Case Study

Minnesota

Jordan Middle School and Community Center

New buildings with big savings

The Community of Jordan, Minnesota couldn’t have known that a middle school addition and adjacent Community Center would bring them together when they passed referendums to fund them. But they did.

They worked with Xcel Energy’s Energy Design Assistance program to build as efficiently as possible and get rebates to offset the cost of the new energy-efficient equipment.

Executing a plan

The project involved gutting the existing middle school, the addition of a 18,000 square foot academic wing, and an additional 40,000 square foot Community Center, which is attached to the middle school.

“The old middle school had outdated mechanical equipment so we knew we had to update that,” says facilities manager, Tim Bisek.

Part of Xcel Energy’s program involves energy modeling to identify various efficiency measures available, potential costs, payback terms and rebates.

“I was really impressed by the process,” Bisek says. “The owner gets input and you see what your money is going to pay for, which makes it easier to make a decision. In our case, the payback and rebates made it a no brainer.”

Once the final decisions were made, Bisek and his team chose to install the following energy efficiency items:

- Premium efficiency chiller
- Condensing boiler
- VFDs on fans and pumps
- Demand control ventilation
- Heat recovery system
- LED lights on the building exterior and parking lot
- Daylighting controls
- Occupancy sensors

**Project highlights**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>Estimated annual energy savings</td>
<td>522,406 kWh</td>
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<tr>
<td>Estimated peak energy reduction</td>
<td>41%</td>
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<tr>
<td>Estimated annual energy cost savings</td>
<td>$89,213</td>
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The combined measures are saving them over $89,000 each year in energy costs and will reduce their peak energy use by 41 percent.

**Support for the center**
The students and staff love the brand new school and residents use the new community center seven days a week. The center includes three full sized gyms, a weight room, a multi-purpose meeting room, an elevated walking track and locker rooms. Bisek says everyone loves it.

“This facility has brought the community together, and has been a great enhancement,” Bisek says.

And he points out they’ll continue to use it, and reap energy savings, for years to come.

If you’re planning a new construction, addition or major renovation project, visit xcelenergy.com/BusinessNewConstruction or call the Business Solutions Center at 855.839.8862.