

## Energy Report Summary for May 2012

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



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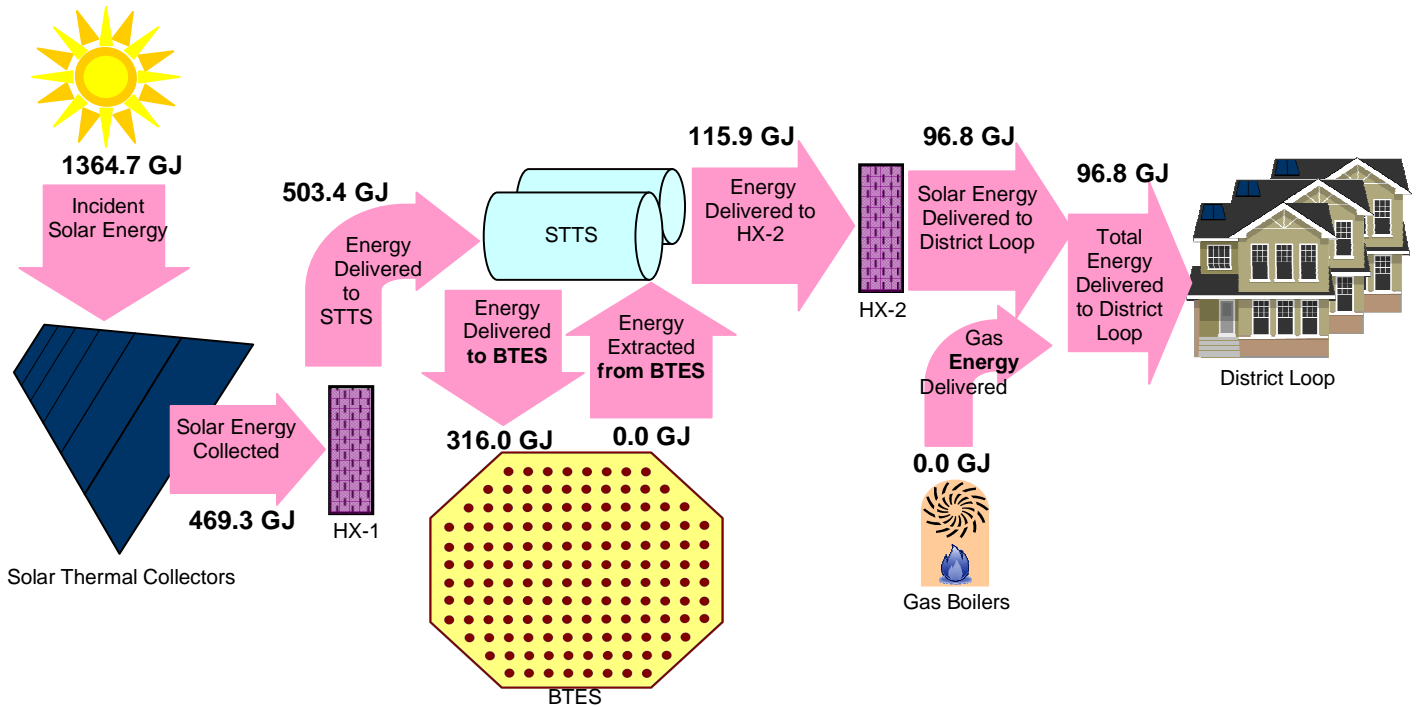
April 2013  
Document Version 1.0  
CM002171

**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for May 2012

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 May 2012</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2011</b>
Total Incident Solar Energy	1364.7 GJ	11799.9 GJ
Total Solar Energy Collected	469.3 GJ	4043.0 GJ
Total Solar Energy Delivered to STTS	503.4 GJ	4173.6 GJ
Total Energy Delivered to BTES	316.0 GJ	2211.1 GJ
Total Energy Extracted from BTES	0.0 GJ	902.6 GJ
Total Energy Delivered from STTS to HX-2	115.9 GJ	2361.1 GJ
Total Solar Energy Delivered to District Loop	96.8 GJ	2012.5 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	67.6 GJ
Total Energy Delivered to District Loop	96.8 GJ	2083.2 GJ
Average Solar Collector Efficiency	34 %	34 %
Average Efficiency of HX-1	107 %	103 %
Average Efficiency of HX-2	84 %	85 %
Average BTES core temperature	53.6 °C	57.0 °C
PV energy generated	1.4927 GJ	11.1 GJ
Net change in energy stored in STTS	8.32 GJ	-9.6 GJ
Solar Fraction	100.0 %	96.6 %