



## Energy Report Summary for March 2009

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



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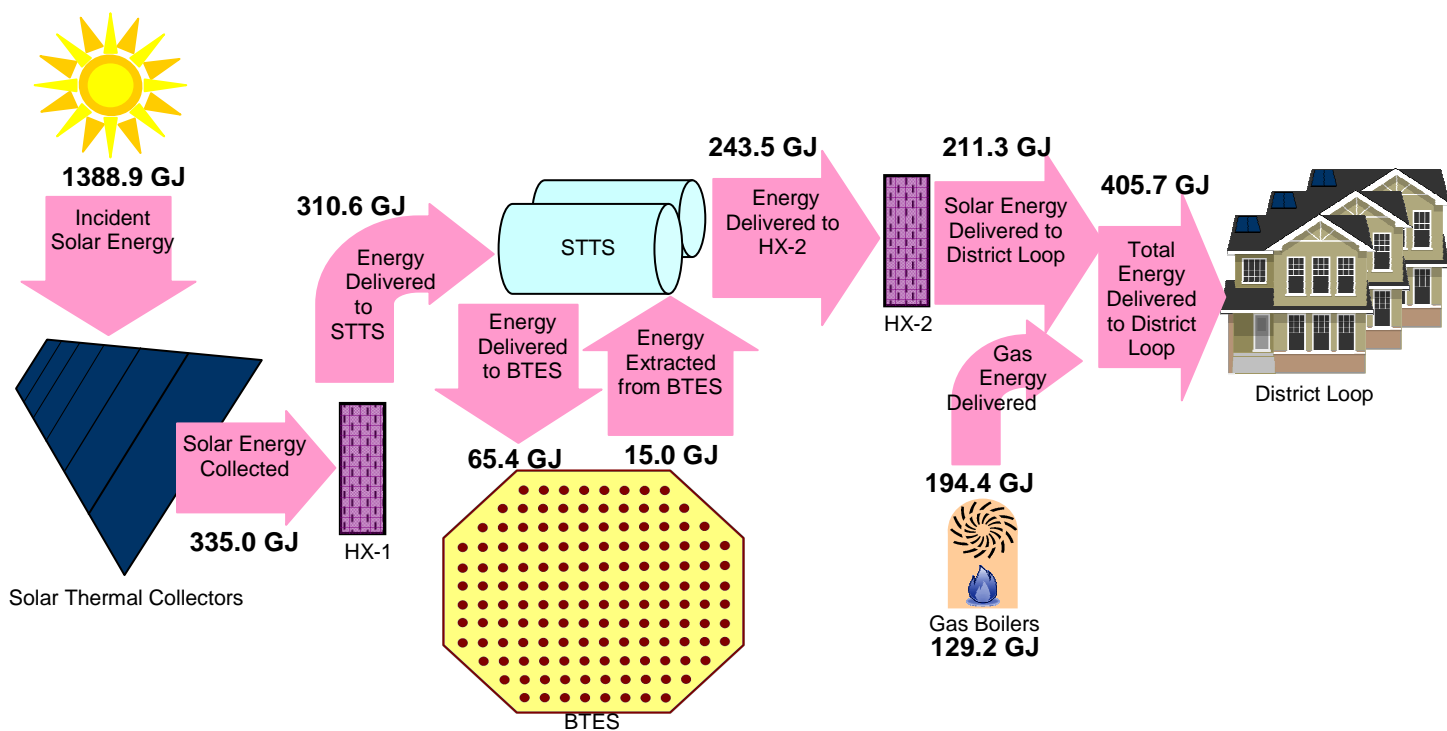
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for March 2009

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 1 Summary for March 2009</b>		
<b>Description</b>	<b>This Month</b>	<b>Since April 1, 2008</b>
Total Incident Solar Energy	1388.9 GJ	13440.6 GJ
Total Solar Energy Collected	335.0GJ	4454.7 GJ
Total Solar Energy Delivered to STTS	310.6 GJ	4318.1 GJ
Total Energy Delivered to BTES	65.4 GJ	2689.7 GJ
Total Energy Extracted from BTES	15.0 GJ	569.2 GJ
Total Energy Delivered from STTS to HX-2	243.5 GJ	1890.2 GJ
Total Solar Energy Delivered to District Loop	211.3 GJ	1913.2 GJ
Natural Gas Energy Used	131.0 GJ	1078.6 GJ
Boiler Thermal Energy Delivered to the District Loop	194.4 GJ	1073.6 GJ
Total Energy Delivered to District Loop	405.7 GJ	2986.9 GJ
Average Solar Collector Efficiency	24.1%	33.1%
Average Efficiency of HX-1	92.7%	96.9%
Average Efficiency of HX-2	86.8%	101.2%
Average BTES core temperature	38.8 °C	46.6 °C
Electrical energy used	10.1 GJ	96.8 GJ
PV energy generated	1.2426 GJ	13.3 GJ
Net change in energy stored in STTS	-27.88 GJ	-21.5 GJ
Solar Fraction	52.1%	64.1%