

# Implementation Plan



# Production Sector

## Company Information

*Partner Address Label Here*

If the information provided above is incorrect, please make corrections below.

Company Name: \_\_\_\_\_

Gas Star Contact: \_\_\_\_\_

Position: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

## 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 production sector. They were selected based on their applicability to the industry, economic feasibility, and cost-effectiveness. There are 2 core BMPs for the production sector:

- BMP 1** Identify and replace high-bleed pneumatic devices
- BMP 2** Install flash tank separators on glycol dehydrators

For detailed information on these BMPs, please refer to the Lessons Learned publications on the Natural Gas STAR Web site: <<http://www.epa.gov/gasstar/techprac.htm>>.

### 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: <[www.epa.gov/gasstar/pro/index.htm#table](http://www.epa.gov/gasstar/pro/index.htm#table)>.

### ELEMENT 3 Inventory Past Reductions

Partners are encouraged to report past methane emission reductions back to 1990. 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: <<http://www.epa.gov/gasstar/news/newsletters.htm>>.

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**  
**Identify and Replace High-Bleed Pneumatic Devices**

*Pneumatic devices used to control and monitor gas and liquid flows and levels in dehydrators and separators, temperature in dehydrator regenerators, and pressure in flash tanks emit large amounts of methane into the atmosphere. Replacing these with low- or no-bleed devices reduces or eliminates emissions and improves safety.*

*Estimated Reduction Potential  
124 Mcf/year/device*

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**

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.

**BMP 2**  
**Install Flash Tank Separators on Glycol Dehydrators**

*Installing a flash tank separator in a glycol dehydrator facilitates the removal of methane and natural gas liquids from the glycol stream. The recovered gas can be put back into the pipeline, used as a fuel on-site, or flared.*

*Estimated Reduction  
Potential  
170 scf/MMcf of throughput*

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**

Number of glycol dehydrators currently equipped with flash tank separators    \_\_\_\_\_

Number of glycol dehydrators suitable for flash tank installation?    \_\_\_\_\_

**Replacement Schedule**

Number of flash tank separators to be installed 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

### Best Management Practices

#### PROs

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: <[www.epa.gov/gasstar/pro/index.htm](http://www.epa.gov/gasstar/pro/index.htm)> and <[www.epa.gov/gasstar/pro/index.htm#table](http://www.epa.gov/gasstar/pro/index.htm#table)> ):

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>☆ Install Vapor Recovery Units (VRUs)</li> <li>☆ Perform reduced emissions completions</li> <li>☆ Install electronic safety devices</li> </ul> | <ul style="list-style-type: none"> <li>☆ Install instrument air systems</li> <li>☆ Eliminate unnecessary equipment and/or systems</li> <li>☆ Install plunger lifts in gas wells</li> </ul> |
|---|--|

PROs you will be implementing	Please describe
PRO _____  At what scale will you be implementing this BMP? <input type="checkbox"/> Company Wide <input type="checkbox"/> Pilot Project <input type="checkbox"/> Other _____	_____
PRO _____  At what scale will you be implementing this BMP? <input type="checkbox"/> Company Wide <input type="checkbox"/> Pilot Project <input type="checkbox"/> Other _____	_____
PRO _____  At what scale will you be implementing this BMP? <input type="checkbox"/> Company Wide <input type="checkbox"/> Pilot Project <input type="checkbox"/> Other _____	_____
PRO _____  At what scale will you be implementing this BMP? <input type="checkbox"/> Company Wide <input type="checkbox"/> Pilot Project <input type="checkbox"/> Other _____	_____

**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.*