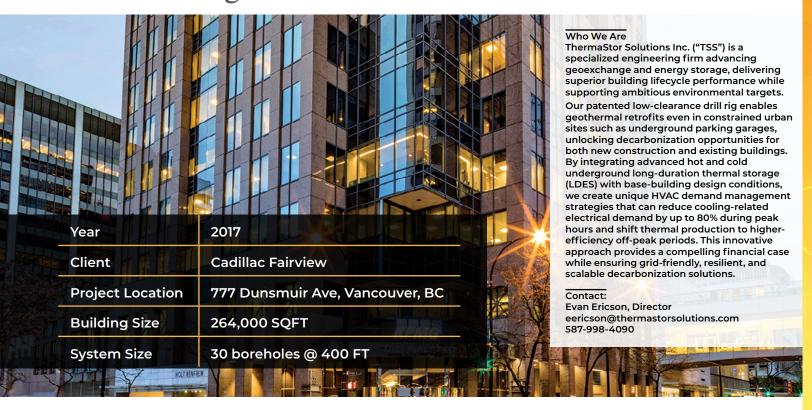


Pacific Centre Tower

GeoExchange Retrofit





A decade before the concept of decarbonizing commercial buildings heating systems was commonplace, Cadillac Fairview self imposed mandates to improve the efficiency of their Class A building portfolio. Despite falling natural gas prices and lack of

greenhouse gas emissions reductions target from any level of government, Cadillac Fairview led the industry with a solution to retrofit geo-exchange under the existing occupied building.

In 2017, ThermaStor Solutions original management team successfully planned and installed the worlds first 12,000 linear foot retrofit borefield under this commercial building to decarbonize the fossil fuel based heating system.

Lessons Learned

Retrofitting decarbonization systems into fully operational commercial buildings requires

more than engineering - it demands surgical planning and unwavering coordination. This project demonstrated that with clear stakeholder communication and phased implementation, even highly disruptive technologies like geoexchange can be installed with minimal impact on tenants or daily operations. However, before the innovation on drilling technology by TSS partner company, TCE, drilling within a parkade needed to be done with 3 foot drilling rods which rendered this type of project unfeasible at scale.

