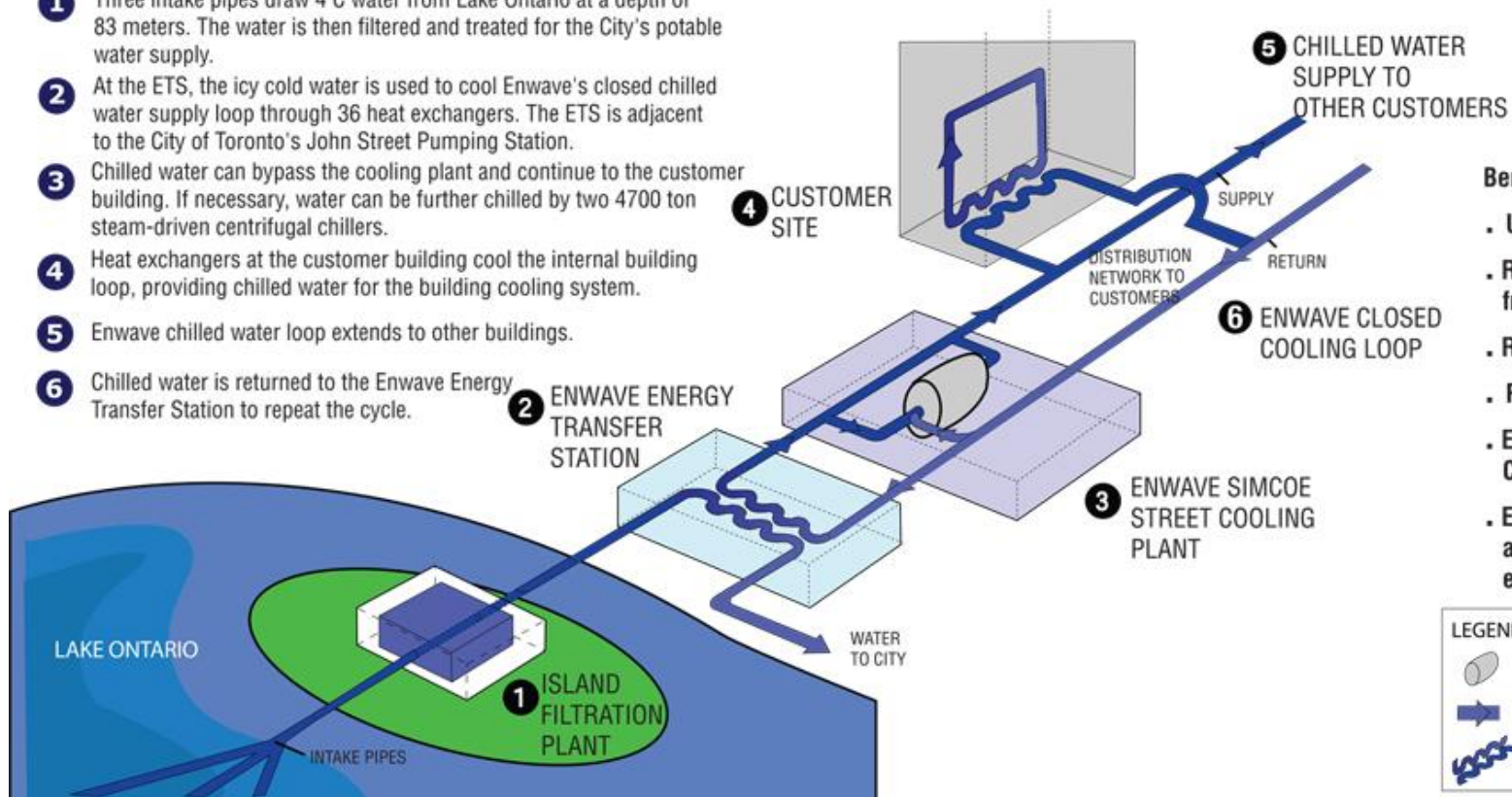


# Deep Lake Water Cooling System

- 1 Three intake pipes draw 4°C water from Lake Ontario at a depth of 83 meters. The water is then filtered and treated for the City's potable water supply.
- 2 At the ETS, the icy cold water is used to cool Enwave's closed chilled water supply loop through 36 heat exchangers. The ETS is adjacent to the City of Toronto's John Street Pumping Station.
- 3 Chilled water can bypass the cooling plant and continue to the customer building. If necessary, water can be further chilled by two 4700 ton steam-driven centrifugal chillers.
- 4 Heat exchangers at the customer building cool the internal building loop, providing chilled water for the building cooling system.
- 5 Enwave chilled water loop extends to other buildings.
- 6 Chilled water is returned to the Enwave Energy Transfer Station to repeat the cycle.



## Benefits:

- Uses 90% less electricity
- Reduces thermal discharge from power plants to the lake
- Reduces air pollution
- Reduces CO<sub>2</sub> emissions
- Eliminates ozone depleting CFCs
- Eliminates cooling towers and improves water efficiency