The Jefferson School District had several propane furnaces, all more than 20 years old, situated on the top of the school’s flat roof. School leaders decided to replace them with something more efficient that would both heat and cool the building and wouldn’t need to be placed on the roof. With the help of United Electric Cooperative, the school took advantage of the cooperative’s Take Control & Save Pilot Program and upgraded the system to a more energy-efficient one.

Problems identified:
- Older, inefficient propane furnace
- Uneven heating throughout the building
- Partial air conditioning resulting in warm rooms in spring and fall

Member goals:
- Reduce energy use and bills
- Remove heating equipment from the building’s flat roof
- Add air conditioning in the entire building without increasing energy bills

Completed energy efficiency measures:
- Installed a Mitsubishi cold-climate heat pump system in the elementary wing and offices
- The positive results from this pilot encouraged the school to take additional steps to improve its energy efficiency, including replacing old, inefficient lighting with energy-efficient lighting.

Energy-saving results!
- Saved 11,710 gallons of propane in the first two years after installing the new system.
- Even after installing the system and using it to both cool and heat the building, the school’s average electricity costs stayed about the same!
- Total energy savings of $18,275 in the first two years from the reduction of propane used!

Company statistics:
- Business type: Public school district
- Primary building construction: Block
- Building square footage: 15,775
- Age of oldest primary building: 20 years

Jefferson school building

Gallons of propane used

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<th>Gallons of Propane Used</th>
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