



Project Status Update

CFE-06-09: Developing Consistent Methodology for Estimation and Evaluating Greenhouse Gas Emissions Reductions Potential for the Liquefied Natural Gas Sector

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on behalf of American Petroleum Institute

APP CFE Task Force Meeting

Seoul, Korea

March 31 – April 1, 2009

CFE-06-09 Status Update

Evaluation and Reducing Emissions in Producing, Processing, and Transporting Natural Gas



• Objectives

- Develop and publish technically sound and transparent methods to estimate GHG emissions from LNG operations
- Identify cost-effective best management practices and technologies to achieve reductions from key sources identified
- Compare the potential for GHG emission reductions from identified technologies and practices as compared to medium-term business-as-usual emission projections
- Estimate GHG emissions for select case-study examples to highlight key contributing sources to overall GHG emissions from LNG operations



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Evaluation and Reducing Emissions in Producing, Processing, and Transporting Natural Gas



•Tasks

- 1. Establish working group of interested companies and compile relevant background literature – **COMPLETED**
- 2. Identify and undertake necessary technical work – **IN PROGRESS**
- 3. Develop and test comprehensive emissions estimation methodology appropriate for LNG facilities – **3rd-4th Quarter 2009**
- 4. Publish emissions methodology and reach out to partners for implementation of these methods in their regions – **4th Quarter 2009 or 1st Quarter 2010**
- 5. Develop case study examples to test the impact of new technologies and best-management practices and quantify emissions reduction opportunities – **CY 2010**



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• Task 1 - Completed

- Working Group established by API composed of U.S. companies.
- Technical background information compiled

• Task 2 - In Progress

- Two meetings with the Working Group held in U.S. to discuss technical operational details that impact GHG emissions.
- Development of draft Emissions Estimation Methodology document
 - Definition of sector boundaries
 - Examination of emissions from LNG operations chain
 - Account for regional differences

Unexpected delays encountered in obtaining GHG emissions data from Work Group members



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- Data Request for Input from APP Countries
 - Invitation to APP members to join Work Group
 - Data Request workbook with emissions estimations from
 - Fuels
 - Equipment specific combustion factors
 - Vents and storage
 - Fugitive methane
 - Equipment specific shipping and transit factors
 - Loading, unloading, and ballasting factors
- Workshop proposal
 - 6-9 months from CFE meeting
 - Engage international partners, discuss methodologies and data gaps from LNG sector.



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• Next Steps

CY 2009

- Complete emissions estimation methodologies document with input from APP Partners
- Test emissions estimation methods in appropriate LNG operations facilities
- Publication of document, outreach to partners to seek implementation of methods in regions

CY 2010

- Case Study examples to test impact of best management practices



Join the Work Group!



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