Natural Gas STAR Program Update
November 4-6, 2019 – Pittsburgh, PA
Sheraton Pittsburgh Hotel at Station Square
2018 Partner Accomplishments - Preliminary

• In 2019, 53 Partners submitted an annual report information on voluntary efforts conducted in 2018 to reduce methane emissions

• Voluntary activities covered about 50 technologies and practices

• New Partner Company: Range Resources

• Total voluntary methane emissions reductions over 130 Bcf (Cumulative reductions of 1.63 Tcf since 1990)
Methane Reductions by Year 1990 - 2018

Annual Reductions (Bcf CH₄)

- New
- Ongoing
2018 Reductions by Segment: 130 Bcf

- Production: 88.9%
- Gathering and Processing: 0.3%
- Transmission: 9.0%
- Distribution: 1.9%

Percentages may not sum to 100% due to rounding.
Annual Methane Reductions in 2018

**Production**
- Use Foaming Agents To Reduce Blowdown Frequency, 75%
- Artificial Lift: Install Plunger Lifts, 5%
- Install Vapor Recovery Units On Storage Tanks, 6%
- Other, 7%

**Gathering and Processing**
- Install Electric Compressors, 51%
- Install Flash Tank Separators On Glycol Dehydrators, 25%
- Other, 5%
- Install/Convert Gas-Driven Pumps To Electric, Mechanical, Or Solar Pumps, 17%
- Replace Gas Pneumatics With Instrument Air Systems, 2%

Percentages may not sum to 100% due to rounding
Annual Methane Reductions in 2018

Transmission

- Use Of Turbines At Compressor Stations, 24%
- Inject Blowdown Gas Into Low Pressure Mains Or Fuel Gas System, 24%
- Use Composite Wrap Repair, 17%
- Replace Wet Compressor Seals With Dry Seals, 9%
- Use Pipeline Pump-Down Techniques To Lower Gas Line Pressure, 12%
- Other, 13%

Distribution

- DI&M At Gate Stations And Surface Facilities, 89%
- Identify And Replace High-Bleed Pneumatic Devices, 2%
- Use Pipeline Pump-Down Techniques To Lower Gas Line Pressure, 2%
- Identify And Rehabilitate Leaky Distribution Pipe, 4%
- Other, 2%

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Program Renewal and Modification

- In 2018, Natural Gas STAR completed the renewal of its ICR authorization (as part of the PRA) with the following modifications:

- Partnership Agreement replaced the MOU: Broadened program commitments to acknowledge the various ways in which companies participate, including annual reporting and supporting technology transfer activities such as presenting at a Program events or developing technical documents.

- Excel-Based Report Forms replaced the on-line tool for annual reporting.

- Implementation Plans are encouraged but optional.
Technical Documents Update

Conducting a comprehensive update of all technical documents including

• Develop options for moving away from PDF’s e.g., to online searchable tools

• Remove outdated materials and identify strongest needs for technical document updates

• Collaborate with interested partners to update/develop new technical documents
Always Seeking Your Feedback!

We welcome Natural Gas STAR Partners comments and feedback on changes made this year:

• Reporting Process and Excel Spreadsheets
• Ideas for Future Webinars and Workshops
• Equipment and Service Provider Directory

GasSTAR@epa.gov
New Feature: Oil & Gas Equipment and Service Provider Directory


Searchable and sortable directory of service and technology providers that can facilitate methane emission reductions.

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