



Project: Sorel-Tracy Detention Facility
Sorel-Tracy, Québec



The new Sorel-Tracy Detention Facility was inaugurated on May 23, 2017. The Institution has eight lodges for a total of 300 spaces. In addition, an additional 80 places are distributed in dormitories for people serving an intermittent sentence.

This new suburban-type construction makes it possible to better meet functional requirements and security needs. Cost of building design, construction, maintenance and asset maintenance for 30 years: \$ 267.1 million in present value.

Geo-Energie was commissioned to design and supervise the installation of the innovative geothermal heat exchanger. Indeed, because of the particular geological conditions, making a conventional vertical design very inefficient, Geo-Energie proposed a horizontal closed-loop design of "Slinky" type in hybrid primary-secondary configuration. There are 10 groups of double Slinkys in parallel, containing more than 44 kilometers of pipes.

The geothermal heat exchanger of this project, with a 9 football fields covering area, makes it the largest horizontal geothermal heat exchanger of its kind in Canada.



Geo-Energie inc.
Ingénierie, design