

Leisure Centre Energy Consumption & GHG Emissions

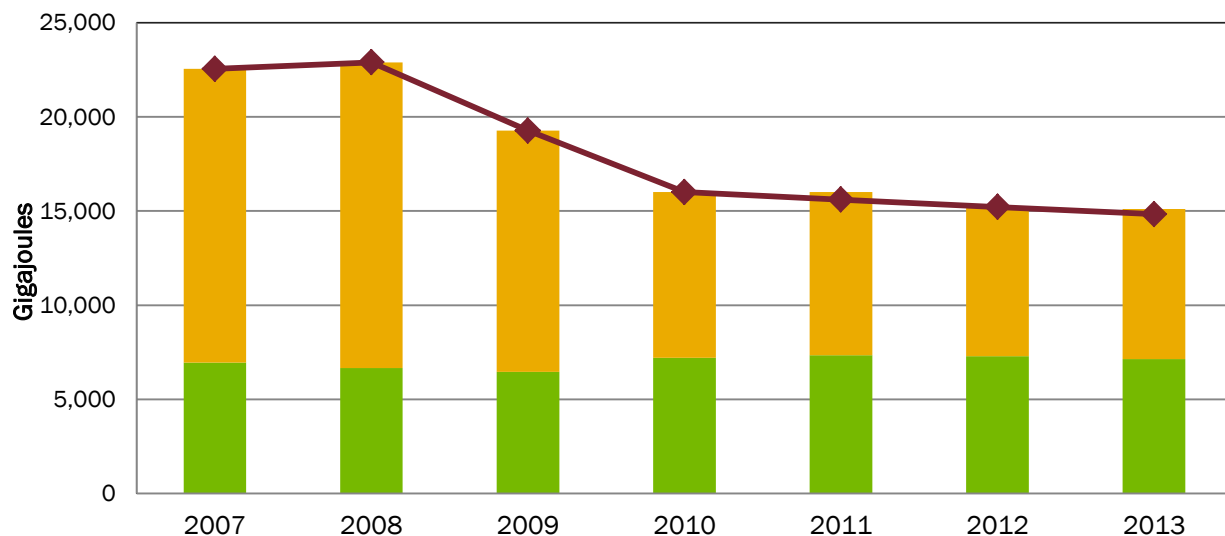
Measure: 1) Number of gigajoules 2) Tonnes of CO2 equivalent




Strategy: By reducing electricity and natural gas consumption, GHG emissions will also be reduced

Focus Area: Environment

Target	Overview
To reduce electricity and natural gas consumption. Reducing consumption saves money and decreases the amount of GHG emissions released into the atmosphere.	<p>The Leisure Centre is a multi-use facility that serves many recreation needs and has over 360,000 visits per year by local residents.</p> <p>As the City's largest consumer of purchased energy and highest emitter of greenhouse gas (GHG) emissions, the Leisure Centre provided a logical choice for an energy efficiency project in 2009 and for ongoing energy efficient improvements.</p>

Electricity & Natural Gas Consumption



	2008	2009	2010	2011	2012	2013
Target 	22,893	19,267	16,002	15,602	15,212	14,832
Actual						
Electricity 	6,662	6,461	7,214	7,347	7,296	7,135
Natural Gas 	16,230	12,806	8,789	8,670	7,951	7,970

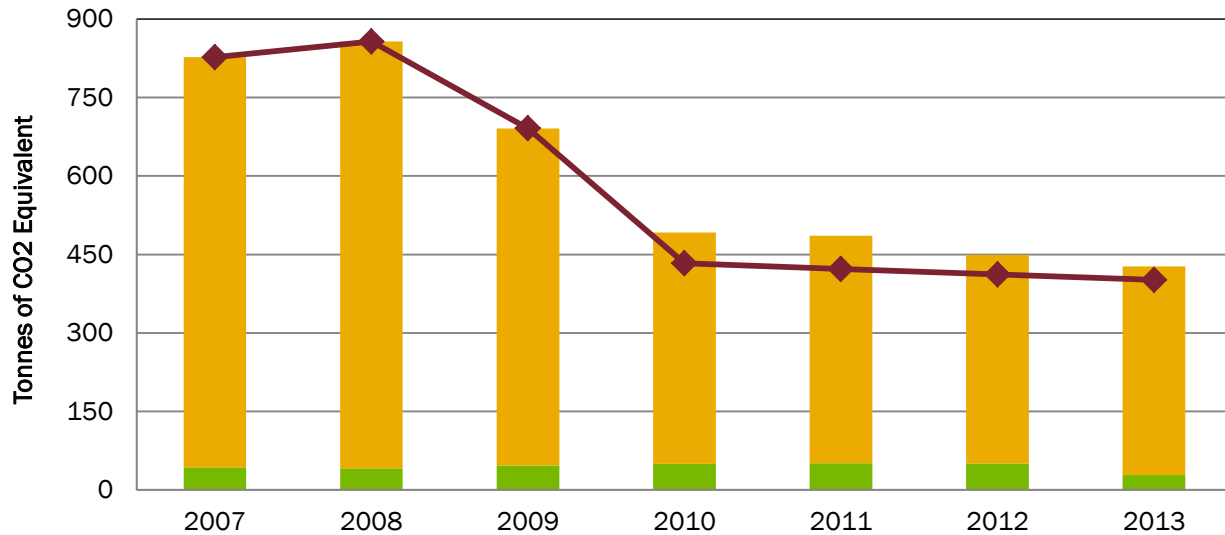
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GHG Emissions



	2008	2009	2010	2011	2012	2013
Target	857	691	433	422	412	401
Actual						
Electricity	41	47	50	51	50	29
Natural Gas	816	644	442	435	399	398

Additional Information

Status 2007-2013: The Leisure Centre is an 80,000 sq. ft. facility that serves many recreation needs in two communities. This high use facility has over 360,000 visits per year from Maple Ridge and Pitt Meadows residents. It features a 6-lane 25-metre competition pool, a 4-lane 25-metre teach pool, a leisure pool, toddlers pool, large swirl pool, water slide, warm wading pool, sauna, steam room and a hot tub. There is also full size gym and weight room.

As the City's largest consumer of purchased energy and highest emitter of greenhouse gases, the Leisure Centre provided a logical choice for a high-profile energy efficiency project in our community. A combination of non-functioning and end of useful life mechanical equipment presented an opportunity to minimize operational costs and to improve energy efficiency and reduce GHG emissions. Energy efficiency improvements were completed from August to December 2009. GHG emissions were anticipated to be reduced by about 50% from 2008 levels. In the first six months of 2010, natural gas consumption was reduced by 47% from the same period in 2009.

Due to the significant reduction in energy consumption as a result of the 2009 energy efficient improvements, a new baseline was set in 2010. The new baseline incents for even further energy reductions of 2.5% per year post construction. Since 2010, further energy reduction opportunities have been identified, specifically around lighting retrofits.

In 2013, Council approved a project to retrofit lighting in the Greg Moore Youth Centre and second floor gym. Work on this project will begin in spring 2014.

For more information on energy efficiency at the Leisure Centre:

[View Leisure Centre webpage](#)

For more information on Maple Ridge GHG emissions:

[View GHG Emissions webpage](#)