

## Saskatoon Light and Power

### Saskatoon, Saskatchewan



#### PROJECT SUMMARY

Saskatoon Light and Power is a facility comprised of offices and service garages. The facility was only a few decades old, but suffered from high-energy consumption in the summer and poor indoor environment quality at the time of the audit.

#### SCOPE OF SERVICES

Integrated Designs provided an evaluation of the heating, ventilation and air-conditioning (HVAC) system, lighting, building management system and indoor air quality at Saskatoon Light & Power (SLP).

#### PROJECT HIGHLIGHTS

- Planting trees on the south side of the building solved the problem of the south wing being too warm, while the north wing was too cold in summer. The alternative solution to cooling the south wing was to purchase a higher capacity chiller; planting trees was a far cheaper, more sustainable, and highly successful option.
- Retrofitting T-12 fixtures with efficient T-5 high-output fixtures in the office not only saved on energy consumption, but also reduced eye strain and computer glare complaints.
- One year after planting trees, retrofitting lights, converting to a variable air volume system, and upgrading the building management system, electrical consumption was reduced by 20%, and demand consumption was reduced by 20%.