



Natural Gas STAR Methane Challenge Program Implementation Plan

Partner Name

Current as of (date)

Partner Implementation Manager

Name:

Title:

Address:

City/State/Zip:

Telephone/Fax:

E-mail:

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Natural Gas STAR Methane Challenge Program Implementation Plan

Partner Methane Challenge Commitments¹

BMP Commitment Option

Source		Start Date	Achievement Year
Onshore Production			
<input type="checkbox"/>	Pneumatic Controllers		
<input type="checkbox"/>	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks		
Gathering and Boosting			
<input type="checkbox"/>	Pneumatic Controllers		
<input type="checkbox"/>	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks		
<input type="checkbox"/>	Reciprocating Compressors - Rod Packing Vent		
<input type="checkbox"/>	Centrifugal Compressors - Venting		
Natural Gas (NG) Processing			
<input type="checkbox"/>	Reciprocating Compressors - Rod Packing Vent		
<input type="checkbox"/>	Centrifugal Compressors - Venting		
NG Transmission & Underground Storage			
<input type="checkbox"/>	Reciprocating Compressors - Rod Packing Vent		
<input type="checkbox"/>	Centrifugal Compressors - Venting		
<input type="checkbox"/>	Transmission Pipeline Blowdowns between Compressor Stations		
<input type="checkbox"/>	Pneumatic Controllers		
NG Distribution			
<input type="checkbox"/>	Mains – Cast Iron and Unprotected Steel (<i>Commitment Rate:</i>)		
<input type="checkbox"/>	Services – Cast Iron and Unprotected Steel		
<input type="checkbox"/>	Distribution Pipeline Blowdowns (<i>Commitment Rate:</i>)		
<input type="checkbox"/>	Excavation Damages		

Partner Methane Challenge Commitments

ONE Future Emissions Intensity Commitment Option

Segment:		Intensity Target:		Target Year:	
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¹ Partners may delete unused rows within the table, and may duplicate rows and add relevant details as needed (e.g., a corporate parent partner that has different commitments for each LDC can duplicate relevant rows to list the commitments for each LDC).

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Milestones/Timeframes for Meeting Commitments

Provide information on steps for achieving commitments such as anticipated rate of progress, key milestones, or other context (e.g., referencing work to be done during the next planned shutdown of a facility).

Consumers Energy Company Cast Iron/Unprotected Steel Miles (from Annual DOT Report)

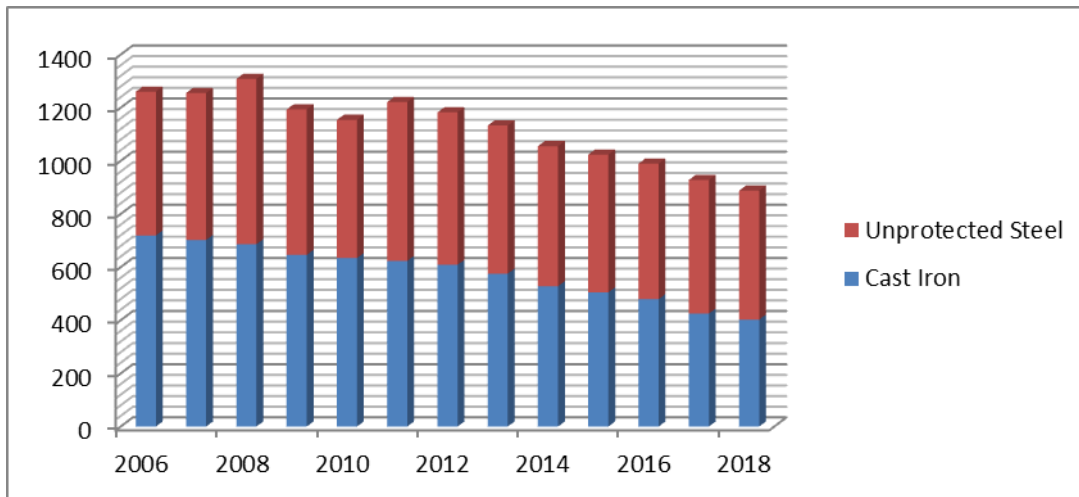


Figure 1. Inventory of Cast Iron and Unprotected Steel Miles

As mentioned above, the EIRP is central to our Methane Challenge Commitment. The EIRP scope includes more projects than just cast iron and unprotected steel main replacement activity. The EIRP scope includes the following:

