

RFA - DAQ Energy Efficient Insulation

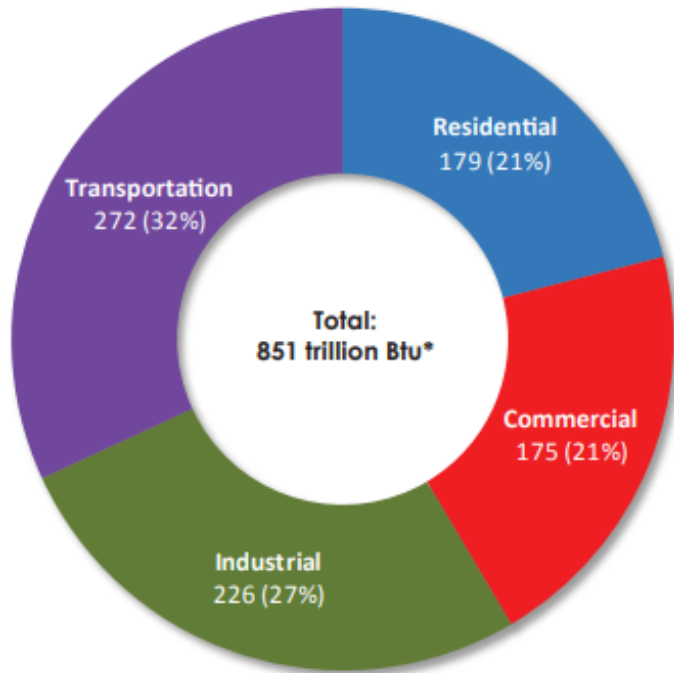
Funding Residential Energy
Efficiency



Home Energy Efficiency Reduces Emissions

Utah's residential buildings account 21% of the state's consumption

Trillion Btu (Percent of total)



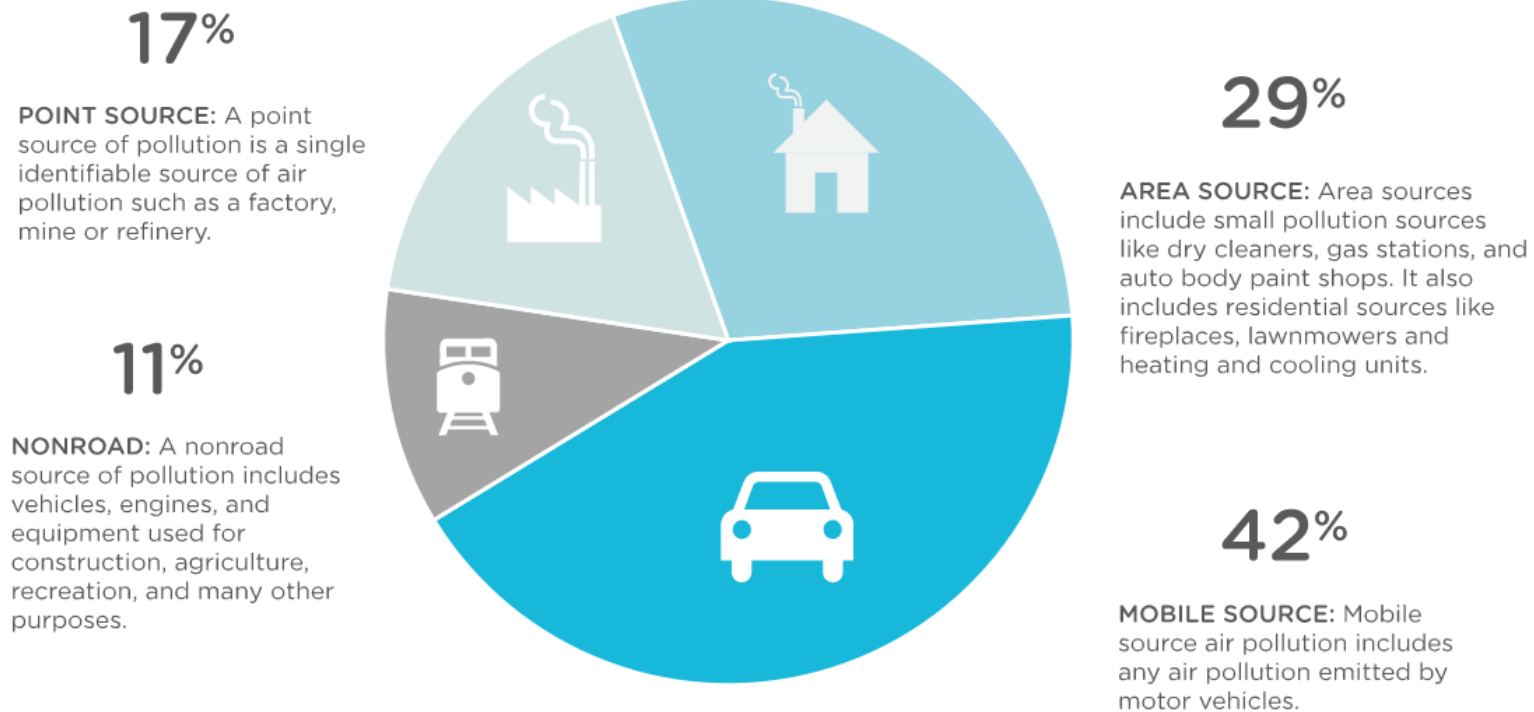
- 56% of the energy used by homes is associated with heating and cooling
- Utah buildings waste 20-30% of the energy they consume due to air leakage
 - *Equivalent to adding 750,000 cars to Utah roads*
- Investing in high quality insulation reduces air leakage, reduces emissions, and reduces monthly energy costs over the home's lifetime

