

Natural Gas STAR Annual Report - Transmission Segment

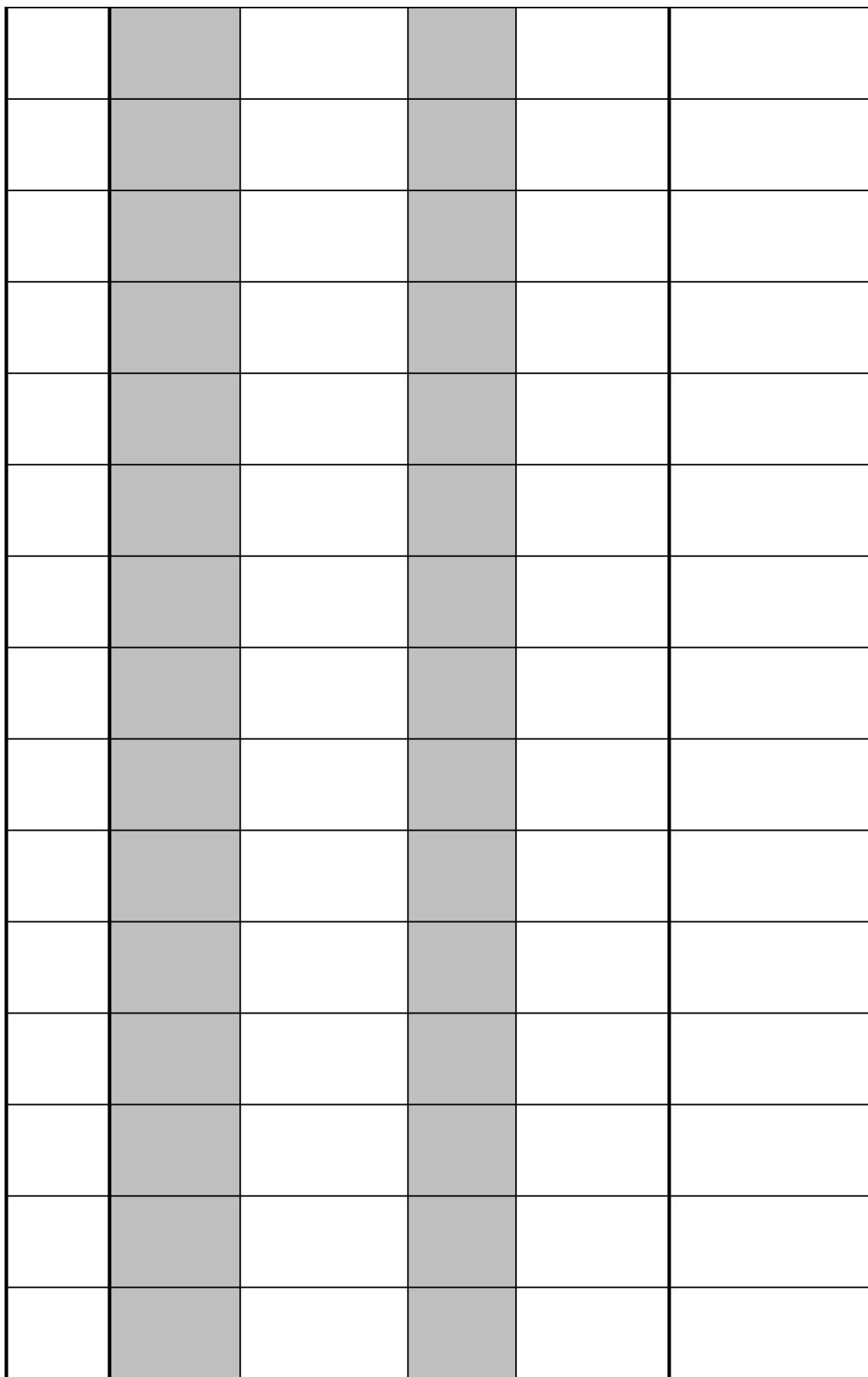
FORM VERSION: REPORTING SEASON 20XX

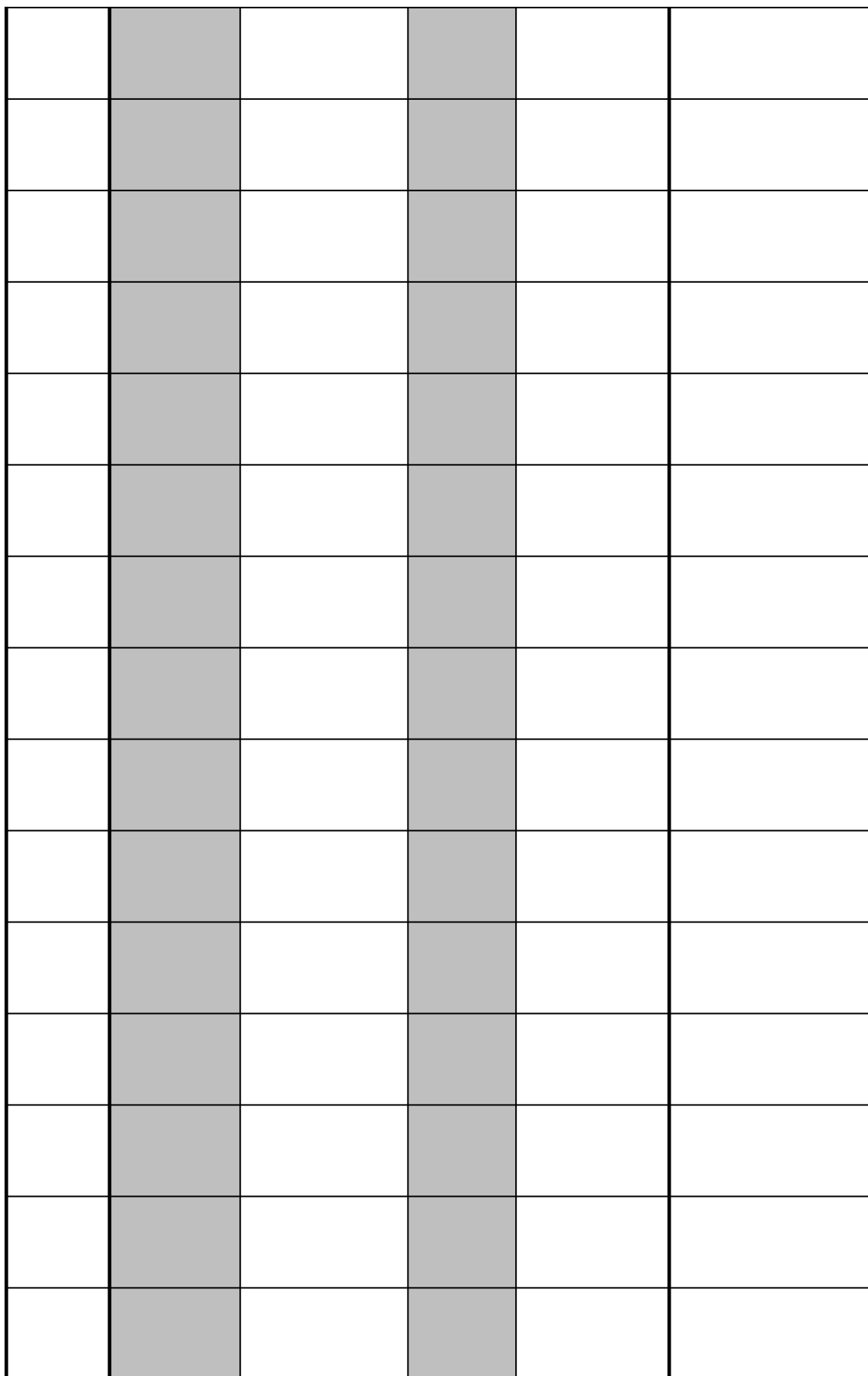
Partner Name	
Reporting Year	20XX

Use the Table of Contents below to navigate to the different tabs of the form. You can use column B to indicate if you reported data on a specific tab.

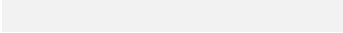
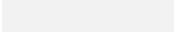
Distribution Emission Sources	Data Reported	Information
Compressor Engines		Replace reciprocating engines with turbines
Equipment Leaks		Directed inspection and maintenance at compressor stations
Pneumatic Controllers		Convert high-bleed controllers to low-bleed; convert high-bleed or low-bleed controllers to zero-emitting controllers; remove controllers from service with no replacement
Additional Transmission Activities		Use this tab to report all other methane reductions in the Transmission segment. You will be able to select the technology/practice used from the list of Natural Gas STAR Partner Reported Opportunities. If the activity you are reporting is not included in the list, please contact EPA at GasSTAR@epa.gov

The public reporting and recordkeeping burden for this collection of information is estimated to average 51 hours for each new response and 25 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.





