

ROYAL & SUNALLIANCE
ENGINEERING INSURANCE & LOSS
CONTROL SERVICES

MAST
RISK MANAGEMENT

Is your school division doing all it can to reduce energy costs?

Here are some suggestions to help improve the efficiency of your school.

ELECTRICAL SYSTEMS

1. Keep the areas around transformers clear, to avoid inadequate cooling of the coils and increased consumption.
2. Reduce consumption by shutting off any redundant hot water heaters.
3. Schools with large electrical services should have the power factor checked, as a low power factor reading will result in unnecessary consumption.
4. When replacing an electric motor, consider using a high efficiency motor.
5. Schools with large electrical services should have the supply line voltage checked, as low voltage can create energy loss.

MECHANICAL SYSTEMS

1. Consider using an energy management system when upgrading or replacing your existing heating and cooling control system.
2. Reduce the heat/cool demand setting when the school is unoccupied.
3. Ensure the fresh air supply is at minimum setting when the school is unoccupied.
4. Ensure fan bearings are lubricated regularly and that the belts are properly aligned and tightened to reduce friction loss.

HEATING SYSTEMS

1. Perform boiler flue gas analyses at the beginning of each heating season.
2. Check water treatment regularly to reduce scale build up - scale will dramatically increase fuel consumption.
3. Repair leaks to steam or hot water systems right away; which would otherwise result in cold water make up and higher fuel costs.
4. Controlling the amount of boiler blowdowns will reduce water make up and fuel consumption.
5. Repair faulty steam traps and replace leaking safety valves.
6. Insulate heating and cooling pipes.