

SAVINGS THROUGH TECHNOLOGY

Deep Lake Water Cooling

Tap into savings

Toronto's cold lake offers a unique and sustainable cooling strategy

getty
espiegle

For buildings with central cooling plants, a chiller can be the single largest consumer of electricity, adding up to significant costs. That's why Toronto Hydro has teamed up with Enwave to offer **Deep Lake Water Cooling** (DLWC) to buildings in Toronto's downtown core.

DLWC harnesses the renewable cold temperature of the water at the bottom of Lake Ontario to cool buildings. Don't wait until the end of its useful life to replace your chiller. Start saving now with DLWC – a sustainable, energy-efficient solution to reduce water and cooling costs.

The benefits run deep

ENERGY SAVINGS UP TO 90%

Compared to a chiller, DLWC can reduce electricity use by as much as 90%. It also decreases water costs and extends the life of existing equipment, reducing maintenance costs too.

PREDICTABLE OPERATING COSTS

While Global Adjustment costs vary according to market price, DLWC offers rate stability with fixed contractual pricing.

A LOCAL, SUSTAINABLE SOLUTION

Based in Toronto, Enwave's DLWC can help reduce your carbon footprint and meet corporate sustainability goals.

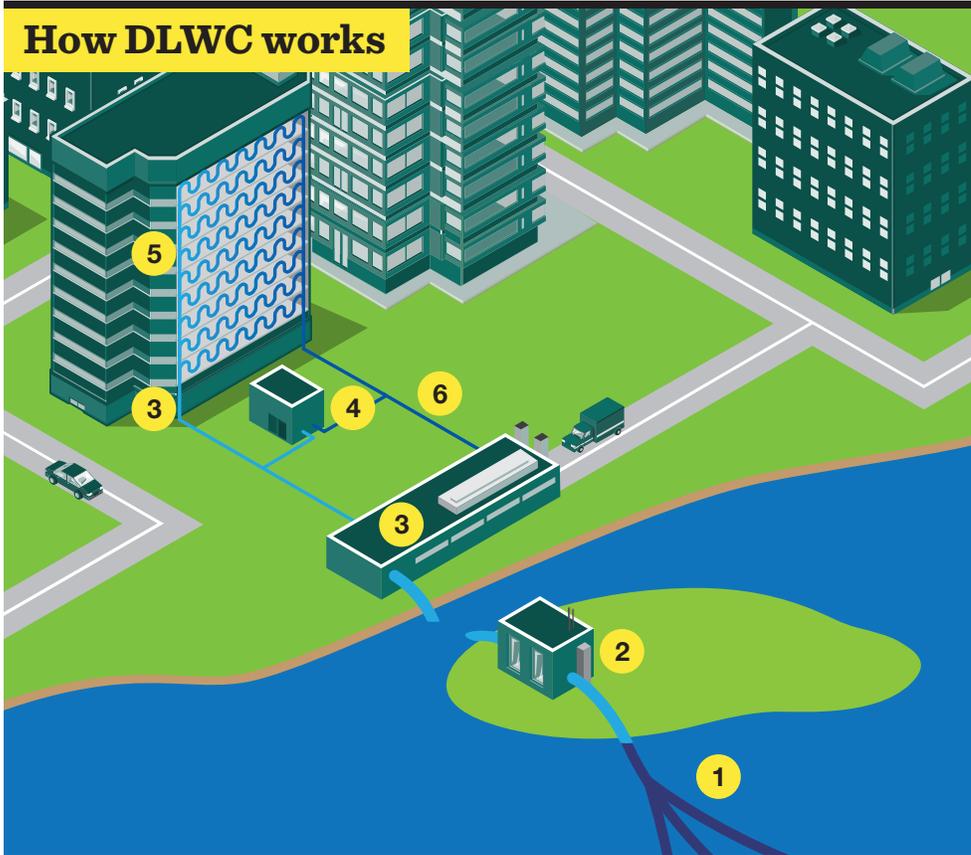
SEAMLESS INTEGRATION

Depending on infrastructure requirements, installation is turnkey and non-disruptive, with no inconvenience to your tenants.

QUIET AND SPACE-FRIENDLY

Eliminating heavy mechanical equipment means less noise and more opportunity to repurpose rooftops, penthouses and basement spaces.

How DLWC works



1 A renewable, year-round resource

Pipes draw the very cold, dense water (4°C) that sinks to the bottom of Lake Ontario.

2 Water treatment

Water is treated and filtered as drinking water to ultimately supply the City.

3 Heat exchange process

Heat exchangers at the John Street Pumping Station transfer heat into the City's drinking water supply, in the process cooling Enwave's closed-loop system. Water from the two systems never mix.

4 Built-in redundancy

During periods of peak demand, additional cooling is available at the Simcoe St. Cooling Plant, and a number of other plants in Enwave's network.

5 Sustainable building cooling

Chilled water circulates through the building's cooling system.

6 Closed Cooling Loop

Warm water then returns to the John Street Pumping Station where the cycle is repeated.

Is DLWC right for my facility?

I OWN OR OPERATE ONE OF THE FOLLOWING:

- Data centre
- Hotel or restaurant
- Office tower
- Multi-residential building
- Healthcare facility
- Educational institution
- Entertainment facility



MY BUILDING:

- Has a central cooling plant
- Has an annual peak demand of 1 MW or more (2 to 3 GWh/year, based on 2,000 to 3,000 hours/year)
- Is located in the downtown core in the area bordered by Bathurst St., Front St., Parliament St. and Wellesley St.

GET REBATES FOR DLWC

Retrofit Program incentives are available to implement DLWC in your building. Contact our Energy Experts today to get started.

ENWAVE: LEADERS IN INNOVATION



Enwave's DLWC system delivers clean, reliable and energy-efficient cooling to 71 buildings (and counting) in Toronto's downtown core. They'll work with you to customize a solution for your building.

CASE STUDY

BAY ADELAIDE CENTRE

Switching from chiller-powered cooling to DLWC has improved the building's operational performance and sustainability.

Electricity purchased from the grid reduced by **15%**
(enough to power 400 homes a year)

Carbon emissions reduced by **311** metric tonnes

37 million litres of water saved annually.

CONTACT OUR ENERGY EXPERTS TO SEE IF DEEP LAKE WATER COOLING IS RIGHT FOR YOU

torontohydro.com/watercooling

BUSINESS PROGRAM HOTLINE: 416-542-3388



Subject to additional terms and conditions found at torontohydro.com/business. Subject to change without notice. Save on Energy is powered by the Independent Electricity System Operator and brought to you by Toronto Hydro.™ Official Mark of the Independent Electricity System Operator. Used under licence. ©A registered trademark of Toronto Hydro Corporation used under licence. 'Toronto Hydro' means Toronto Hydro-Electric System Limited.