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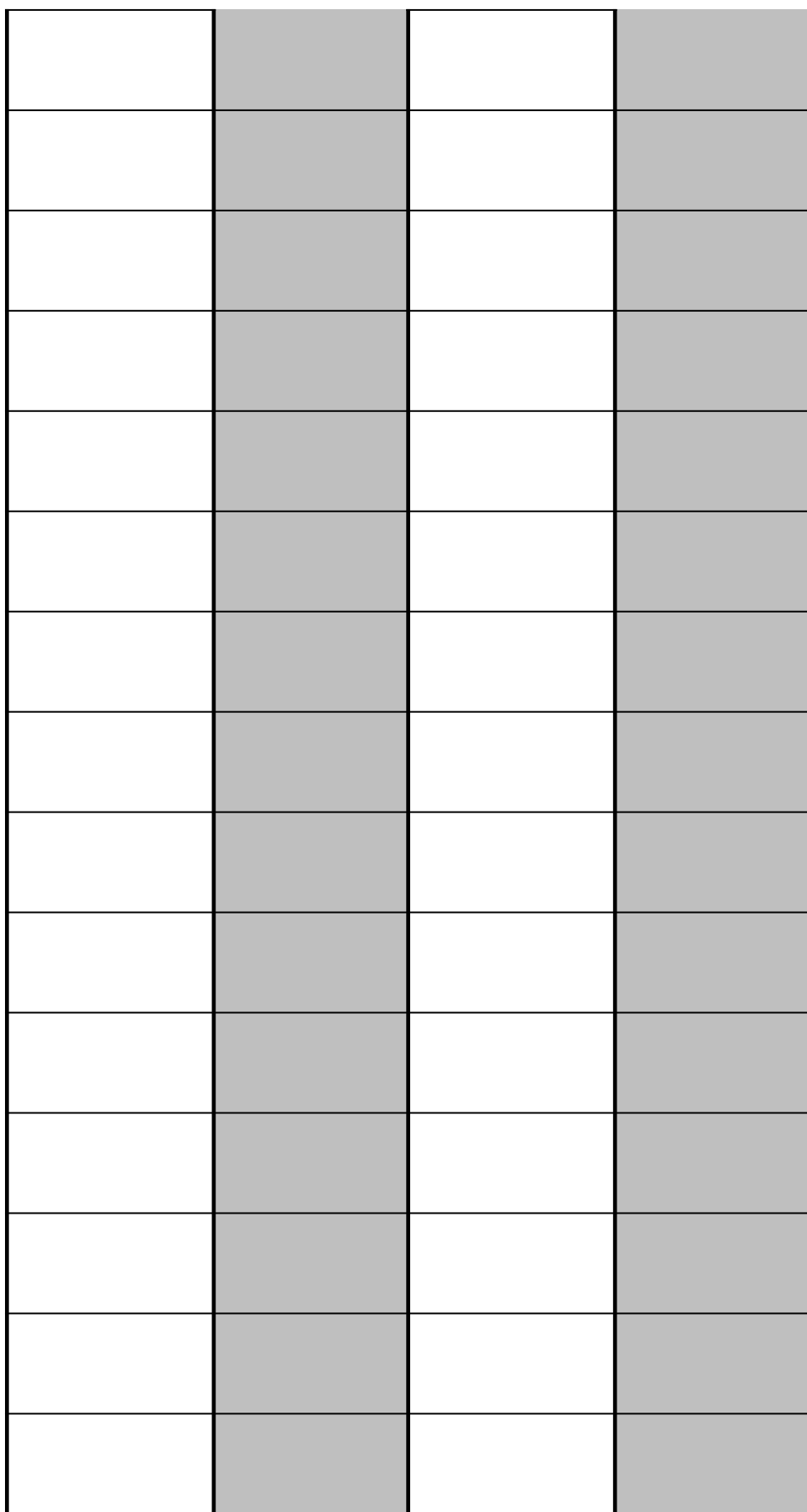


