



## Energy Report Summary for March 2008

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



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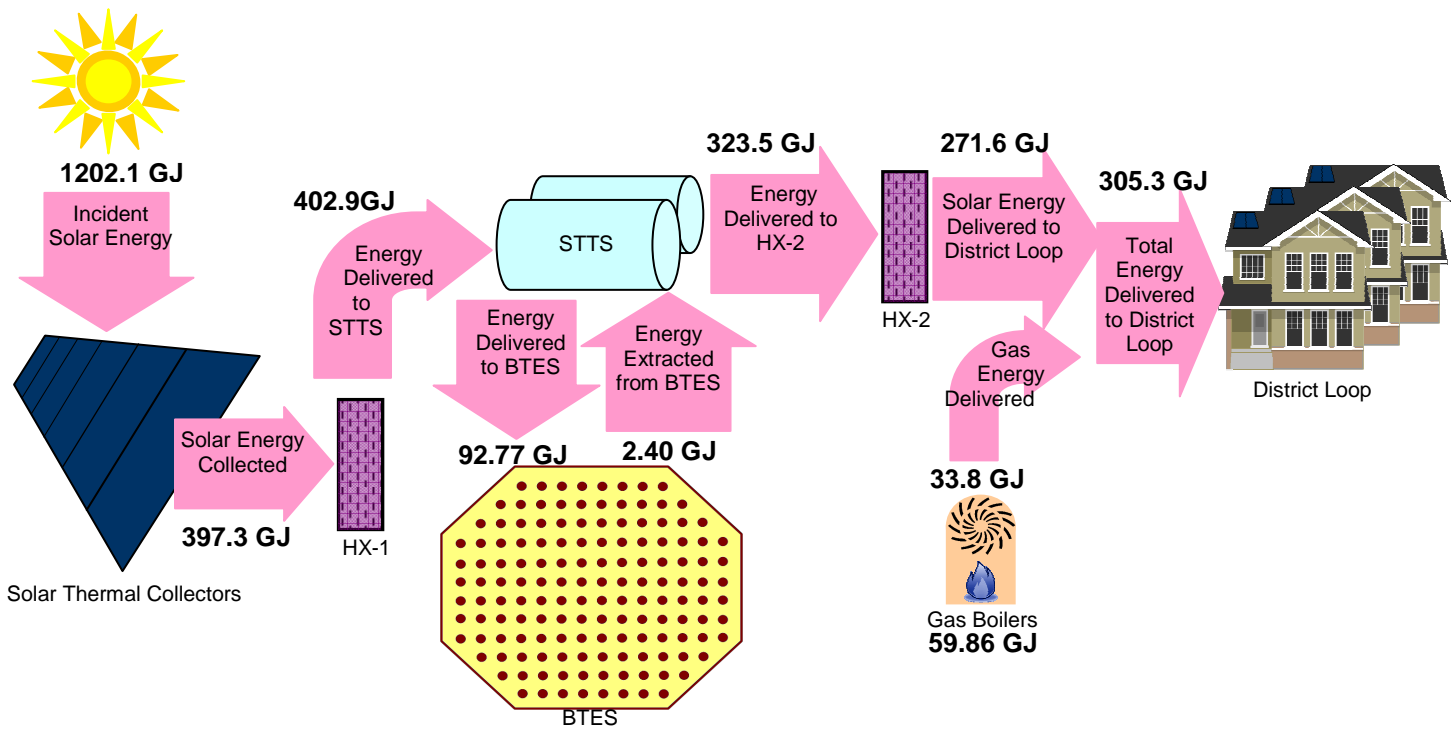
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for March 2008

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>Summary for March 2008</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2007</b>
Total Incident Solar Energy for the month	1202.1 GJ	9385 GJ
Total Solar Energy Collected for the month <sup>1</sup>	397.3 GJ	3097 GJ
Total Solar Energy Delivered to STTS for the month	402.9 GJ	3453 GJ
Total Energy Delivered to BTES for the month	92.77 GJ	1717.1 GJ
Total Energy Extracted from BTES for the month	2.40 GJ	132.8 GJ
Total Energy Delivered from STTS to HX-2	323.5 GJ	1881.2 GJ
Total Solar Energy Delivered to District Loop for the month	271.6 GJ	1283.6 GJ
Natural Gas Energy Used	59.86 GJ	1543.3 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	33.8 GJ	1319.1 GJ
Total Energy Delivered to District Loop for the month	305.3 GJ	2602.5 GJ
Average Solar Collector Efficiency for the month	33.1%	33%
Average Efficiency of HX-1 for the month	96.6%	90%
Average Efficiency of HX-2 for the month	84.0%	68%
Average BTES core temperature for the month	35.76 °C	39.02 °C
Average BTES core temperature at start of month	32.26 °C	39.41 °C
Average BTES core temperature at end of month	33.82 °C	38.25 °C
Change in average BTES core Temperature during the month	1.56 °C	-1.16 °C
Electrical energy used for the month	5.49 GJ	136.03 GJ
PV energy generated for the month	1.243 GJ	6.41 GJ
Net change in energy stored in STTS during the month	7.11 GJ	-3.22 GJ
Solar Fraction	89.0%	49 %

<sup>1</sup> Corrected for glycol concentration variance