Funding the Program will Improve Air Quality



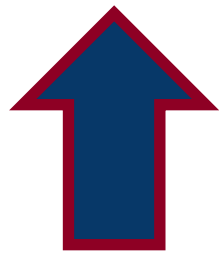
WHERE DOES UTAH'S AIR POLLUTION COME FROM?

In 2019, Air pollution along the Wasatch Front is measured coming from the following sources:

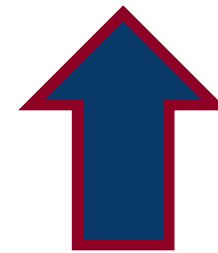


Funding the Program Saves Homeowners Money

- Insulating and air sealing buildings maximizes energy efficiency
- According to DOE, insulating and air sealing to the latest code can reduce energy usage by 50%
- DOE estimates that home air leakage can account for 30% or more of a home's heating and cooling costs
 - Solving the air leakage problem reduces energy bills



Electric Heat Cost – 1.4%
Propane Heat Cost – 4.2%
Oil Heat Cost – 9%



Funding the Program will Benefits Grid Resiliency

- Building materials, such as spray foam insulation, are effective at insulating and air sealing any building to maximize and reduce energy usage and cost.
- If every home in the U.S. was insulated with spray foam, the potential aggregate energy savings could be as high as 648.37 billion kWh per year
 - Equivalent to remove almost 40 million cars from the road
- If Utah retrofits 1,000 homes, to the standards outlined by DAQ in the program rules, it could return 12,375,000 kWh to the electrical grid.
 - Equivalent of avoiding driving over 22,000,000 miles.

Benefits of Spray Foam Insulation

- When it comes to air sealing and insulating a home, ***spray foam insulation*** is the premium all-in-one solution, particularly as it relates to reducing emissions.
- ***Switching to spray foam could reduce total US Green House Gas emissions by 3.5% annually, or the equivalent of removing 38.9 million cars from the road.*** (Huntsman, Accessed 10/12/22)
- When compared with fiberglass batt, homeowners and builders that utilize ***spray foam insulation can expect to lower their GHG impact across the insulation lifetime by approximately 80%*** (McKinsey & Company, 7/22).
- Builders and homeowners are eager to utilize spray foam, however, it's higher price relative to other forms of insulation can make it **cost prohibitive**.

Huntsman supports funding the Energy
Efficient Insulation Improvement program
created by SB 188 (2022)