

2007 Oil & Natural Gas Industry Survey Training



**California Air Resources Board
Bakersfield, CA
March 26, 2009**

Tentative Agenda

9:00-9:30am

Presentation

9:30-10:00am

General Questions

10:00-12:00pm

Walk through Survey as
a Group or Break Out

Presentation Outline

- What is AB 32?
- ARB AB 32 Oil & Gas Measures
- Oil & Gas Industry Survey
- Frequently Asked Questions



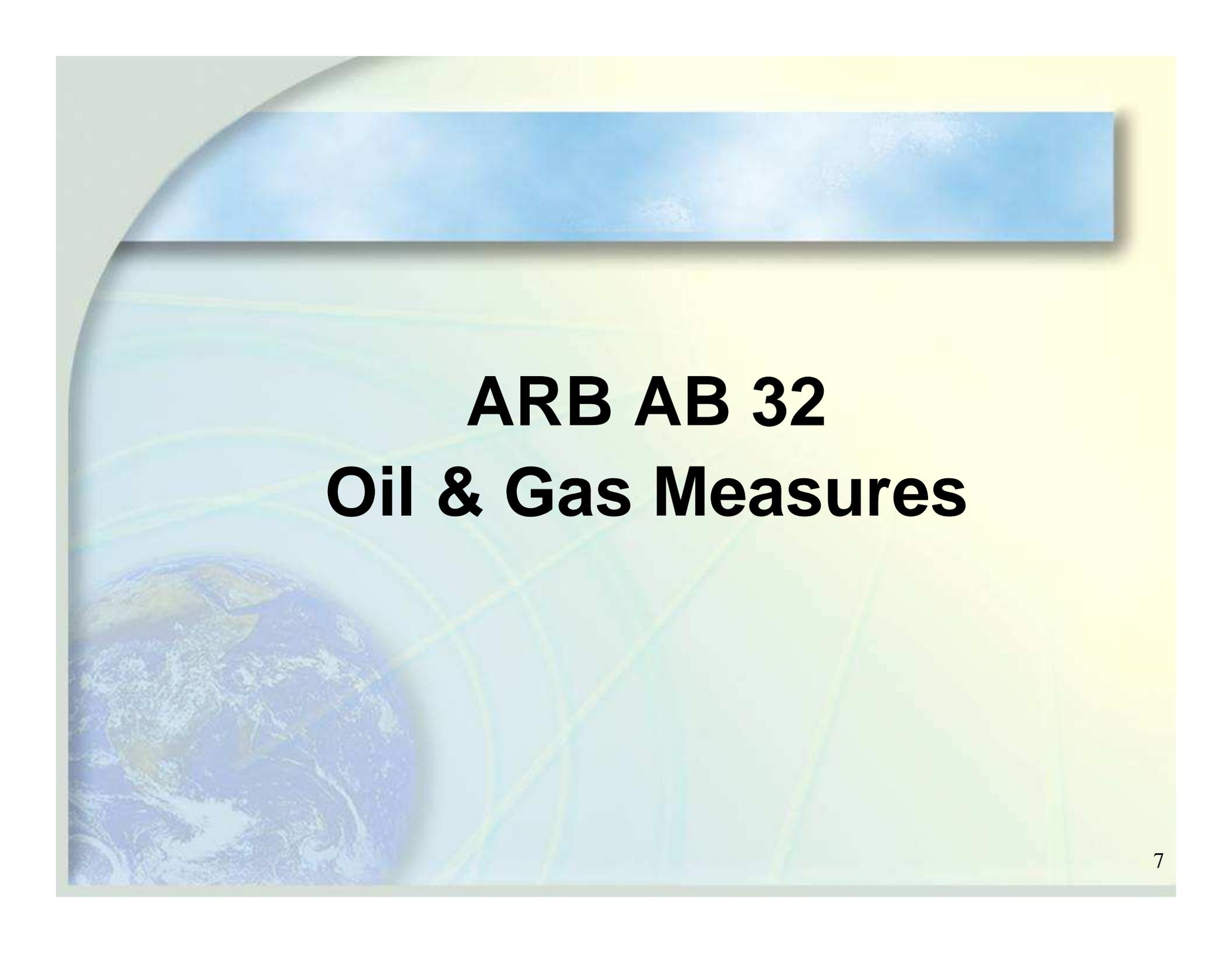
What is AB 32?

