



KCP&L Business Energy Savings

**INVEST IN COOL TEMPS
AND LOW COSTS.**

Decrease costs and minimize your electric footprint with a new or upgraded chiller.

You don't have to break the bank to cool your facility. Take advantage of KCP&L incentives to upgrade to a high-efficiency chiller.

TIME TO UPGRADE

Replacing an aging cooling system with a modern, high-efficiency chiller is one of the most cost-effective upgrades you can make to your facility. With generous KCP&L incentives and energy-saving advancements like magnetic bearings and variable speed drives, a high-performance chiller combines everyday comfort with significant long-term savings.

INVEST IN THE BEST

When it comes to cooling systems, investing in quality pays off. As shown in the example, upgrading to a more efficient water-cooled centrifugal chiller will save this customer nearly \$416,000 over the 30-year lifespan of the equipment—effectively paying back \$2.49 for every dollar spent.

	BEST Efficient option	BETTER Code compliant unit	GOOD Existing unit
Capacity (tons)	400	400	400
Annual Energy Consumption (kWh)	205,055	313,316	443,902
Coincident Peak Demand (kW)	126.54	167.87	239.43
Total Project Costs	\$400,000	\$329,142	-
First-Year Energy Savings (kWh)	238,847	130,586	-
First-Year Demand Savings (kW)	112.88	71.55	-
First-Year Utility Bill Savings	\$21,869	\$12,114	-
Incremental Cost	\$70,858	-	-
Simple Payback (years)	4.93	N/A	-
Savings to Investment Ratio	2.49	N/A	-
Estimated Incentive	\$22,730	\$0	\$0
Total Cost of Ownership	\$1,293,065	\$1,709,042	-

SUCCESS EXAMPLE

By choosing the most efficient option, this customer spent an extra \$38,373 in the first year. In return, that customer will save over 10 times that amount over the next 30 years.

Incremental upgrade cost	(\$70,858)
— First-year energy savings over code compliant unit	(\$9,755)
— KCP&L incentive	(\$22,730)
= First-year equipment premium	(\$38,373)

Utility bill savings calculated with a blended average commercial rate of \$0.084/kWh and \$4.00/kW monthly. Data assumes a 3 percent inflation rate and an incremental peak demand savings of 41.33 kW.

Give your energy costs the freeze.

Get started at kcpl.com/mybusiness or call (866) 847-5228 for more information.



Which type of chiller is right for you?

- ▶ **Water-cooled chillers** – Typically in facilities with capacities greater than 300 tons, often much larger
 - ▶ **Centrifugal** – Often the most efficient and cost-effective option for larger machines. Typical capacity: > 300 tons, up to thousands of tons per unit.
 - ▶ **Screw-driven** – Effective for noise-sensitive areas. Comparable with centrifugal efficiency but can be cost-prohibitive for larger capacities. Typical capacity: 20–1,000 tons.
 - ▶ **Reciprocating** – Offer the lowest initial cost but are the least efficient and come with higher maintenance costs. Typical capacity: < 150 tons
- ▶ **Air-cooled chillers** – Air-cooled chillers typically work best in facilities with capacities under 500 tons, and can be stored outside to save space. Although the initial cost is lower, they are generally far less efficient than similar-sized water-cooled chillers.

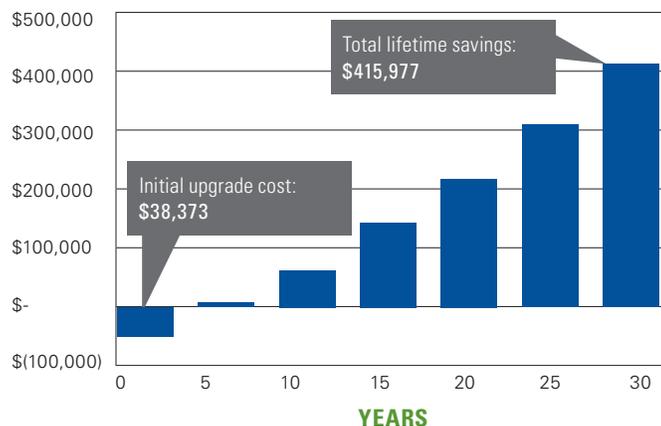
Opportunities to save

- ▶ **Proper sizing**
 - ▶ Don't pay more for capacity you don't need
 - ▶ Oversized chillers can lead to excessive wear from frequent starting/stopping
- ▶ **Advanced technology**
 - ▶ Variable-speed drives save energy by optimizing the motor speeds
 - ▶ Magnetic bearings save energy by reducing friction inside the motors
- ▶ **Longer life cycles**
 - ▶ The average lifespan of chillers can exceed 30 years. Always consider the full lifecycle costs when making purchasing decisions.

Experience the benefits

- ▶ *Greater employee comfort and productivity*
- ▶ *Quieter system operation*
- ▶ *Simple system monitoring and control*
- ▶ *Ability to reinvest savings into future business initiatives*
- ▶ *Achieve sustainability goals*

Savings over time: Cumulative cashflow



AVOID THE ANNUAL COST OF WAITING

The customer in this example will effectively spend an average of \$25,420 more on energy every year they delay upgrading their system to the best option detailed previously.

Give your energy costs the freeze.

Get started at kcp.com/mybusiness or call (866) 847-5228 for more information.