OMB Control No. 2060-0722
Approval expires 08/31/2021

Natural Gas STAR Methane Challenge Program
Implementation Plan

Partner Name

Duke Energy

Current as of (date)

Apr 12, 2019

Partner Implementation Manager

Name: _____

Title: _____

Address: _____

City/State/Zip: _____

Telephone/Fax: _____ E-mail: _____

Partner Methane Challenge Commitments[1]

BMP Commitment Option

	Source	Start Date	Achievement Year
	Onshore Production		
☐	Pneumatic Controllers		
☐	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks		
	Gathering and Boosting		
☐	Pneumatic Controllers		
☐	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks		
☐	Reciprocating Compressors - Rod Packing Vent		
☐	Centrifugal Compressors - Venting		
	Natural Gas (NG) Processing		
☐	Reciprocating Compressors - Rod Packing Vent		
☐	Centrifugal Compressors - Venting		
	NG Transmission & Underground Storage		
☐	Reciprocating Compressors - Rod Packing Vent		
☐	Centrifugal Compressors - Venting		
☐	Transmission Pipeline Blowdowns between Compressor Stations		
☐	Pneumatic Controllers		
	NG Distribution		
☐	Mains – Cast Iron and Unprotected Steel *(Commitment Rate:)*		
■	Services – Cast Iron and Unprotected Steel	Sep 1, 2016	2020
☐	Distribution Pipeline Blowdowns *(Commitment Rate:)*		
■	Excavation Damages	Sep 1, 2016	2021

Partner Methane Challenge Commitments

ONE Future Emissions Intensity Commitment Option

Segment:		Intensity Target:		Target Year:	

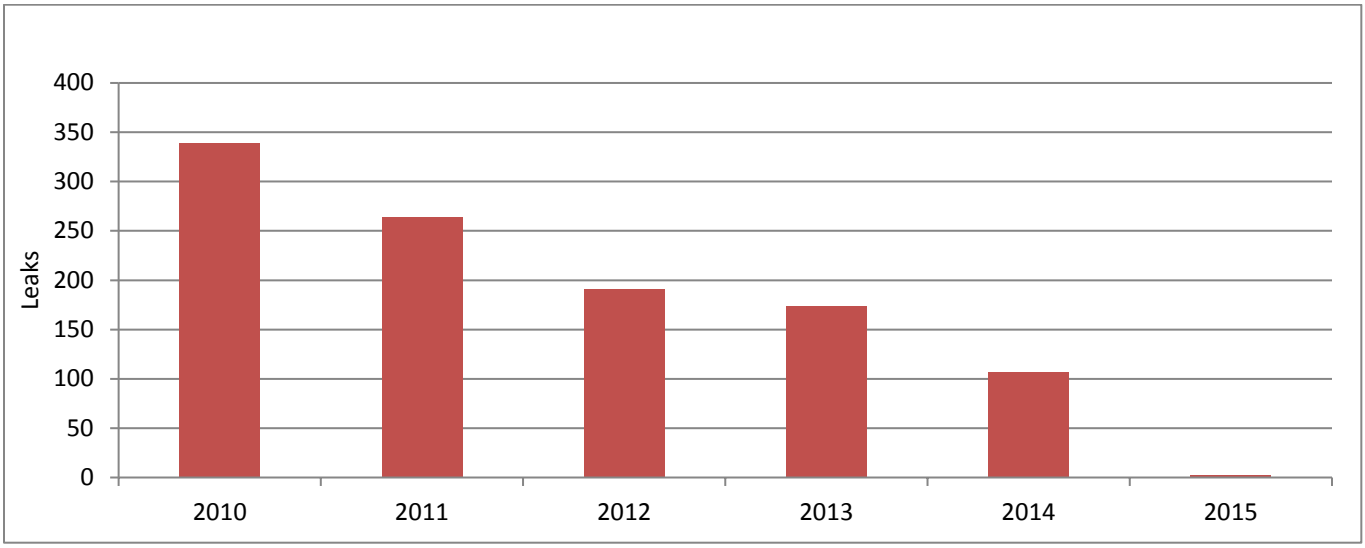
[1] Partners may delete unused rows within the table, and may duplicate rows and add relevant details as needed (e.g., a corporate parent partner that has different commitments for each LDC can duplicate relevant rows to list the commitments for each LDC).

