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Poster Title: "Gassing Up" Savings: Emerging Natural Gas Technologies

Abstract: "As the market for energy-using technologies nationwide continues to evolve, energy efficiency program administrators and product manufacturers continue to search for new technologies to produce energy savings into the future. The majority of nationwide energy efficiency spending is focused on electric energy, and unsurprisingly, the majority of commonly-discussed emerging technologies are electric measures. However, a number of new or repurposed technologies present significant potential for natural gas savings moving forward. With traditional gas energy efficiency measures (e.g. high efficiency furnaces and boilers) beginning to saturate the market, program administrators will need to turn to these new technologies to maintain their energy efficiency portfolios. This poster will present a number of these emerging natural gas technologies, their unique characteristics, and key nuances to be considered in future evaluations.

We will cover:

- Venturi steam traps
- Gas-fired heat pump hot water heaters
- Rooftop gas HVAC
- Combination gas space and water heating systems

For each technology, we will provide an assessment of the market potential for these technologies based on publicly available research studies to provide the audience with an understanding of how significant the impacts from these technologies could be. We will then describe their current status in the market to clarify the time horizon for the potential impacts from these measures. Finally, we will identify key areas where these technologies will require evaluation focus moving forward. For example, the majority of the measures identified above require significantly more complex installations than baseline options to yield their full savings potential, and so careful evaluation of installation practices and quality will be crucial to ensure that these technologies are seamlessly integrated into energy efficiency portfolios moving forward.