

Prairie North Health Region, North Battleford, SK

The identified retrofit projects were divided into 4 stages, coinciding with the conversion of 4 separate air handling systems from constant volume to variable air volume. Stage 1 of the energy retrofit projects at Battleford Union Hospital is currently underway with an estimated cost of \$376,000 (total cost of all stages is \$1,068,000). Future phases will include converting the three remaining air handling units to Variable Air Volume. The savings were estimated to be \$173,100 through all 4 stages with capital incentive grants through NRCan's Energy Retrofit Assistance (ERA (3)) program estimated to be more than \$63,000.

Conducted an energy audit of Prairie North Health Region's three largest hospitals, Battleford Union Hospital, Lloydminster Hospital and Meadow Lake Hospital. The hospital located in Meadow Lake had been built within the past five years; thus, it was determined that the focus of the energy audit should be on the two older hospitals located in North Battleford and Lloydminster.

- Integrated Design's energy audit findings and retrofit savings projections were disputed by engineering consultants involved with Battleford Union Hospital; however, after one year during which the retrofit was only partially implemented, energy bill savings exceeded what Integrated Designs predicted by 25%
- Owner received a federal grant covering 50% of the audit cost, and another grant of more than \$40,000 to go towards the chosen retrofit projects at Battleford Union Hospital
- Prime example of how updating a facility's systems to match the evolved function of the facility can incur massive energy savings: entire wings, that were originally designed to house patients, are now offices and as such, only require conditioning and ventilation during the workday, rather than 24 hours every day. Changing the systems to this new, reduced schedule (by converting from constant volume to variable air volume and scheduling the variable air volume boxes) is a large contributor to the incurred savings.