

## Energy Report Summary for March 2011

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



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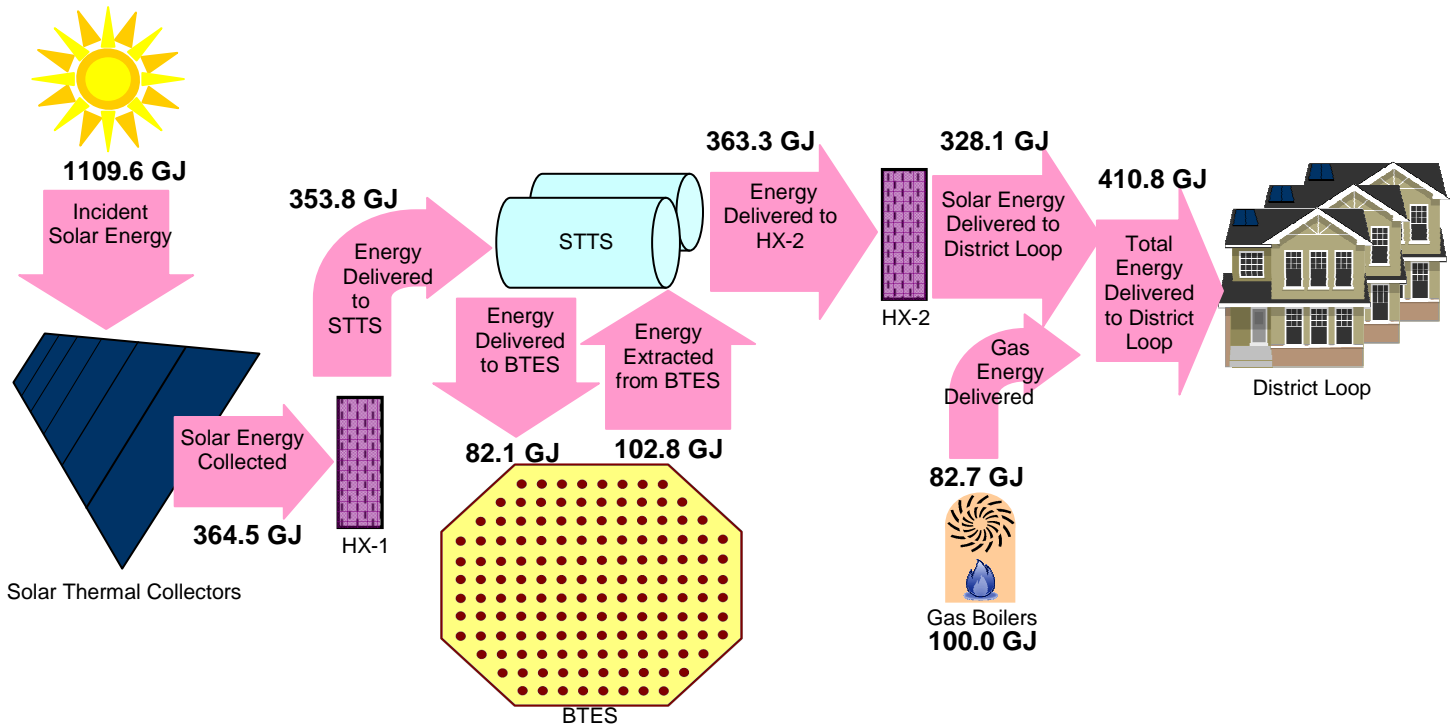
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for March 2011

This document summarizes the energy generated and used within the Drake Landing Solar Community at Okotoks Alberta.

Additional Information may be found here: <http://www.dlsc.ca>



System Energy Diagram

<b>Table 0-1 Summary for March 2011</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2010</b>
Total Incident Solar Energy	1109.6 GJ	8521.8 GJ
Total Solar Energy Collected	364.5 GJ	2644.2 GJ
Total Solar Energy Delivered to STTS	353.8 GJ	2549.4 GJ
Total Energy Delivered to BTES	82.1 GJ	1323.3 GJ
Total Energy Extracted from BTES	102.8 GJ	1170.5 GJ
Total Energy Delivered from STTS to HX-2	363.3 GJ	2329.5 GJ
Total Solar Energy Delivered to District Loop	328.1 GJ	2113.4 GJ
Natural Gas Energy Used	100.0 GJ	432.1 GJ
Boiler Thermal Energy Delivered to the District Loop	82.7 GJ	403.1 GJ
Total Energy Delivered to District Loop	410.8 GJ	2516.6 GJ
Average Solar Collector Efficiency	33 %	31 %
Average Efficiency of HX-1	97 %	96 %
Average Efficiency of HX-2	90 %	91 %
Average BTES core temperature	42.2 °C	53.8 °C
Electrical energy used	18.8 GJ	99.4 GJ
PV energy generated	0.9253 GJ	6.6 GJ
Net change in energy stored in STTS	23.58 GJ	-16.3 GJ
Solar Fraction	80 %	84 %