

Midwest Energy Efficiency Alliance

Energy Solutions
Conference

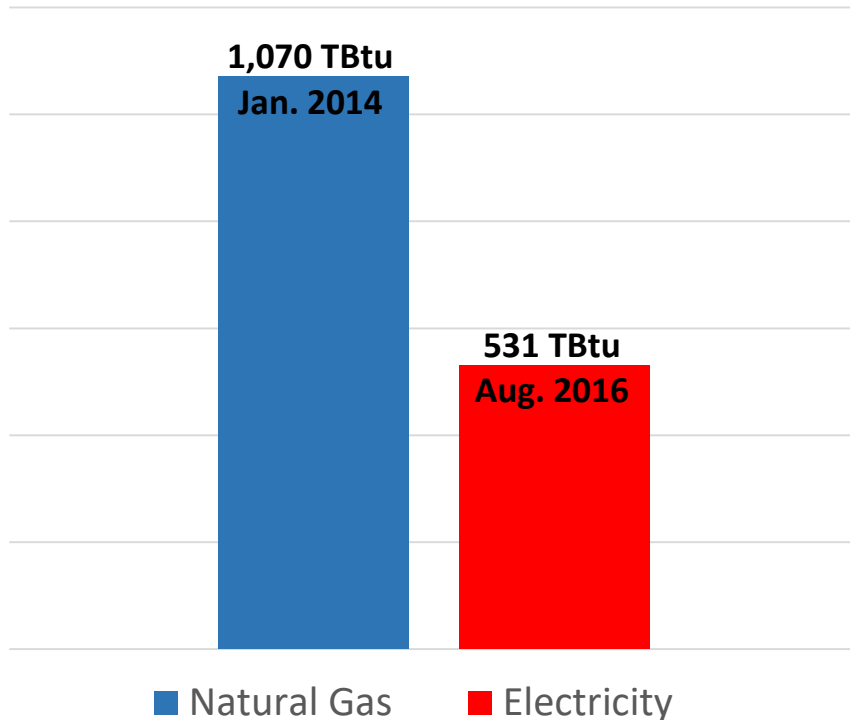
February 7, 2019



Foundational Energy Facts

Natural Gas and Electricity Peak Residential Monthly Demand

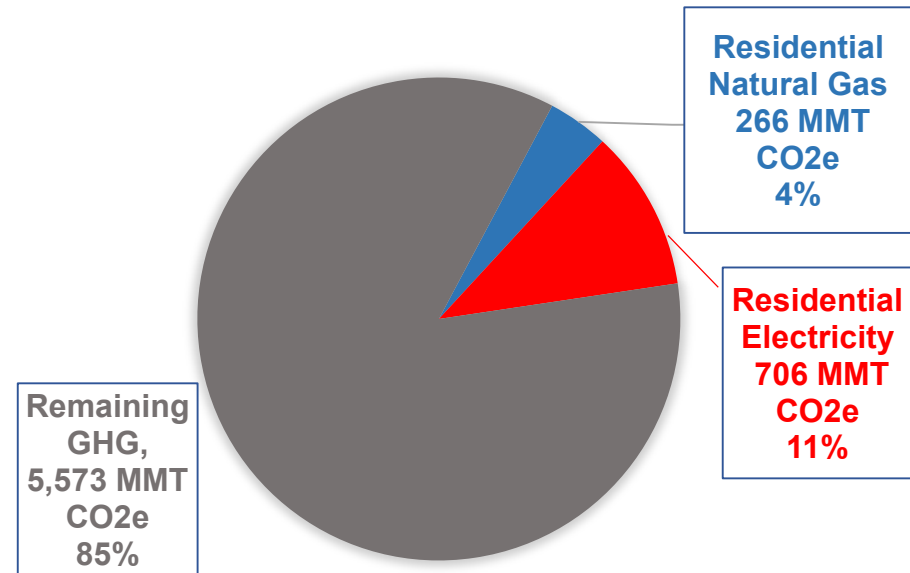
U.S. Peak Monthly Demand 2014-2016 (TBtu)



Source: Energy Information Administration

Residential natural gas use accounts for only 4% of U.S. greenhouse gas emissions.

Share of US Greenhouse Gas Emissions
(MMT = Million Metric Tons)



