

C A S E S T U D Y

Bell Telephone (operated by Nexacor) Data Centres Toronto ON Canada



OVERVIEW

All data centres rely on reliable and hard-working HVAC (Heating, Ventilation and Air Conditioning) systems to maintain proper temperature and humidity 24/7/365 in the building, with the heavy heat load of thousands of computers and other electronic equipment.

WATER SYSTEM CHALLENGES

The 7 Evaporative Condenser Cooling Towers (installed in 3 buildings) had shown scale build up for a long time, the operations team had tried chemical approach to reduce the problem and remove the hard scale formation, but the problem was never solved, causing high energy costs, many unplanned shut downs and very low operation performance.

SOLUTION

In 2010, 2 (two) *EnviroTower* systems based on **ScaleBuster®** conditioning technology have been installed to treat the cooling systems' water in one data centre in Toronto (Asquith). Shortly after, a second data centre also in Toronto (Simcoe) has been equipped with

3 (three) *EnviroTower* systems. A third data centre (Pharmacy) has been equipped with a larger *EnviroTower* system (treating the 2 HVAC systems) in 2011.

RESULTS

In a few months it was clear that the cooling systems are all in a better condition, most scale formation on the condensers (and other parts of the cooling system) were dissolved. The systems had been scale-free for the 3,6,9 and 12 months inspections. Operation costs (mainly energy, but also water, maintenance and of course chemicals) were cut drastically. System's performance parameters were at their highest ever.

ABOUT THE TECHNOLOGY

EnviroTower, a clean technology industry leader, provides a proven, reliable solution for maximizing energy and water efficiencies while minimizing environmental impacts of cooling towers. The company enables commercial, institutional and industrial customers to drive down their energy and water costs through a clean, comprehensive water treatment system that delivers consistent, measurable results. See www.scalebuster.com/envirotower for more.