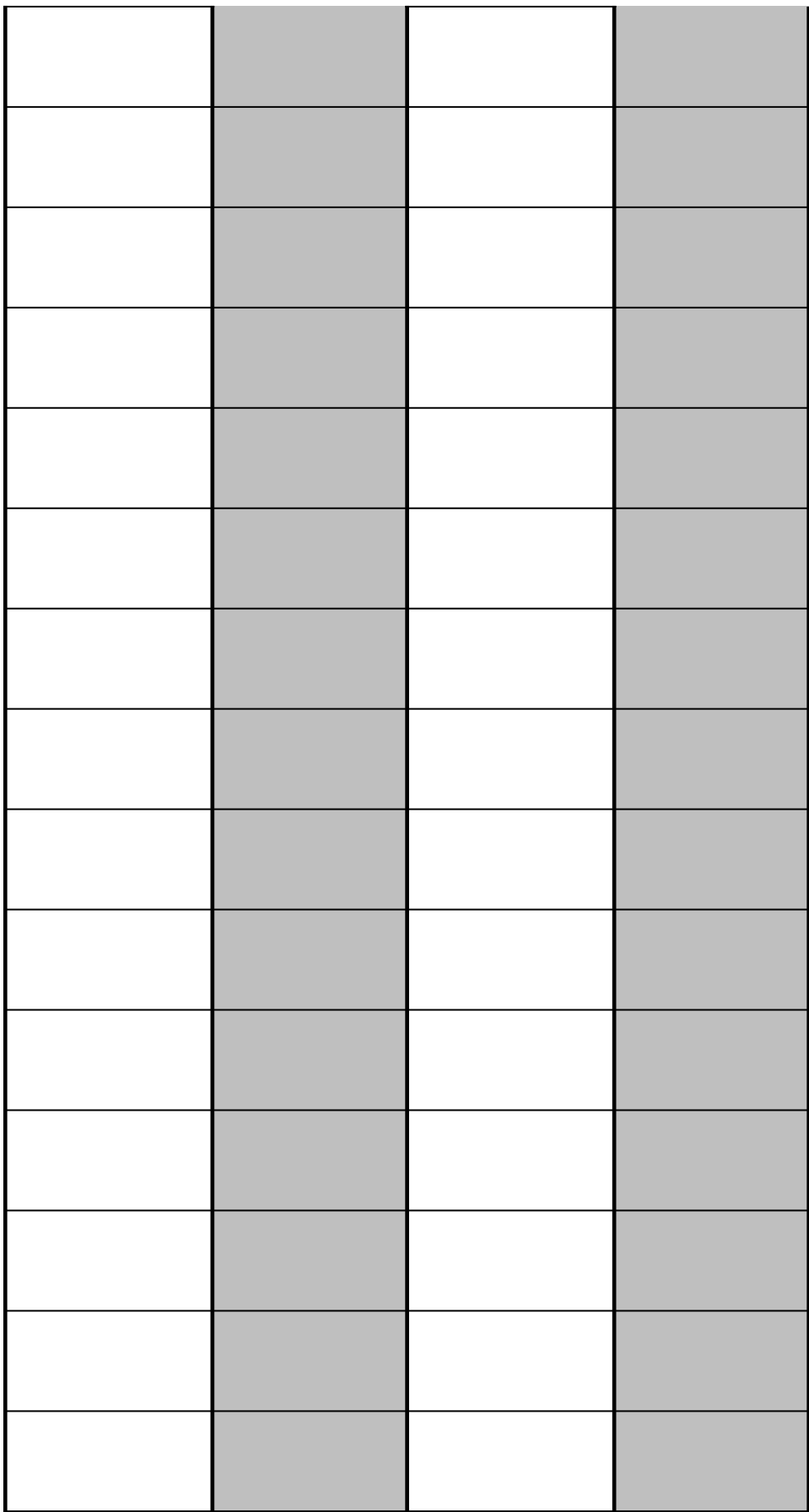
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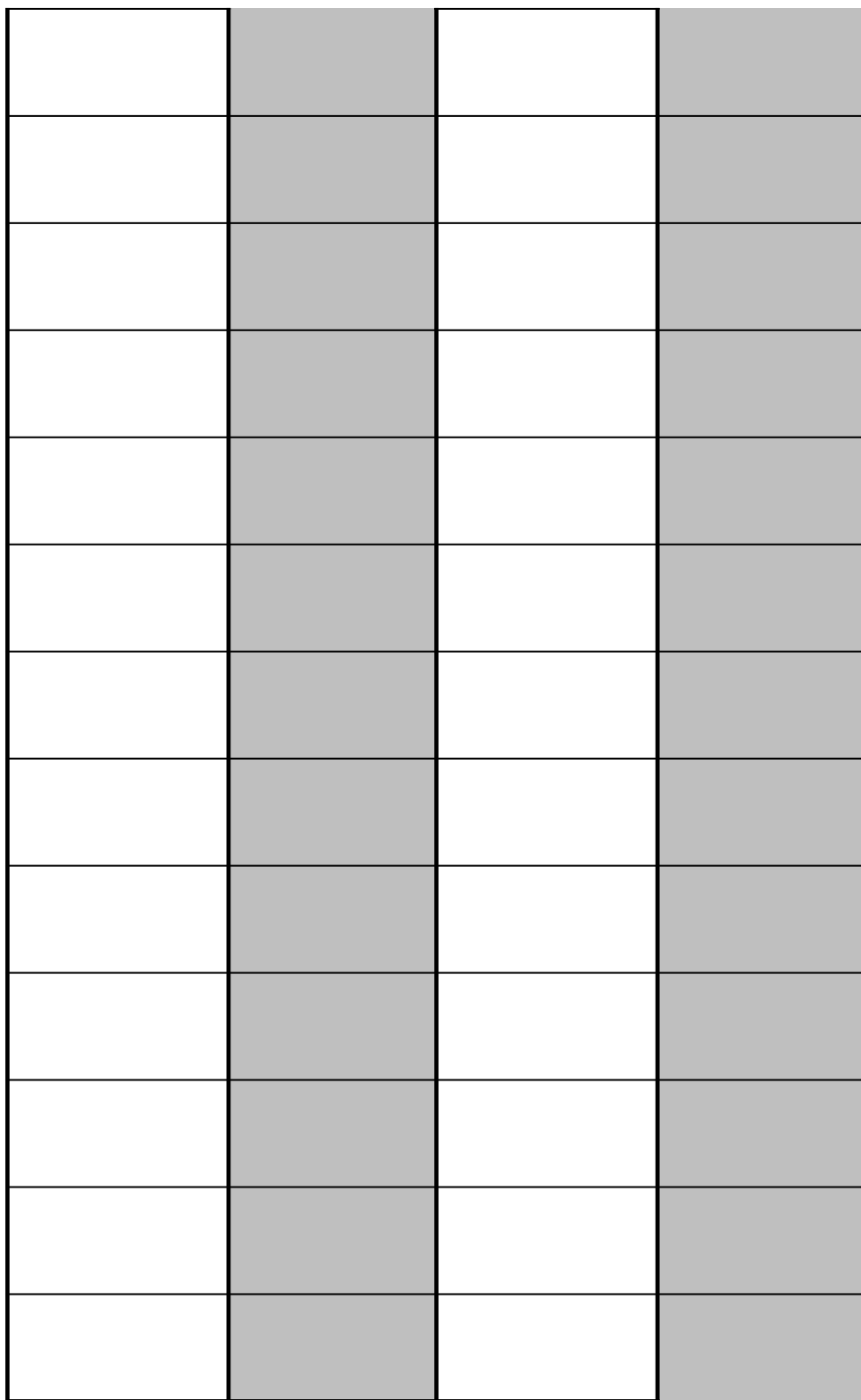
Calculate Using Default	
Calculated Total Methane Emission Reduction based on default values {{Total Number of Facilities at Which Leaks Repaired}x[12200 Average Annual Leak Rate per Facility at 70% Efficiency]}	Total Methane Emission Reduction Based on Actual Field Measurement or Other Assumptions (Mcf/yr)
0	
0	
0	
0	
0	
0	
0	
0	
0	
0	
0	
0	

