

## Energy Report Summary for March 2012

Prepared for:



Natural Resources  
Canada

Ressources Naturelles  
Canada

Canada

Prepared by:



*Science Applications International Corporation  
(SAIC Canada)*

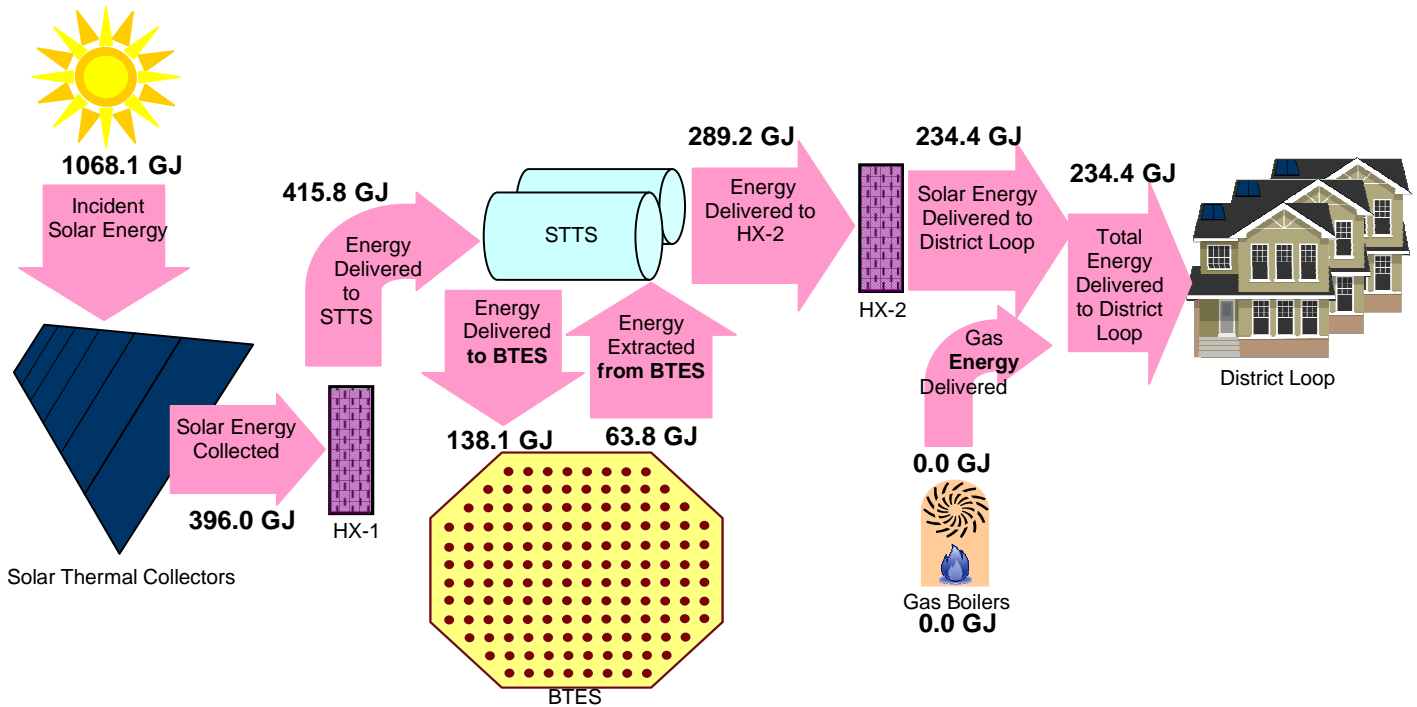
April 3, 2013  
Document Version 1.0  
CM002171

**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for March 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 March 2012</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2011</b>
Total Incident Solar Energy	1068.1 GJ	9246.9 GJ
Total Solar Energy Collected	396.0 GJ	3146.5 GJ
Total Solar Energy Delivered to STTS	415.8 GJ	3215.9 GJ
Total Energy Delivered to BTES	138.1 GJ	1674.0 GJ
Total Energy Extracted from BTES	63.8 GJ	902.6 GJ
Total Energy Delivered from STTS to HX-2	289.2 GJ	2062.5 GJ
Total Solar Energy Delivered to District Loop	234.4 GJ	1777.4 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	67.3 GJ
Total Energy Delivered to District Loop	234.4 GJ	1847.8 GJ
Average Solar Collector Efficiency	37 %	34 %
Average Efficiency of HX-1	105 %	102 %
Average Efficiency of HX-2	81 %	86 %
Average BTES core temperature	49.5 °C	58.1 °C
PV energy generated	1.0804 GJ	8.3 GJ
Net change in energy stored in STTS	7.97 GJ	-10.9 GJ
Solar Fraction	100.0 %	96.2 %