NORMALIZED NATURAL GAS USE PER RESIDENTIAL GAS CUSTOMER

Findings

- Normalized natural gas use per residential gas customer fell 47 percent between 1970 and 2019, or 1.13% per year for 50 years.
- Since the significant winter heating season in 2014, use per customer has declined at a faster rate than the decade average (0.48 percent versus 0.36 percent). In prior decades, most years showed a decline:
  - Annual rate of decline, 1970-1979 = 1.06 percent.
  - Annual rate of decline, 1980-1989 = 1.26 percent.
  - Annual rate of decline, 1990-1999 = 0.89 percent.
  - Annual rate of decline, 2000-2009 = 1.51 percent.
  - Annual rate of decline, 2010-2019 = 0.36 percent.
  - Annual rate of decline, 2014-2019 = 0.48 percent.
- Baseload appliances such as cooking stoves, water heaters, and dryers have seen significant reductions in average consumption of natural gas per customer. Baseload use of natural gas per customer has declined at an average annual rate of 1.88 percent since 1970.
- Based on the 2019 U.S. Census Bureau American Housing Survey, the average gas household uses two to three natural gas appliances.

### Normalized Use per Residential Gas Customer

![Graph showing normalized use per residential gas customer from 1970 to 2019.](image)

**Methodology**

- Baseload volumes assumed as average consumption during July and August, with the excess consumption in other months assumed to be weather-sensitive.
- Weather-sensitive heating load is normalized by multiplying load by the ratio of 30-year normal heating degree days over actual annual calendar heating degree days.

**Source:** Based on data from Energy Information Administration and NOAA Utility Weighted Heating Degree Data.

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Supplemental Materials From AGA’s Normalized Use per Customer Model

Normalized Use per Residential Gas Customer

Mcf/Year


- Normalized Use per Customer
- Weather Adjusted Heating Load
- Baseload per Customer