



# HEAT PUMPS FOR ENERGY EFFICIENT HOMES

When most people think about places where we can solve climate change, reducing pollution from power plants, refineries, and vehicles probably come to mind. But even our homes and places of work can be a part of the solution.

There are currently about 70 million homes in the country that use heating and cooling systems that emit carbon pollution.<sup>1</sup> As it turns out, space heating is the largest component of home energy consumption. According to the Center for Climate and Energy Solutions, 28 percent of residential carbon pollution comes from heating your home!<sup>2</sup>

Thankfully, affordable technology now exists to help homeowners do their part to cut climate pollution. Heating and cooling systems, also known as heat pumps, provide energy efficient solutions to home heating needs that save you money on your energy bills. These systems have an

outdoor unit like an air conditioner that connects to units inside your house to provide remote controlled year round heating and cooling. Heat pumps use the same technology as refrigerator coolers, moving heat from outdoors to indoors (and indoors to outdoors) using a vapor compression cycle—similar to an air conditioner.<sup>3</sup>

## WHY ARE HEAT PUMPS THE RIGHT CHOICE?

If just all 6.8M homes in the Northeast currently using oil or propane heating changed to more modern and efficient heat pump technology, it would remove over 10 million tons of carbon pollution—or the **equivalent of getting nearly two million passenger cars off the road.**



