

BEDFORD CASE STUDY



Home:

- Built in the late 1980s
- 3,008 square feet
- Weatherization measures: Insulation, updated windows/doors, basement air-sealing
- Heat load: 38,406 btu/hr (at 12°F)

Previous HVAC: Natural gas furnace and central A/C

Heat Pumps:

- Bosch Bova-60HDN1-M20G
- Replaced furnace when it stopped working
- Installed November 2019
- Cost: \$16,146 (doesn't include all costs of ductwork upgrades)



Customer experience:

- Re-used existing ductwork, which kept costs down, but the less-used third floor still has the same comfort issues as with natural gas heating.
- In the winter, the homeowners wanted a cooler overnight temperature, so they set a multiple stage warm up in the morning to avoid use of backup electric heat.
- In the summer, they enjoy the heat pump feature that recirculates air throughout the home, bringing cool basement air to the rest of the house.
- Homeowners estimate that winter costs are now higher. This matches their expectations. They purchase 100% renewable electricity and are happy to have decarbonized a major source of energy in their home.