Spray foam is an innovative, multifunctional material for home insulation and air sealing that can increase energy efficiency and comfort while helping combat climate change and greenhouse gas (GHG) emissions.

**Why Spray Foam?**

With one product, spray foam creates a well-insulated and airtight building envelope where it is applied — preventing unwanted airflow by sealing cracks, gaps, and leaks. This reduces the amount of energy needed to heat and cool your home, thus increasing energy efficiency and reducing GHG emissions.

**Spray Foam vs. Other Insulation and Air Sealing Products**

- **Minneapolis**: A single-family home with ductwork in an unvented attic, insulated and air sealed with spray foam has an additional energy savings of 5,638 kWh per year compared to the same home with ductwork in a vented attic, insulated and air sealed with other products. This converts to a GHG reduction of 1,556 kg of CO₂ per year or a 33% reduction in the annual emissions of a car.

- **Houston**: A single-family home with ductwork in an unvented attic, insulated and air sealed with spray foam has an additional energy savings of 2,556 kWh per year compared to the same home with ductwork in a vented attic, insulated and air sealed with other products. This converts to a GHG reduction of 950 kg of CO₂ per year or a 20% reduction in the annual emissions of a car.

**Going Above and Beyond for Climate**

Approximately 115 million homes were occupied in the United States at the end of 2020. If each home was insulated with spray foam, the potential aggregate energy savings could be as high as 648.37 billion kWh per year, which is a reduction of 178.94 billion kg of CO₂ emissions per year.