



Performance Reporting Scorecard

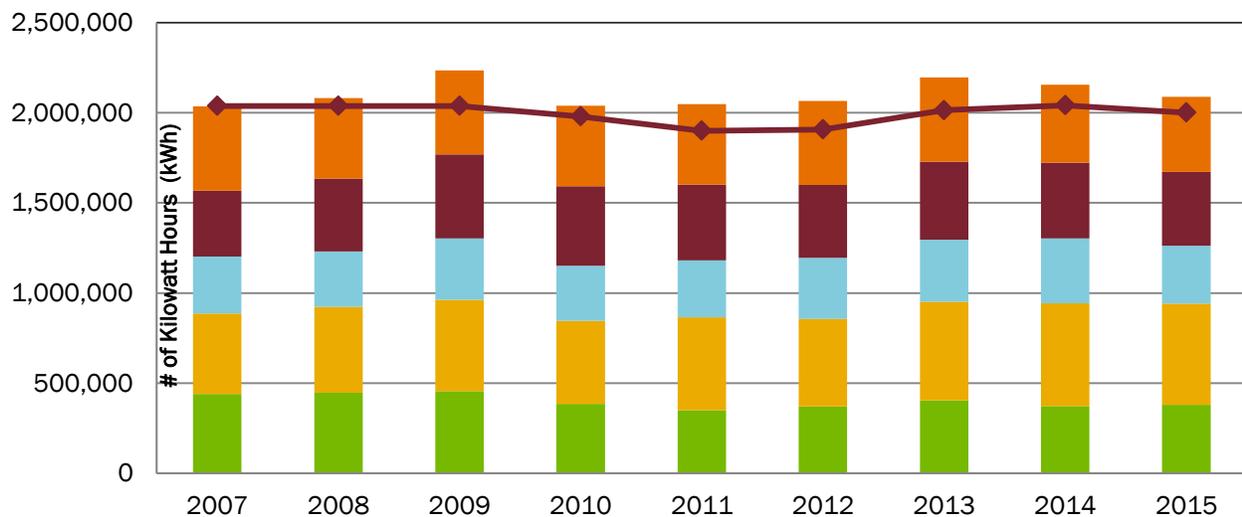
Focus Area: Environment

Municipal Facility Electricity Use

Measure: Number of kilowatt hours (kWh)

| Target | Overview |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| To reduce electricity consumption. Reducing consumption saves money and decreases the amount of greenhouse gas emissions released into the atmosphere. | <p>This scorecard shows electricity consumption for the following buildings: Municipal Hall, Municipal Office Tower, Operations Centre, Randy Herman Building and RCMP Building.</p> <p>These five buildings were chosen out of all of the municipally owned buildings because, alongside the Maple Ridge Leisure Centre and Fire Hall No. 1, they consume the largest amounts of electricity. Maple Ridge Leisure Centre and Fire Hall No. 1 have their own separate scorecards.</p> |

Municipal Facility Electricity Consumption



| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Target ◆◆◆◆◆ | 1,979,921 | 1,899,768 | 1,906,906 | 2,013,539 | 2,041,400 | 2,000,572 |
| Electricity Consumption | | | | | | |
| Municipal Hall | 386,032 | 349,997 | 371,571 | 404,499 | 373,308 | 380,160 |
| Municipal Office Tower | 459,169 | 515,512 | 485,577 | 547,997 | 570,609 | 560,968 |
| Operations Centre | 307,004 | 316,202 | 338,794 | 342,882 | 358,673 | 320,760 |
| Randy Herman Building | 440,160 | 420,480 | 403,680 | 432,480 | 420,480 | 410,400 |
| RCMP Building | 447,360 | 445,440 | 465,360 | 468,835 | 431,681 | 416,880 |

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Status Reports

| | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2015 | There was a 3% decrease in electricity consumption from 2014 levels. |
| 2014 | There was a slight decrease in electrical consumption from 2013 levels. Note: the 2013 data for the RCMP building previously included estimated readings which have been updated with actual readings. |
| 2013 | There was an increase in electrical consumption of 7% from 2012 levels due to an increase in staff level and activity in all buildings. In 2013 staff levels increased by 5% over 2012. Weather patterns also impacted the electrical consumption. Notable retrofits for this year include the Randy Herman Building roofing upgrade and the Office Tower outside wall pack replacement with LED. We are working on a climate normalization model to refine our |
| 2012 | There was a slight increase in electrical consumption from 2011 levels. |
| 2011 | Electrical consumption was reduced slightly from 2010 levels due to the launch of an energy efficient program targeting behaviour change in all municipal facilities. |
| 2010 | Electrical consumption was reduced by 9% from 2009 levels, making this the year with the highest electrical consumption reduction. This was the first year of the City of Maple Ridge and BC Hydro partnership where a dedicated staff person manages electricity consumption. Notable retrofits for this year include the replacement of T12 lamps with more energy efficient T8 lamps in Operations Centre and Municipal Hall. |
| 2009 | There was a 7% increase in electrical consumption from 2008 levels. |

Additional Information

Since 2010, through a BC Hydro and City of Maple Ridge partnership, a dedicated staff person, an Energy Manager, manages electricity consumption for the City. As a result, the City is undergoing and has completed a number of energy efficiency projects in these top consuming buildings and throughout the City. Projects include the replacement of current lighting with energy efficient lighting at the Operations Centre and Municipal Hall. In addition, the Randy Herman building undergone a roofing upgrade.

Each of these five municipal buildings has been the focus of behaviour change campaigns aimed at encouraging staff to reduce electricity consumption through a number of initiatives, including a lights-out campaign, take the stairs instead of the elevator challenge, and quarterly monitor shutdowns. In addition to behavioural changes, weather temperatures (heating and cooling degree days) play a role in energy consumption patterns.

Part of the work of the Energy Manager portfolio is to create site specific targets. As seen in the graph above, the reduction target has fluctuated through the years. This is due to the continual refining of the City's understanding of what influences electrical consumption patterns (staffing and behaviours, weather, old technology, etc). Further analysis will focus on the best performing electrical consumption year, 2010, to determine best practices that could be translated into future year's energy management work plan.

For information on the Corporate Energy Management Program:

To view the Leisure Centre Scorecard: [View Corporate Energy Management webpage](#)
 To view the Fire Hall No. 1 Scorecard: [Leisure Centre Energy Consumption & GHG Emissions](#)
[Fire Hall No. 1 Energy Consumption & GHG Emissions](#)