

PEAK PERFORMANCE IN SAVINGS

Custom New Construction Upgrades Bring a Mountain of Savings



Project Overview



Left: Evaporator fan. Top Right: Process water heat exchangers. Bottom Right: Compressed air dryer.

This energy efficiency project for a new Beef and Bison processing plant included four key interventions:

Process Water Heat Exchangers

Six heat exchangers were installed to remove heat from the refrigeration compressor discharge gas, which reduced the reliance on the gas cooler systems to remove the heat.

Variable Speed Fans

Two gas cooler fans were upgraded with variable speed controls with the installation of electronically commutated motors (ECMs).

Fan Cycling Controls

The evaporator fans were upgraded to cycle off once the desired temperature setpoint is reached rather than operating continuously.

Compressed Air Dryers

Two heatless desiccant air dryers were replaced with heated versions that require less purge air.

Annual Results



491,000 kWh
First Year Savings



\$19,000
Avoided Energy Cost



228 Tons CO₂
Scope 2 Emission Reduction

What ideas do you have to save energy?

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