Milestones/Timeframes for Meeting Commitments:

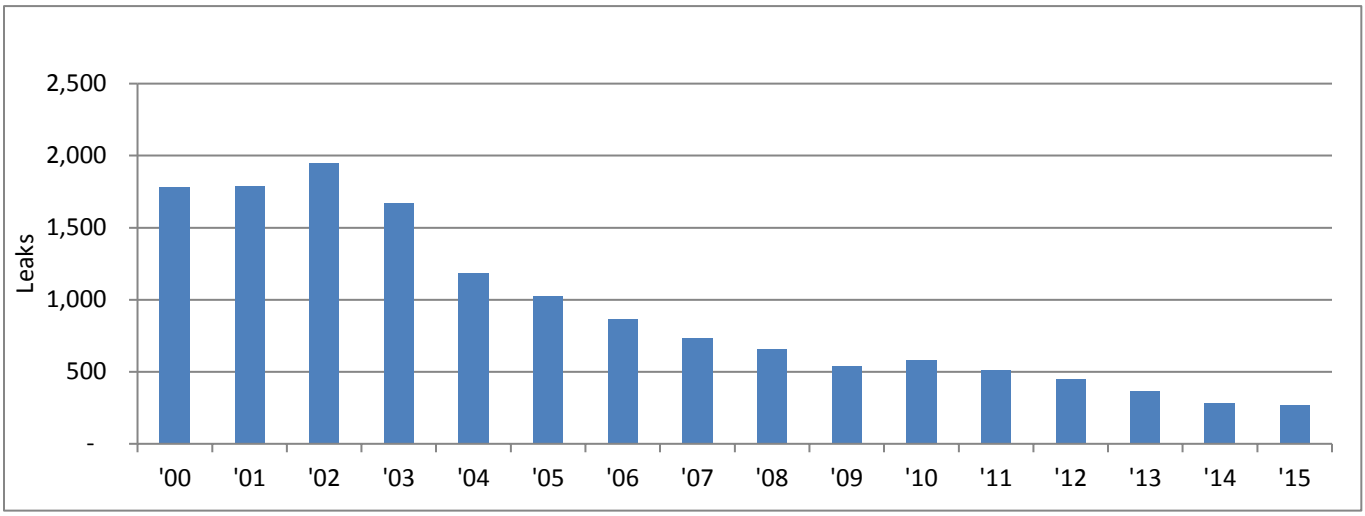
Mains – Cast Iron and Unprotected Steel

Duke Energy has met this commitment through the Accelerated Main Replacement Program (AMRP). The goal of this program was to replace all cast iron and unprotected steel mains. The program was successfully completed in Kentucky in 2010 and in Ohio in 2015.

Miles Of Priority Mains: Elimination of cast iron and unprotected steel mains over the previous 5 years.



Leak Per Year: The AMRP reduced methane leaks from mains dramatically.



With the AMRP concluded, Duke Energy has met the following milestones:

- Achieved and exceeded the specified annual replacement rate
- Sustained the replacement rate throughout the AMRP
- Eliminated all known cast iron and unprotected steel mains

Services –Unprotected Metallic Services

Similar to the AMRP Duke Energy is also committed to mitigating older service lines through the Accelerated Service Line Replacement Program (ASRP). This program will mitigate remaining known unprotected metallic service. . Approximately 68,000 services will be mitigated during the ASRP with the following split by jurisdiction: Kentucky - 10,000 Ohio – 58,000. The program will be complete in Kentucky by 2020 and in Ohio by 2030.

Excavation Damages

Duke Energy's Distribution Integrity Management Program (DIMP) has identified excavation damage as the greatest threat to the integrity of our natural gas distribution system. Duke Energy is committed to tracking and reducing these damages as doing so is not only beneficial to the environment but increases public safety and reduces the cost of providing natural gas service. The goal of our Methane Challenge program will be to consolidate the data we already collect, assure the accuracy of the data, and expand our data collection to cover all the metrics required for this portion of the EPA's Methane Challenge.

Additionally Duke Energy has or will implement by 2021 the following strategies to reduce the number of leaks due to excavations:

- Establish a partnership with Ohio and Kentucky's utility protection services (OUPS & KUPS) to create and deliver educational programs for third-party excavators.
- Collaborate with third-party locators to improve practices.
- Improve the response rate and quality of third-party damage investigation.
- Ensure that all new gas lines are traceable and work to make existing lines toneable where possible.
- Improve maps and records to facilitate better asset location/identification.

Damages Per 1000 Locates: Already implemented practices have reduced damages.