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- California Global Warming Solutions Act of 2006
- Enacted to monitor and regulate Greenhouse Gas (GHG) emissions
 - Primarily CO₂ and CH₄ from Oil & Gas operations
- Requires that 2020 GHG emissions be reduced to 1990 levels
- ARB is the primary agency directed to carry out much of this program

What is AB 32?

- Scoping Plan
 - Adopted by ARB in December 2008
 - Contains general concepts of measures needed to achieve AB 32 goals
- Measure specifics still to be developed
 - Will follow usual ARB regulatory process
 - Need to be adopted by 2011; effective before 2020

The background features a stylized globe on the left side, partially obscured by a blue horizontal bar at the top. The globe shows continents and oceans in shades of blue and green. Overlaid on the globe and the rest of the page are several thin, curved lines in light blue and green, creating a sense of motion or energy. The overall color palette is light and airy, with a gradient from yellow at the top to light blue at the bottom.

ARB AB 32

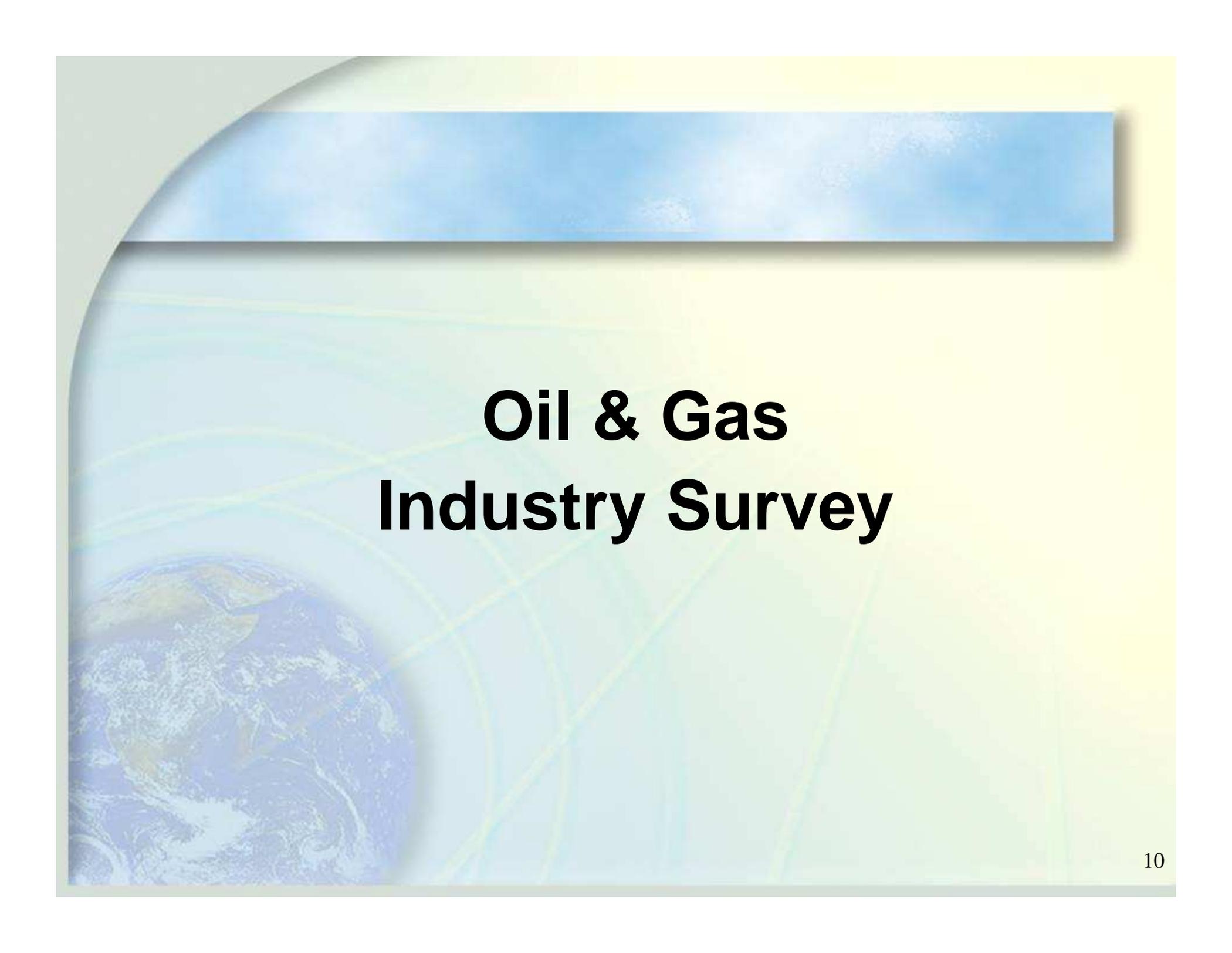
Oil & Gas Measures

ARB AB 32 Oil & Gas Measures

- New measures to reduce fugitive CH₄
- First need to estimate baseline emissions using survey results and emission factors
 - For both CO₂ and CH₄
- Work with industry to explore ways to reduce emissions

ARB AB 32 Oil & Gas Measures

- **Production, Processing, and Storage:**
 - Extraction, Production, Processing Facilities
 - Drilling and Well Workover Operations
 - Crude Oil Storage, Pipelines, Loading Operations
 - Underground Natural Gas Storage
- **Natural Gas Transmission and Distribution:**
 - Pipeline Compressor Stations
 - Metering and Regulating Stations
 - Distribution Pipelines

