

December 2001

Taking stock: Intergy NES solves a DC Power problem.

The fully automated Toronto Stock Exchange (TSE) accounts for nearly 95% of all equity trading in Canada. The Exchange started operating in 1852 when Toronto had a population of 32,000 and twelve businessmen began trading securities.

By 1901 the population had increased to more than 200,000 and the number of stocks traded on the Exchange rose to 200. By 1953 the Toronto Stock Exchange had the highest trading volume of any North American Exchange. In 1997 the TSE became the largest stock exchange in North America to choose a floorless electronic environment when its trading floor closed. In March last year the TSE monthly trading topped \$100 billion and daily trading value topped \$6 billion.

This level of electronic trading requires secure and reliable power supplies to maintain integrity and consistency. So, it was against this background that Symcor Technology Solutions (formerly Optus e-Business Solutions) was contracted to design, install and configure a new data network for the TSE.

Initially, a central DC power plant was to be installed at the TSE with cables running to each of the loads around the building.

However, this configuration was not possible so Symcor went looking for a rack mountable solution that could be installed with the equipment. The Intergy Network Energy Source (NES) from Powerware was the only solution found that had built in batteries and did not require special installation procedures.

The final configuration required four Intergy NES systems powering the Cisco ONS15454 boxes and fiber optic link.

"In addition to the unique features that Intergy NES offered, Symcor selected the solution because it provided ease of installation, high reliability and easy maintenance which was essential for the TSE when considering the upgrade of its IT network," said Simon Third, Powerware Technical Leader NES Solutions.



Toronto central business district and TSE building (just below center).



The Intergy Network Energy Source (NES) DC power system. The model shown has two battery trays and three rectifier modules.