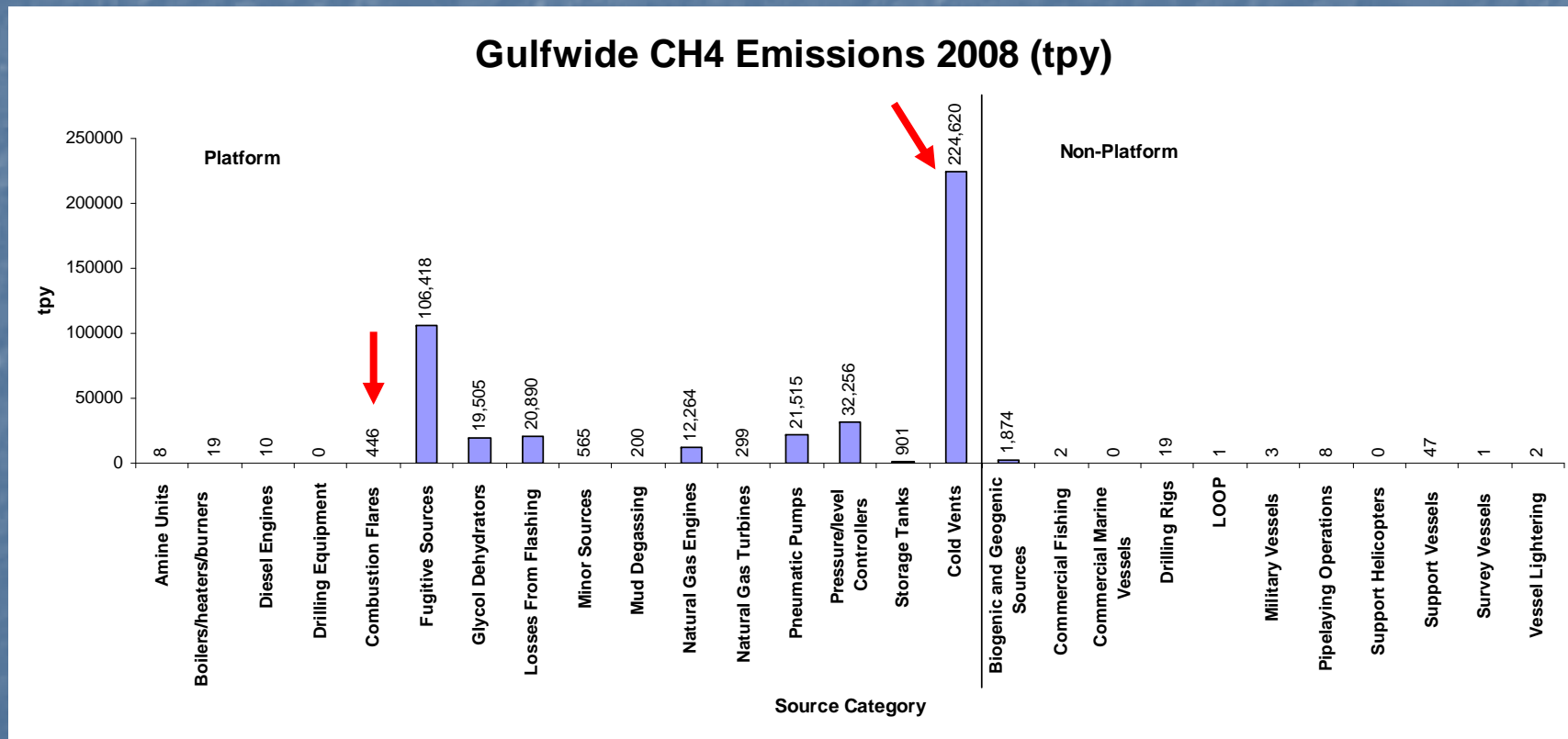


Gulf of Mexico CO₂ Equivalent Emissions



Source: GOADS 2008

Gulf of Mexico Methane Emissions



Source: GOADS 2008

Closing Remarks

- Post presentations on website
- Written comments next 30 days
 - www.regulations.gov
 - Keyword/ID = Docket ID BOEM-2010-0042
- Evaluate feedback
- Economic analysis
- Decision
- Proposed Rule or ANPR (if applicable)