Other Calculation
Explain Reduction Calculation Used

Provide additional comments or detail about how your company implemented this BMP







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End Year	Total Methane Emission Reduction (Mcf/yr)	Basis for Emission Reduction Estimate

This sheet summarizes values used in calculations in this workbook. If you have questions on any

Equipment Leaks

Default Values

Average Annual Leak Rate per Facility ¹	12,200	mcf/yr
Efficiency ²	0.7	percent (expressed as decimal)

Replace Reciprocating Engines with Turbines

Default Values

Average hourly reduction potential ³	0.234	scf/hp/hr
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Reciprocating compressor exhaust methane emission factor is 0.24 scf/HP-hour. Turbine compressor drivers emission factor is 0.0057 scf/HP-hour. The difference is 0.234 scf/HP-hour.

Pneumatic Controllers

Emission Factors

Source: 40 CFR 98, Table W-3B

Low Continuous Bleed Pneumatic Device Vent	1.37	scf whole gas / hr / device
High Continuous Bleed Pneumatic Device Vent	18.2	scf whole gas / hr / device

Default Values

Operating hours	8760	Assumes 24/7 operation all year
Methane content of natural gas	95%	Source: 40 CFR 98.233(u)(2)(iii)

¹ Derived from EPA Report to Congress, 1993.

² Derived from "Cost Effective Leak Mitigation at Natural Gas Transmission Compressor Stations," sponsored by the American Gas Association.

³ Derived from "Methane Emissions from the Natural Gas Industry," Volume 6, Vented and Combustion Sources.

of the values used, please contact EPA at GasSTAR@epa.gov

d by the Pipeline Research Committee International (PRCI), EPA and GRI, 1999.
irce Summary, co-sponsored by the Gas Research Institute and EPA, June 1996.