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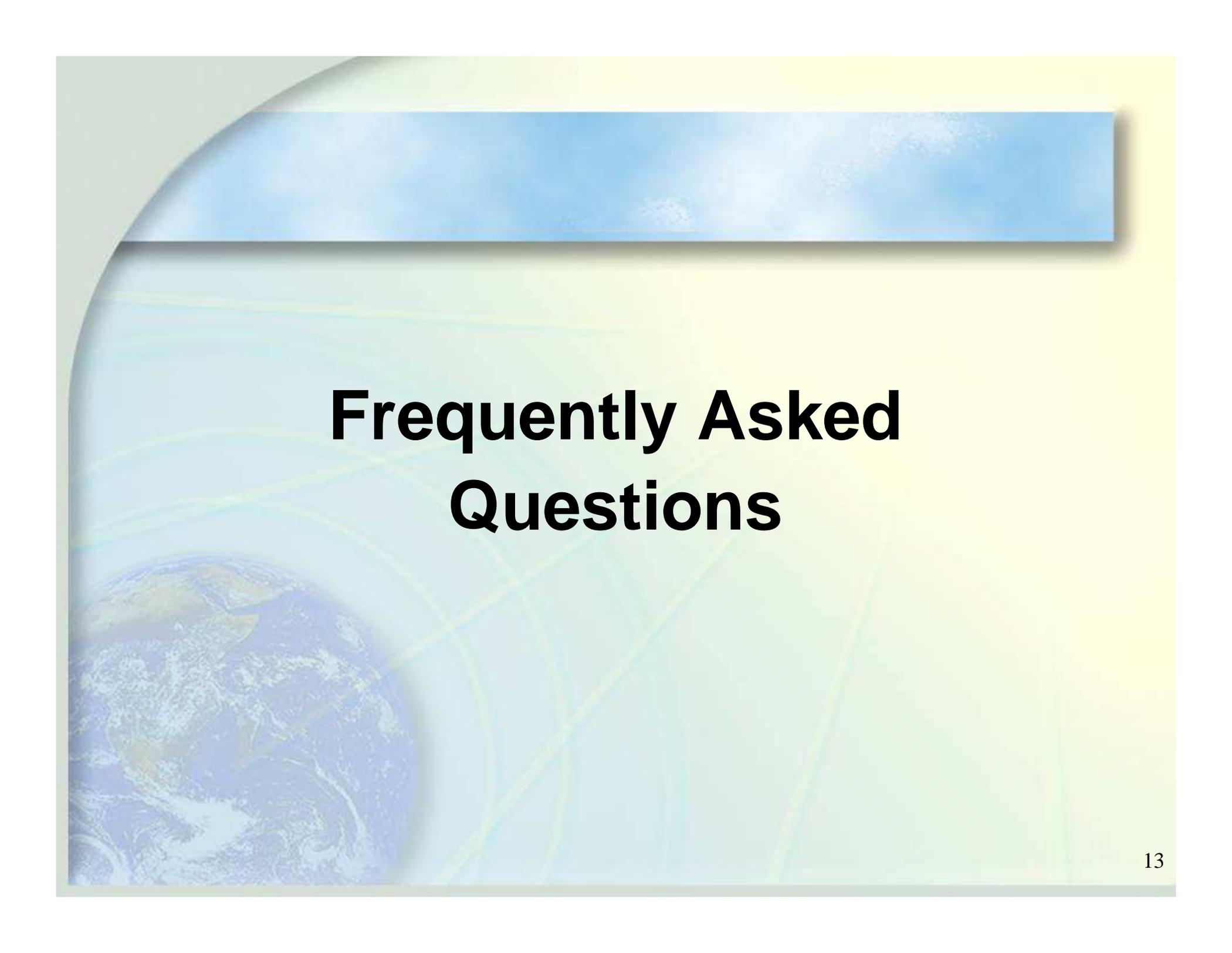
Oil & Gas Industry Survey

Oil & Gas Industry Survey

- Need survey to get a good 2007 estimate of GHG emissions
- District data typically does not include GHGs
- District data limited, non-uniform
- Survey will help us determine the state of technology

Oil & Gas Industry Survey

- Survey developed with industry input
- Mailed out February 19, 2009
- Due April 30, 2009
- Beneficial for ARB and industry to get a good response rate to develop an accurate baseline
- ARB Staff available to help

The background features a stylized globe on the left side, showing continents and oceans. Overlaid on the globe and the rest of the page are several thin, curved lines in shades of blue and green, creating a sense of motion or a network. The overall color palette is light and airy, with a gradient from pale yellow at the top to light blue at the bottom.

Frequently Asked Questions

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Do we need to fill out this survey?

Any company that conducts operations within the oil and natural gas sector must complete a survey.

This includes:

- *Drilling and well workover companies*
- *Loading operations and storage*
- *Extraction, production, and processing facilities*

All entities are included, regardless of company size

Frequently Asked Questions

Do we need to fill out all of the tables?

Not every company will need to complete all of the tables.

If a table does not pertain to your organization (e.g., no storage tanks), please leave those tables blank.

Drilling and workover operations may only need to complete Tables 1 and 5

Frequently Asked Questions

What if we do not have component counts?

Many companies do not have current counts of components (i.e., fittings or controllers)

We have given operators the option of using any convenient means of estimating components.

The accuracy of the estimation methods can have an impact upon an accurate emissions estimate.

Frequently Asked Questions

Can we have more time to complete this?

We understand that some operators may want more time.

We are willing to grant extensions, but please call or send an e-mail requesting more time.

If necessary, submit a partially completed survey (e.g., everything except component counts) by April 30, with the rest to follow.

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