# STUDY SHOWS EMISSIONS ADVANTAGE WITH PROPANE RESIDENTIAL APPLIANCES

## EMISSIONS STATISTICS FOR GREENHOUSE GASES, POLLUTANTS, SHOW PROPANE ADVANTAGES

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Residential homes can emit far fewer greenhouse gas (GHG), nitrogen oxide (NOx) and sulfur oxide (SOx) emissions by incorporating propane-powered appliances in homebuilding and remodeling, according to a study commissioned by the Propane Education & Research Council (PERC).

"More and more homeowners are prioritizing efficiency and sustainability in their home buying and remodeling decisions," said Jesse Marcus, PERC director of residential and commercial business development. "The data from this study reinforces propane's use as a relevant and progressive energy solution for builders and remodelers who want to provide their customers with the most efficient products."

The Gas Technology Institute (GTI) performed the propane study and sought to compare emissions of propane residential applications. The study leveraged tools and reports under GTI's Carbon Management Information Center consortium, including its Source Energy and Emissions Analysis Tool (SEEAT). SEEAT uses government and published data sources to estimate emissions associated with the full-fuel cycle. The study analyzed greenhouse gases, NOx and SOx produced by four categories of appliances: space heating, water heating, clothes dryers and ranges. It found the following emissions reductions with propane appliances.

Space Heating.

- GHG: 50 percent less than electric furnaces.
- NOx: 35 percent less than electric furnaces.
- SOx: 82 percent less than electric furnaces.

Water Heating.

- GHG: 46 percent less than electric storage tank water heaters.
- NOx: 25 percent less than electric water heaters.

Ranges.

- GHG: 83 percent less than electric ranges.
- SOx: 83 percent less than electric ranges.

Clothes Dryers.

- GHG: 42 percent less than electric clothes dryers.
- NOx: 23 percent less than electric clothes dryers.
- SOx: 83 percent less than electric clothes dryers.

Learn more about incorporating propane appliances into home building and remodeling projects at **buildwithpropane.com/Propane-Systems**.

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