The Cooling Plant on Campus (CPOC) is unusually public for an industrial building, located beside one of the busiest teaching & research facilities, a large performing arts complex, 1,600 students living in residence and within sight of an LRT station. Though few will enter, thousands see this unique green building every day.

As an integral part of the university’s District Energy System, which provides efficient, centralized utility services, CPOC is key to the sustainability of most buildings on North Campus. Behind the stylized gold façade, CPOC is itself one of the university’s greenest buildings. Site planning, energy efficiency, water conservation and more contribute to this building’s LEED® Gold certification.

Conservation

- 25% ↓ LESS ENERGY USE
- 61% ↓ LESS WATER USE
- 89% ↓ CONSTRUCTION AND DEMOLITION WASTE

Green Features

- SHOWERS FOR CYCLISTS
- CFC-FREE
- LIGHTING SENSORS
- DES INTERPRETIVE CENTRE

Certifications & Awards

LEED® Canada
New Construction 1.0

Gold
45 Credits
May 19, 2015

Take a green building tour and see some of these features up close.
sustainability.ualberta.ca/tours

See following pages for details
ENERGY
• Ventilation system includes highly efficient variable speed drives.
• Exhaust air is used to preheat fresh air intake.
• Large windows in office areas allow daylight to partially offset electrical lighting.
• High efficiency lighting.
• Uses 35 per cent less energy compared to a model building meeting minimum code compliance.  
  Model based on the MNECB 1997 energy budget.
• Non-emergency lighting turns off following business hours.
• 1680 MWh of green power purchased for first two years.  
  Sources meet Ecologo program requirements.

CONSTRUCTION & DEMOLITION MATERIALS
• 73 per cent of wood used in construction was certified by the Forest Stewardship Council (FSC).
• 33 per cent of materials used in construction were regionally sourced.
• 41 per cent of materials used in construction were recycled-content materials.
• No added urea-formaldehyde wood products were used.
• 89 per cent of construction and demolition waste was recycled or reused.

WATER
• Designed to use 61 per cent less water compared to a model building meeting minimum code compliance.
• Water is conserved with waterless urinals and low-flow fixtures (including toilets, shower, wash station and kitchen sink).
COOLING PLANT ON CAMPUS

Architects: ONPA Architects
Engineering: Capital Engineering
Construction: Chandos Construction
Commissioning: Stantec
Landscape: EIDOS
Sustainability: ONPA Architects

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