

# Barriers to Implementation of Methane Emissions Reduction Projects in Gas Transmission and Distribution



Natural Gas STAR Annual Implementation Workshop  
Transmission and Distribution Panel Discussion

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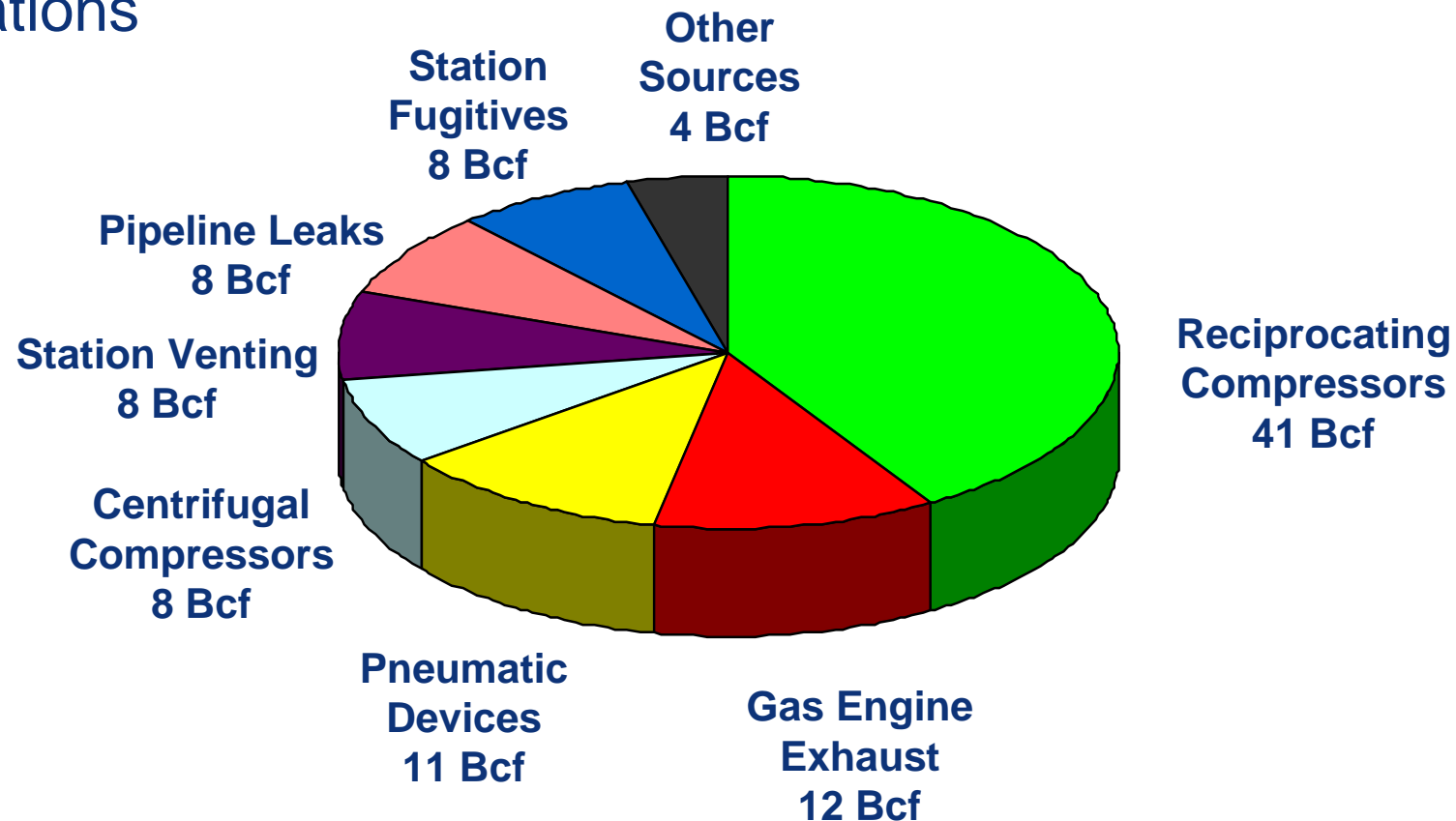


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# Why Focus on Gas Transmission and Distribution?