- Replacement of all cast iron mains;
- Replacement of all bare, oxyacetylene welded, threaded and coupled, copper, Xtrube, and unprotected steel main;
- Replacement of 100 miles of transmission pipeline located in High Consequence Areas (HCAs); and
- Replacement of approximately 70 miles of low frequency electric-resistance-weld (ERW) piping located in gas storage fields.

Additional Information/Context:

Consumers Energy has been actively replacing vintage natural gas pipelines with modern materials for years. Simply put, modern materials have a much lower leak rates than older materials like cast iron and unprotected steel. In the last 12 years, our pipeline-based emissions have decreased almost 15 percent, despite simultaneously increasing our total pipeline length by 7 percent. Our customers benefit from a safety, reliability and environmental perspective from modernizing our distribution network.

Consumers Energy has been an active, consistent participant in the EPA Natural Gas STAR program since 1994. Actions taken under pipeline safety programs, as well as voluntary emissions avoidance activities have resulted in a reduction of carbon dioxide equivalent emissions by over 1.1 million metric tons. Our participation in the Natural Gas STAR program will continue. Included below is a graphical representation of our work in this area.

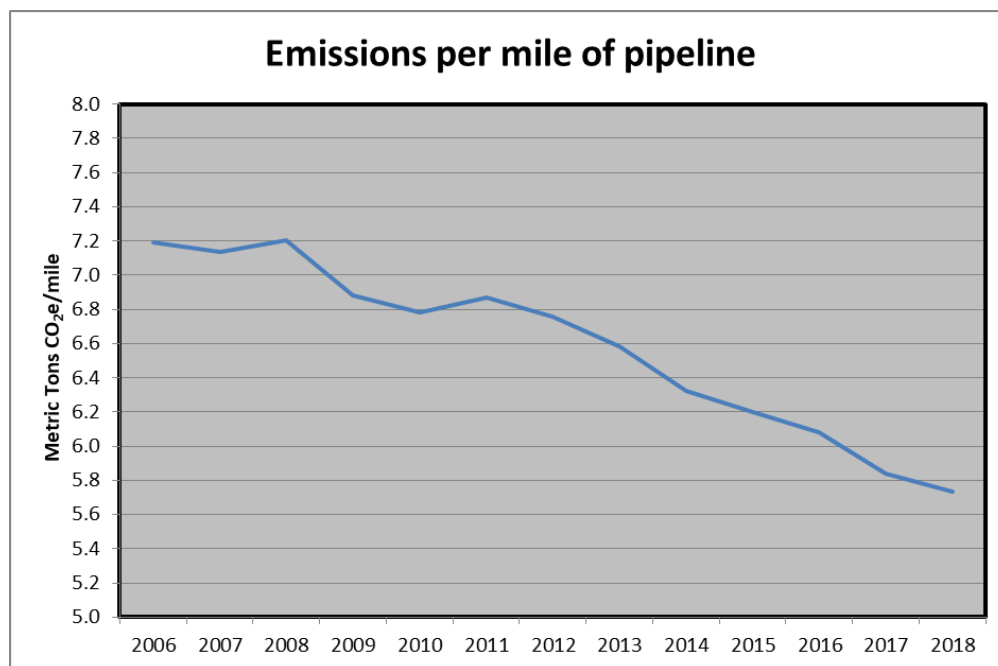


Figure 2. CO₂e Emissions From the Distribution Network

Note: the above calculations are based on emission factors applied over our total distribution network.