


Company Information																	
<p style="font-size: 1.2em; font-weight: bold; margin: 0;">Implementation Plan</p>  <p style="font-size: 1.2em; font-weight: bold; margin: 0;">Transmission Sector</p>	<p style="text-align: center; color: #ccc; font-style: italic;">Partner Address Label Here</p> <p style="text-align: center; font-style: italic; margin-top: 20px;">If the information provided above is incorrect, please make corrections below.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Company Name:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="padding: 5px;">Gas Star Contact:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="padding: 5px;">Position:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="padding: 5px;">Address:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="padding: 5px;">City, State, Zip Code:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="padding: 5px;">Telephone:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="padding: 5px;">Fax:</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td style="padding: 5px;">Email:</td> <td style="border-bottom: 1px solid black;"></td> </tr> </table>	Company Name:		Gas Star Contact:		Position:		Address:		City, State, Zip Code:		Telephone:		Fax:		Email:	
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Implementation Plan Elements

ELEMENT 1 Best Management Practices (BMPs)

The following BMPs have been identified as significant opportunities to cost effectively reduce methane emissions from the transmission sector. They were selected based on their applicability to the industry, economic feasibility, and cost-effectiveness. There are 3 core BMPs for the transmission sector:

- BMP 1** Directed inspection and maintenance at compressor stations
- BMP 2** Use of turbines at compressor stations
- BMP 3** Identify and replace high-bleed pneumatic devices

For detailed information on these BMPs, please refer to the Lessons Learned publications on the Natural Gas STAR Web site: epa.gov/gasstar/tools/recommended.html.

ELEMENT 2 Partner Reported Opportunities (PROs)

Current partners have reported many processes and technologies that are considered "other Best Management Practices" by the program. New partners are encouraged to evaluate and report current and new practices or technologies that cost effectively reduce methane emissions. PROs are made available to all partners, and can be viewed at: epa.gov/gasstar/tools/recommended.html.

ELEMENT 3 Inventory Past Reductions

Partners are encouraged to report past methane emission reductions back to 1993. Accounting for these historical reductions will create a permanent record of your company's methane emission reduction efforts. More information is available in the Spring 1999 Natural Gas STAR Partner Update, which can be viewed at: epa.gov/gasstar/newsroom/partnerupdate.html.

The Implementation Plan is designed to be a dynamic tool for Natural Gas STAR Partners to plan their program activities. As company priorities and plans shift over time, the Implementation Plan may be revised or updated by submitting a new form to the program.

ELEMENT 1 Best Management Practices

BMP 1 Implement Directed Inspection and Maintenance at Compressor Stations

A DI&M program is a system for performing routine leak detection and repair where leak measurement data from previous inspections are used to guide subsequent inspections and direct maintenance to those leaks that are cost effective to repair.

Estimated Reduction
Potential
8,540 Mcf per station

Will you be implementing this BMP? Yes No
If no, why?
 Not cost effective
 May consider at a later date
 Other _____ please describe:

If yes, at what scale will you be implementing this BMP?
 Company Wide
 Pilot Project
 Other _____

Please describe:

Activity Summary

Total number of compressor stations? _____

Total number of compressor stations at which DI&M will take place? _____

Inspection Schedule

Stations will be inspected: quarterly annually biannually other _____

Please list in detail the number of compressor stations that will implement BMP 3 in upcoming years.

Year _____	Number of compressor stations _____
Year _____	Number of compressor stations _____
Year _____	Number of compressor stations _____
Year _____	Number of compressor stations _____

Additional Information on Anticipated Plans and Projects

If additional space is needed, please continue on the back.

BMP 2 Use of Turbines at Compressor Stations

Reciprocating engines used to drive compressors throughout transmission systems release significant amounts of methane in their exhaust. Replacing these engines with turbines can reduce a large portion of these methane emissions.

