

# Sensors for Energy Management

(Commercial Building Case Study)

A leading Vancouver clean tech company helps one of the city's landmark buildings reduce energy consumption and go green. Oxford Properties has been one of the city's pioneering property management companies in implementing sustainability initiatives within their buildings.

These initiatives have helped them provide a more comfortable atmosphere for their tenants while reducing operating costs. One of the latest initiatives to be implemented was developed by Vancouver based, Energex Inc.

Energex's Occupancy Control Technology actively turns off lights and turns down the temperature throughout the day when rooms become unoccupied. After preliminary testing, the Energex testing has now been deployed in Oxford's 401 West Georgia, Oceanic Plaza, and most recently the Marine Building.

Data Monitoring within the Marine building offices showed that without the Energex system the average heating and lighting run time was 408 minutes during standard operating hours of 6am – 6pm. With the Energex system, the run time was reduced to only 210 minutes.

Recently the systems were deployed within another Trade Mark Building, The Harbor Centre, managed by Polaris Realty. Initial data logging within their boardroom showed:

- During the measured period, the lights were manually turned off 40 times and turned off by the Energex system 25 times
- The room was unoccupied 73.5% of the time\*
- The HVAC demand was reduced by Energex 23.5% of the time\*

\*(During standard workweek and excludes any period timed Building Automation setback was active)

**Energex systems are presently utilized in over 50,000 rooms locally and worldwide. For more information or a pilot program, see their website at [www.energexinc.com](http://www.energexinc.com) or call 1-866-787-1836**



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