EPA Inventory of Greenhouse Gas Emissions & Sinks 2018 draft, data for 2016

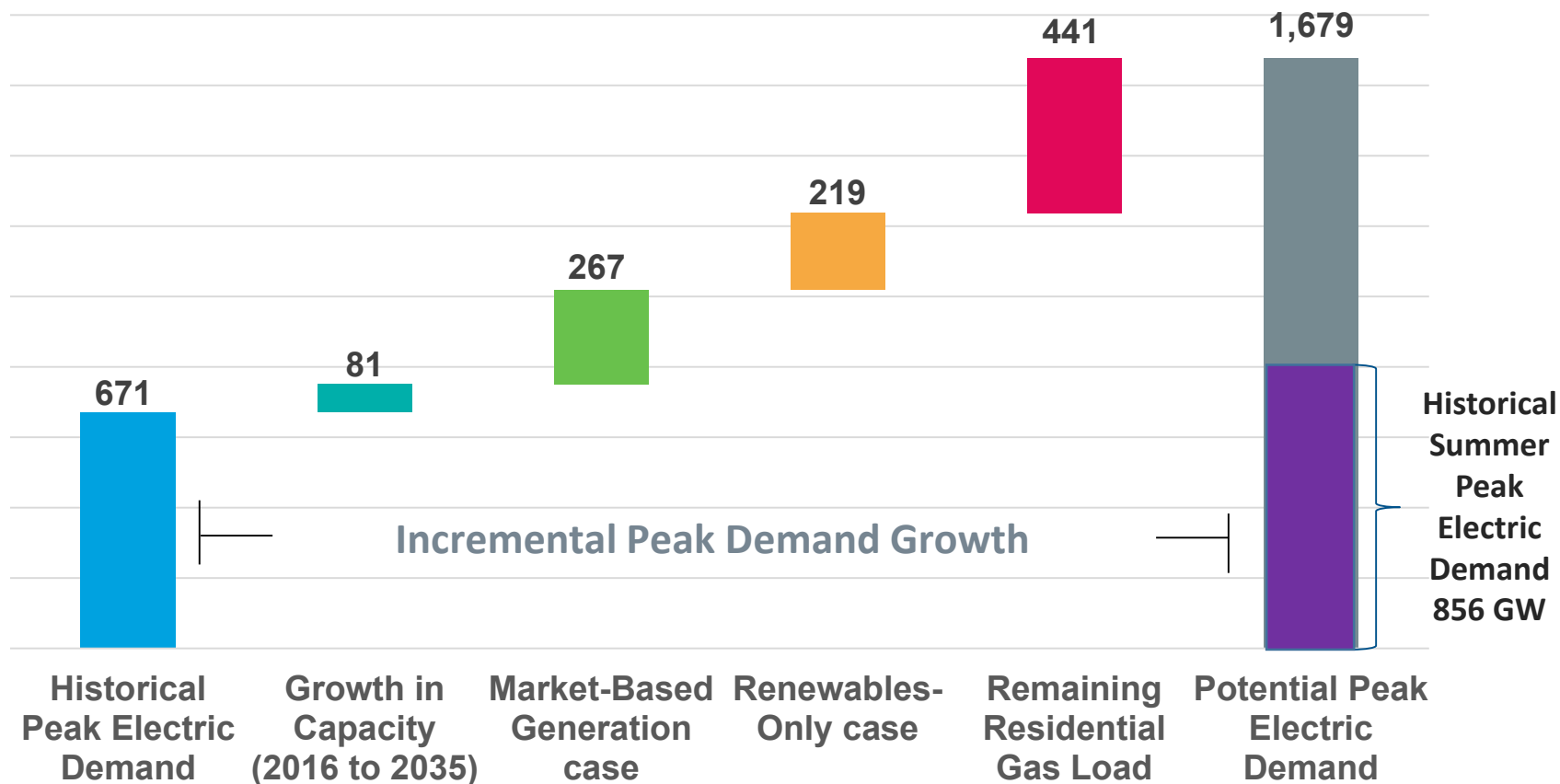
Residential gas methane share based on gas consumption

Residential electricity methane share based on gas for electricity consumption & residential electricity

Shares of upstream natural gas system methane emissions allocated based on consumption by end-use

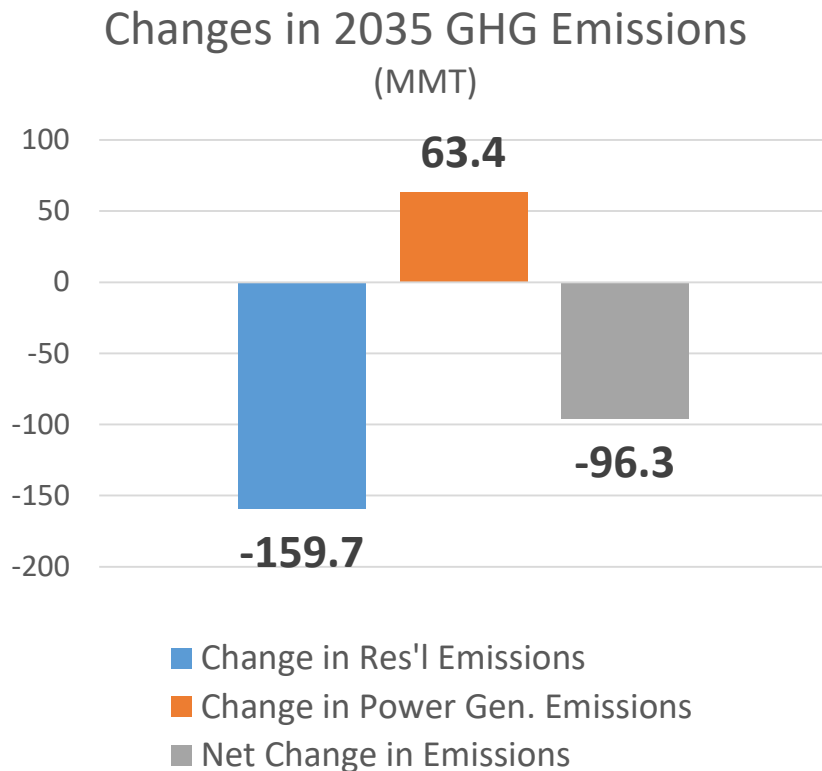
Electrifying the entire residential sector would nearly double the U.S. electric grid's peak hourly demand.

Impact of Residential Electrification on Peak Winter Hourly Demand (GW)



GHG reduction potential is small and cost to consumers is high.

GHG Emissions Reduction Potential from Residential Electrification



Annual Per Household Cost of Electrification Policy

