



As worldwide attention focuses on the need to reduce GHG Emissions due to global warming and preserve our ever changing environment, energy conservation has become an ideal way to counter these negative environmental impacts. The more electricity we can save in our workplace, the less our province needs to rely on carbon emitting power plants to produce power in order to meet growing demand. When we look at a typical work day here at CFB Borden, personnel will notice that energy is used in our buildings to provide a variety of services such as space heating, space cooling, water heating, lighting, refrigeration and electricity for a wide array of equipment. However what many of us may tend to overlook due to our hectic schedules, is that there is a monetary and environmental cost associated with the everyday work activities that we are all tasked with. The electrical department that is situated within the Construction Engineering Section has completed an LED lighting pilot project at building P-154 that was aimed at reducing the overall energy use of the exterior security lighting system while maintaining equivalent lighting levels. This project renders a 2.4 yr return on investment, 80% energy reduction, provides annual energy and maintenance savings of \$3,944.00 and will reduce yearly greenhouse gas emissions by 18 tCO₂. This greenhouse gas emission reduction is equivalent to the emissions from 14.6 barrels of oil consumed. For an in depth look at this initiative, please refer to the pre lighting and post lighting retrofit photos below. The energy requirements for CFB Borden are constantly changing and the Construction Engineering Section is continually implementing new environmentally friendly alternatives, in order to ensure that CFB Borden continues to play a leadership role in maintaining a healthy environment for the future generations to come.

Remember: "SMALL CHANGES, MAKE A BIG DIFFERENCE!"



(BLDG P-154 Pre Lighting Retrofit)



(BLDG P-154 Post Lighting Retrofit)

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