

Power Optimizer™ Case Study in Montreal, Canada

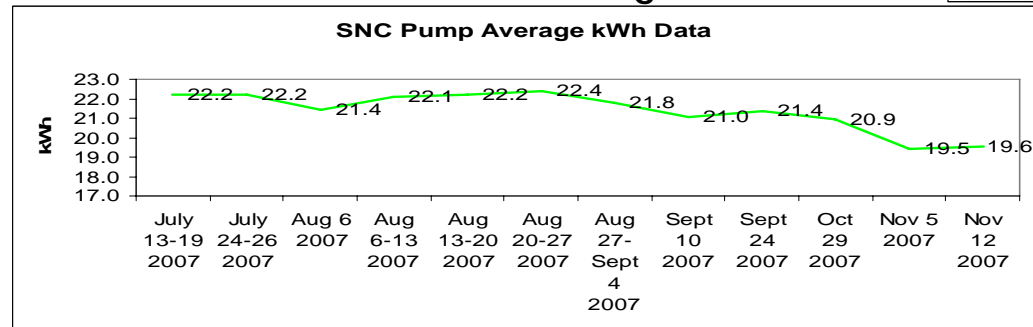


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SNC-Lavalin is one of the world's leading groups of engineering and construction companies, a key player in facilities, operations, management and infrastructure, with offices in 30 countries and projects in some 100 countries.



12.0% kWh Savings



Demonstration Project:

A Power Optimizer™ (rated 25 kVA, 600 volt, 60 Hz) was installed on a water chiller pump serving one of the 22 floors in SNC-Lavalin's head office located in Montreal, Canada and has been operating for over 16 weeks since July 19, 2007. Based upon the realized savings, plans are underway to install Power Optimizers™ to serve all motors, lighting and electrical outlets throughout the 23 storey building.

Load:

25 hp water chiller pump motor (600 volt, 1770 rpm, 60 Hz), steady inductive load operating continuously (24 hours, 7 days a week).

Monitoring and Results:

kWh results were determined using a kWh meter installed by ProSonic, SNC-Lavalin's electrical contractor. The results were reviewed by an engineering energy expert of SNC-Lavalin. The baseline (prior to Optimizer installation) average energy consumption per hour was 22.21 kWh. After installation it dropped to 19.55 kWh as measured on Nov. 12, 2007, for a savings of 12.0%. In addition the kVA decreased by 30.2% (from 29.9 to 20.8) and the power factor improved by 26.1% (from 0,744 to 0.938). This demonstration project is still under continued study.



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