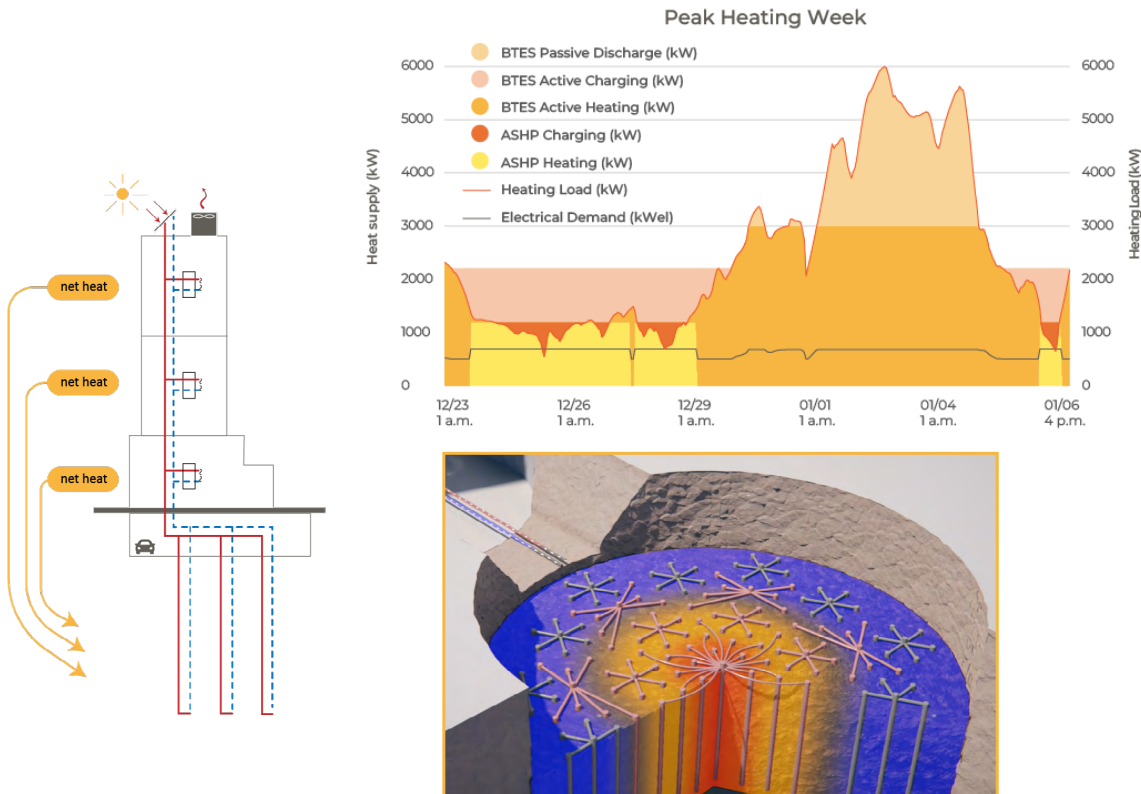


High-Rise Decarbonization with Thermal Storage

At TSI we understand the global need for reliable decarbonization and the challenges that come along with it. We provide underground Long Duration Energy Storage to enhancing sustainability where it matters most.



High-Rise Pain Points

- Grid Availability
- Energy Performance Standards
- Peak Demand Charges
- Electrification of Heat

The Solution

We enable grid-friendly buildings by using thermal storage to allow for the production of heating and cooling energy during off-peak hours.

- Heat / 'Cool' Stored Underground, "Reimagine" Thermal Processes
- No 'New' Tech (Heat Pumps / Cold BTES / Hot BTES / PV Thermal)
- Free Htg/Clg: Diurnal + Seasonal Energy Storage (**BETTER**)
- Borefield size up to 50% smaller (shallower, closer) V.S. Georexchange (**CHEAPER**)
- Thermal Battery = Peak Shifting (**FASTER**)

What You Can Expect

- Accelerated Decarbonization with Less Electricity
- Minimum Disruption to Operations
- Maximum Renewable & Waste Heat Recovery
- Attractive Lifecycle Costing
- 20-30% Peak Grid Demand Reduction
- Low Storage Cost (~\$3-8/kWh) V Batteries (~150/kWh)

ThermaStor is a Canadian startup with global ambitions to decarbonize the built environment.

Mission: Design cost-effective, grid-friendly decarbonization solutions that optimize **Cost**, **Carbon**, and **Demand**. Our thermal energy storage innovations enhance building performance, decouple electrification from grid constraints, and deliver scalable, future-ready systems while demonstrating superior lifecycle performance.

In partnership with **ThermaCity Energy**, we deploy long-duration energy storage (LDES) solutions for both retrofits and new builds that makes electrification better, faster, and cheaper with their patent pending innovative approach to construction.

WIN-WIN-WIN for all stakeholders: **citizens**, **corporations** and **government**

Contact

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