



## Energy Report Summary for July 2007

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



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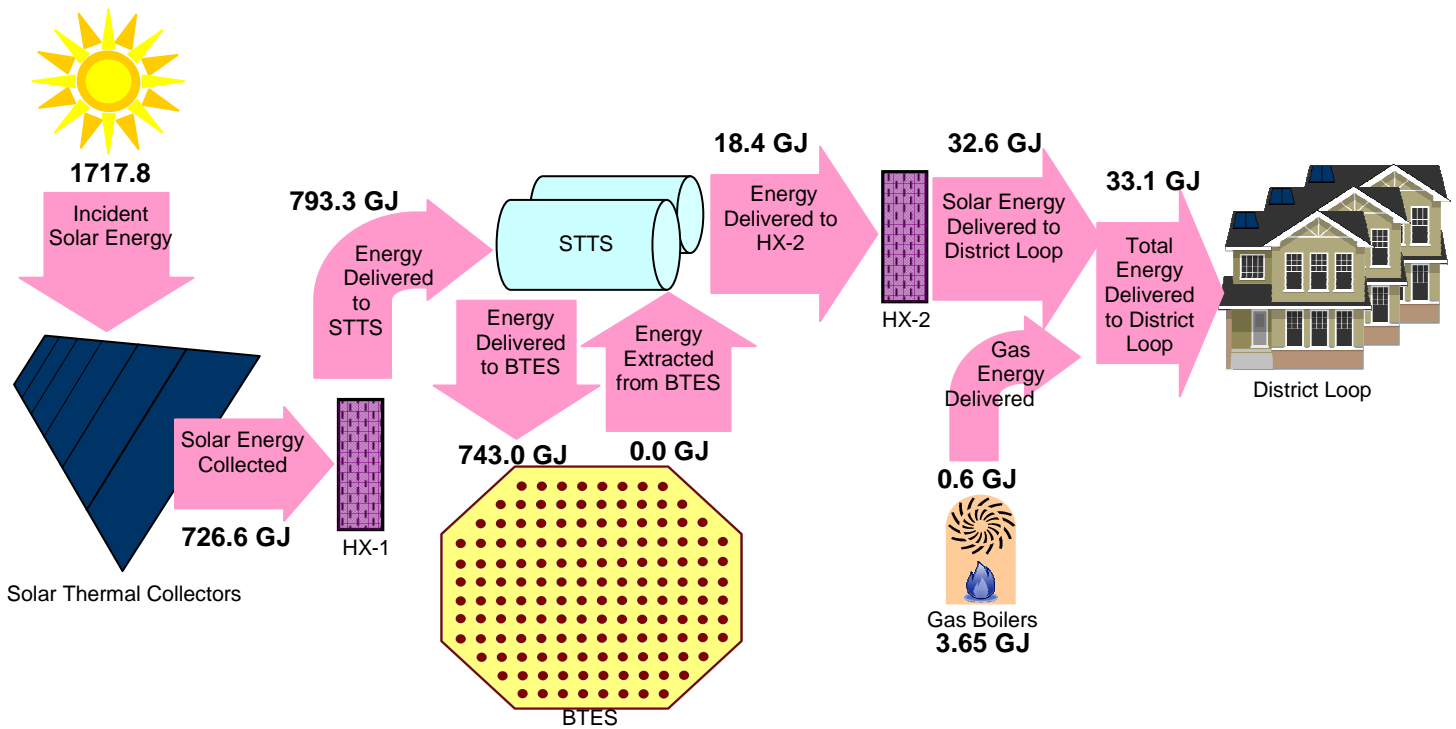
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for July 2007

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 July 2007</b>		
Description	This Month	Since July 1, 2007
Total Incident Solar Energy for the month	1717.8 GJ	1717.8 GJ
Total Solar Energy Collected for the month <sup>1</sup>	726.6 GJ	726.6 GJ
Total Solar Energy Delivered to STTS for the month	793.3 GJ	793.3 GJ
Total Energy Delivered to BTES for the month	743.0. GJ	743.0. GJ
Total Energy Extracted from BTES for the month	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	18.4 GJ	18.4 GJ
Total Solar Energy Delivered to District Loop for the month	32.6 GJ	32.6 GJ
Natural Gas Energy Used	3.65 GJ	3.65 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	0.6 GJ	0.6 GJ
Total Energy Delivered to District Loop for the month	33.1 GJ	33.1 GJ
Average Solar Collector Efficiency for the month	42.3 %	42.3%
Average Efficiency of HX-1 for the month	109%	109%
Average Efficiency of HX-2 for the month	177%	177%
Average BTES core temperature for the month	42.48 °C	42.48 °C
Average BTES core temperature at start of month	44.24 °C	44.24 °C
Average BTES core temperature at end of month	43.71 °C	43.71 °C
Change in average BTES core Temperature during the month	-0.53 °C	-0.53 °C
Electrical energy used for the month	19.97 GJ	19.97 GJ
PV energy generated for the month	N/A GJ	N/A GJ
Net change in energy stored in STTS during the month	- 5.57 GJ	- 5.57 GJ
Solar Fraction	98.5%	98.5%

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