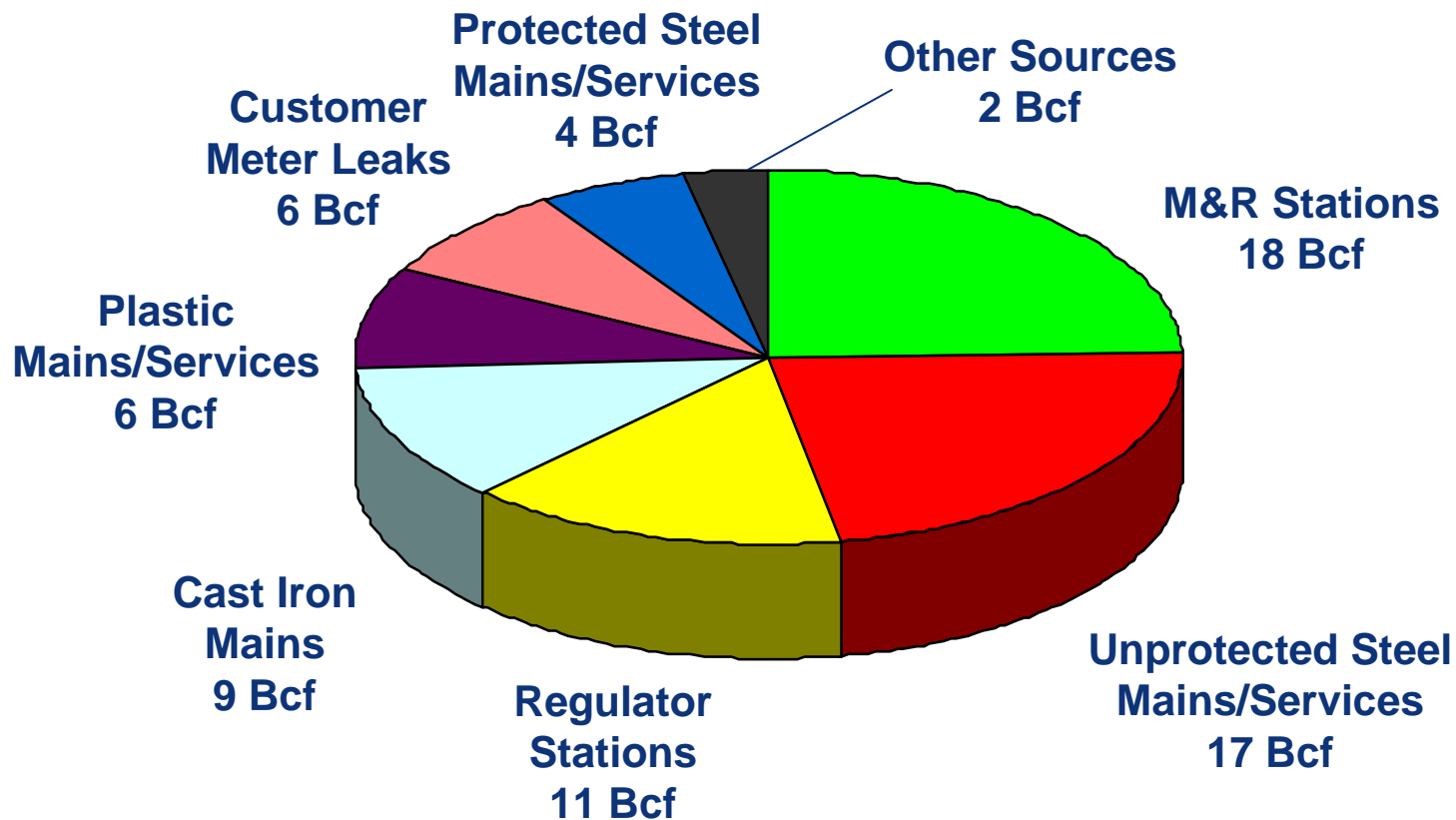
# 2007 Transmission Sector Methane Emissions

- Majority of emissions from fugitives and venting at compressor stations



# 2007 Distribution Sector Methane Emissions

Majority of emissions from underground pipe leaks and fugitives from metering and regulator stations



# Technologies Exist

## *Why aren't they more widely deployed?*

### 🔥 Financing Projects

- 🔥 How do these projects compete with other opportunities?
- 🔥 What are the constraints?

### 🔥 Competitiveness

- 🔥 Do these projects impact the competitiveness of gas to consumers or between competing pipelines?

### 🔥 Cost recovery and return on investment

- 🔥 What are the implications of “Cost of Service” rate regulation on the adoption deployment of technologies?

# Cost of Service Regulation: Overview of a Rate Case

- 🔥 Step 1: The Annual Revenue Requirement – the total revenue that must be received each year to recover costs and earn a fair return.
  - 🔥 Return on “Rate Base” plus “known and measurable expenditures” (O&M, taxes, etc.)
- 🔥 Step 2: Functionalization – Allocating costs to the services and customers that are responsible for these costs. (Cost Causation)
- 🔥 Step 3: Calculating Rates – Divide the costs that are allocated to each service by the amount of service that is expected to be sold.

***Rate Cases are quasi-judicial proceedings  
and like court proceedings.  
They take a considerable amount of resources.  
They can be adversarial!***