LAKE LOUISE INN
CONNECTING through NATURE

SHARC ENERGY

CASE STUDY

Lake Louise Inn.

Alberta

SITE INFO

PIRANHA T10	PRODUCT INSTALLED
HOSPITALITY & LAUNDRY	PROJECT TYPE
247 ROOMS	PROJECT SIZE
SEPTEMBER 2018	COMMISSIONED

Commercial Laundry in Beautiful Banff

Lake Louise Inn (LLI) is a 247 room resort nestled within the breath-taking Rocky Mountains in Banff National Park, part of a UNESCO World Heritage Site.

Utilizing a **PIRANHA T10** to collect the hot wastewater discharge from their laundry systems, Lake Louise reduced their laundry water heating energy demand by as much as 45%.

Their **PIRANHA T10** wastewater heat recovery system intercepts laundry room wastewater, extracts heat from it and uses that heat to offset the energy required by the hotel to heat water for the laundry.

QUICK FACTS

- 137 MWh/year heat output
- PIRANHA significantly reduced load and runtime of boilers
- 32,000 litres of propane saved per year
- Lake Louise Inn's laundry room hot water is propane heated

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SPECS & PERFORMANCE

PRODUCT INSTALLED

PIRANHA T10

PROJECT TYPE	PROJECT SIZE	APPLICATION
HOSPITALITY & LAUNDRY	247 ROOMS	DHW

MAX. DHW TEMP.	APPROX. % DHW LOAD	DESIGN ENERGY OUTPUT (MBH)	AVERAGE EFFICIENCY (COP)	BASELINE	BASELINE EFFICIENCY
120°F/ 49°C	50%	120	5.25	PROPANE	60%

IMPACT

GHG REDUCTION (metric t CO_2e/year)	AVOIDED FOSSIL FUELS (therm/year)
35	7,730
NET ENERGY REDUCTION (MMBTU/year)	**ENERGY REDUCTION *VS* BASELINE**
685	44%

APPROXIMATE IMPACTS

CARS OFF ROAD **7.6**

TREE OFFSETTING CO_2e **1,591**

GLOSSARY

DHW · DOMESTIC HOT WATER
COP · COEFFICIENT OF PERFORMANCE
AVERAGE EFFICIENCY (i.e. 3.7=370%)

HEATING ASSUMPTIONS
BOILER AT OPTIMUM CONDENSING

RESULTS

FROM 2 WEEK AUDITED TRIAL (2018)

- ✓ Ran an average of **10.7 hours per day**
- ✓ PIRANHA **output 375 kWh of heat per day** (1.28 million BTU) the equivalent of heating nearly 6,500 litres (1,700 US gallons) of water from 10 to 60°C (50 – 140°F)
- ✓ **PIRANHA reduced propane requirement** by 1,240 litres (327 gallons) the equivalent of 1.93 tonnes of CO_2e

Contact SHARC to find out more!

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