

NORTON USD 211, KANSAS

Project Value:

\$1,100,723

Annual Energy Savings:

\$48,681

Annual Maintenance Savings:

\$32,713

GOALS & CHALLENGES

Outdated lighting, 50-year-old steam boilers, a 60-year-old furnace, and a significant load imbalance were among the problems facing Norton USD 211. With so much equipment beyond its useful life and its anticipated failure looming as a significant expense, the district turned to Willdan to develop and implement cost-effective, long-term solutions to the issues they faced.

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IMPROVEMENT DETAILS

High School Improvements:

- Designed and installed two high-efficiency condensing boilers to convert from steam heat to hot water
- Reconfigured electrical distribution system to eliminate load imbalance

Elementary School Improvements:

- Rebalanced air systems and new control system
- Full lighting retrofit

Other Upgrades:

- Installed high-efficiency steam boiler to serve the Junior High facility
- Redesigned mechanical systems at East Campus to eliminate boilers
- Upgraded space lighting to high-efficiency T8 lamps and electronic ballasts
- Installed district-wide energy management control system

SOLUTIONS & OUTCOME

Willdan provided full system design to address each of these issues. Combined with the energy savings from the installation of a district-wide energy management system, Norton 211 was able to implement a project that secured the comfortable operation of its facilities for years to come without jeopardizing its future financial position.



Willdan and USD 211 will continue their relationship in future years as Willdan tracks the district's progress toward the guaranteed energy savings.