



22,368 kg CO<sub>2</sub>e\*

emissions reduced – equivalent of 10,609 litres of gasoline not consumed

203,622 kWh

energy savings



# OUR NEW DUST CONTROL SYSTEM SAVES OVER 200,000 KWH

Inscape

Holland Landing, Ontario

- Installed an advanced on-demand ventilation control system and a variable speed drive

### Previous Equipment

Dust collection system driven by 125 hp fan motor with no controls

### New Equipment

A variable speed drive on the 125 hp fan motor

Advanced on-demand control system

### Verified Savings

Demand savings: 22.5 kW

Energy savings: 203,622 kWh

### Incentives

Project cost: \$54,926.69

**Retrofit Program** incentive: \$20,362.20



\*Canada – National Inventory Report 1990-2009





Inscape designs and manufactures office furniture systems, storage and wall products. Their headquarters in Holland Landing includes their main manufacturing facility from which they serve the North American market.

Inscape Facilities Manager, Michael Brown, is always looking for opportunities to improve the efficiency of the plant and control operating costs.

As part of the manufacturing process, Inscape has a dust collection system that vacuums dust from the routers, saws and buffers at various stations. It's powered by a 125 hp fan motor, which previously ran constantly at full speed, regardless of activity.

**On-demand Ventilation Control System Delivers the Savings**

Inscape worked with a manufacturer of advanced on-demand ventilation control systems for applications such as this. Incentives from Hydro One's Save on Energy program helped substantially to reduce the payback period and improve the system's ROI.

**Controllers, Gates and a VSD on the Motor Make the Difference**

The system modulates suction velocity by using a variable speed drive on the motor and gates at each workstation that open and close based on activity.

That means the motor operates only when needed at a speed appropriate for the activity. Savings were immediate and significant. Demand savings were 22.5 kW and energy savings were 203,622 kWh. The total project cost was \$54,926.69 and the **Retrofit Program** incentive was \$20,362.20.

**SOLUTIONS TO HELP YOU BECOME MORE ENERGY EFFICIENT**

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- energy audits
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- equipment retrofits
- chilled water system upgrades
- process and systems upgrades
- energy managers
- major renovations and new construction
- and more

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