



Energy Summit 2014

The Future of Louisiana Energy and the Environment

Environmental Stewardship Efforts of the Energy Industry

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Outline

Greenhouse Gases/Regulating Methane
Ozone Standard Revision
Hydraulic Fracturing
New Technologies and Opportunities

Greenhouse Gas Activities

Upstream

Well Completions

Storage Tank Flash Gas

Pneumatic Valves

Valve Packing Leaks

Reciprocating Compressor Packing Leaks

Greenhouse Gas Activities

Pipelines/Midstream

- Recent DOT/DOE White Papers
- Similar Emphasis Areas as Upstream

Greenhouse Gas Activities

Refineries

- Third Largest GHG Emitting Sector
- Energy Costs Main Driver in Minimizing Emissions
- EPA – GHG Rules for Refineries May Not be Needed

Ozone Standard Activities

DEQ/Industry work in progress

- Modeling “future” Louisiana emissions
- Amending permit regulations to allow emissions banking and trading statewide
- Amending permit regulations to allow cross-pollutant (NO_x and VOCs) trading

Hydraulic Fracturing Activities

- HF Chemical Disclosure Rules
- STRONGER Review for HF rules
- New API Standards
- Hydraulic Fracturing Water Treatment and Reuse
- Alternatives to Using Water for HF

New Technologies and Opportunities

- Portable Air Emission Controls/Gas Plants
- Alternative Fuels to Diesel – Natural Gas, Electricity
- Infrared Hydrocarbon Leak Detection Technologies
- New Valve Designs
- STRONGER Review State Air Rules

New Technologies and Opportunities

- Hydraulic Fracturing Water Treatment and Reuse
- Alternative Water Sources – Plant Discharge Waters?
- Remote Facility Controls
- Refracturing Older Wells
- Reducing Well Pad Footprints