Estimated Reduction Potential
0.234 Mcf/hp/hr per replacement

Will you be implementing this BMP? Yes No
 If no, why?
 Not cost effective
 May consider at a later date
 Have already implemented
 Other _____ please describe:

If yes, at what scale will you be implementing this BMP?
 Company Wide
 Pilot Project
 Other _____

Please describe:

Activity Summary

Please fill out the table below to show the total number of engines selected for BMP 3.

	Reciprocating Engines in Operation	Reciprocating Engines to be Retired	Turbines to Replace Retired Reciprocating Engines	New Turbine Installations (i.e., not Replacing Retired Engines)
Number				
Horsepower				
Fuel use (e.g., MMcf/year)				

Installation Schedule

Total number of turbines installed by the end of:

Year 1: _____ Year 2: _____ Year 3: _____ Year 4: _____

Total number of reciprocating engines retired by the end of:

Year 1: _____ Year 2: _____ Year 3: _____ Year 4: _____

Additional Information on Anticipated Plans and Projects

If additional space is needed, please continue on the back.

BMP 3 Identify and Replace High-Bleed Pneumatic Devices

Pneumatic devices used in the transmission sector actuate isolation valves and regulate gas flow and pressure at compressor stations, pipelines, and storage facilities. In the distribution sector they are used on meter runs at gate stations for regulating flow and pressure. Replacing high-bleed pneumatic devices with low- or no-bleed devices reduces or eliminates emissions and improves safety.

Estimated
Reduction
Potential

124 Mcf/yr/device

Will you be implementing this BMP? Yes No

If no, why?

- Not cost effective
- May consider at a later date
- Have already implemented
- Other _____ please describe:

If yes, at what scale will you be implementing this BMP?

- Company Wide
- Pilot Project
- Other _____

Please describe:

Activity Summary

Number of high-bleed pneumatic devices in system? _____

Number of high-bleed pneumatic devices to be replaced? _____

Replacement Schedule

Number of high-bleed pneumatic devices to be replaced by the end of:

Year 1: _____ Year 2: _____ Year 3: _____ Year 4: _____

Additional Information on Anticipated Plans and Projects

If additional space is needed, please continue on the back.

ELEMENT 2 Partner Reported Opportunities

PROs	
<p>Your company may take advantage of additional technologies or practices to reduce methane emissions. These can be reported to Natural Gas STAR as PROs. Following is a list of some of the PROs that have been reported by other Gas STAR partners, which may be applicable to your operations (for more information on these PROs, please view: epa.gov/gasstar/tools/recommended.html):</p>	
<p> <input type="checkbox"/> Use fixed/portable compressors for pipeline pumpdown <input type="checkbox"/> Use composite wrap repair for non-leaking pipeline defects <input type="checkbox"/> Install electric compressors <input type="checkbox"/> Use hot taps for in-service pipeline connections <input type="checkbox"/> Replace wet compressor seals with dry seals </p>	
PROs you will be implementing	Please describe
<p>PRO _____ At what scale will this PRO be implemented? <input type="checkbox"/> Company Wide <input type="checkbox"/> Pilot Project <input type="checkbox"/> Other _____</p>	
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ELEMENT 3 Inventory Past Reductions

An inventory of past reductions will help to create a permanent record of your past efforts.

As a first step, many new partners find it useful to inventory and document past methane emission reduction efforts. The inventory process helps companies quantify the success of their past activities and target future emission reduction efforts. Historical emission reductions identified as part of the inventory process can be reported to the Gas STAR Program.

Will you inventory past activities to include in your annual report? Yes No

If yes, please describe your company's plans for reviewing past emission reduction activities.

The Natural Gas STAR Program thanks you for your time.

Please send completed forms to:

Regular Mail

**The Natural Gas STAR Program
U.S. EPA (6207J)
1200 Pennsylvania Avenue, NW
Washington, DC 20460**

Express/Overnight Mail

**The Natural Gas STAR Program
U.S. EPA (6207J)
1310 L Street, NW
Washington, DC 20005**

Questions? Please call Roger Fernandez: (202) 343-9086 or Fax (202) 343-2202

The public reporting and recordkeeping burden for this collection of information is estimated to average 25 hours for each new response and 12 hours for subsequent responses. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

