

## Energy Report Summary for August 2011

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



*Science Applications International Corporation  
(SAIC Canada)*

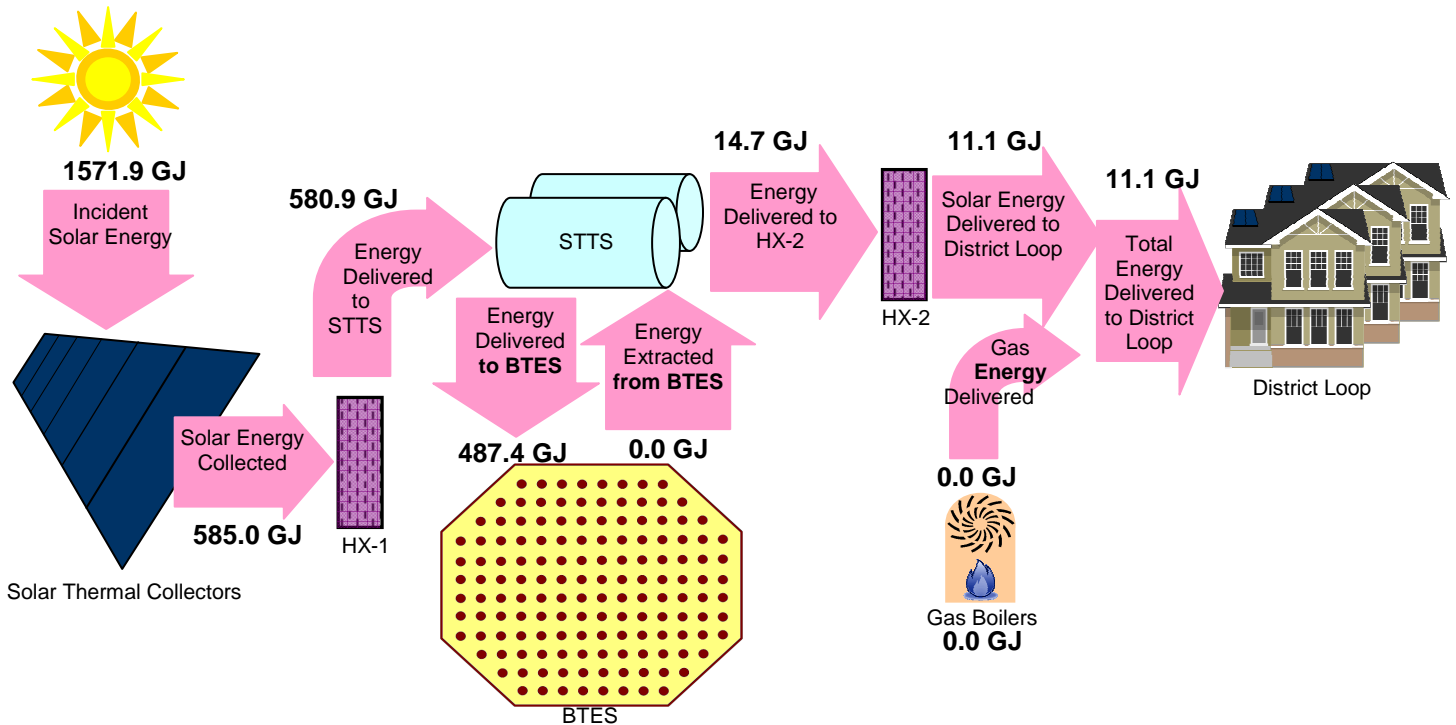
September 27, 2011  
Document Version 1.0  
CM002171

**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for August 2011

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 August 2011</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2011</b>
Total Incident Solar Energy	1571.9 GJ	3233.3 GJ
Total Solar Energy Collected	585.0 GJ	1198.1 GJ
Total Solar Energy Delivered to STTS	580.9 GJ	1184.3 GJ
Total Energy Delivered to BTES	487.4 GJ	1033.7 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	14.7 GJ	28.6 GJ
Total Solar Energy Delivered to District Loop	11.1 GJ	21.9 GJ
Natural Gas Energy Used	0.0 GJ	0.0 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	0.0 GJ
Total Energy Delivered to District Loop	11.1 GJ	21.9 GJ
Average Solar Collector Efficiency	37 %	37 %
Average Efficiency of HX-1	99 %	99 %
Average Efficiency of HX-2	76 %	77 %
Average BTES core temperature	68.6 °C	63.9 °C
Electrical energy used	0.0 GJ	3.1 <sup>1</sup> GJ
PV energy generated	1.6619 GJ	3.5 GJ
Net change in energy stored in STTS	-23.22 GJ	-14.8 GJ
Solar Fraction	100.0 %	100.0 %

<sup>1</sup> The electrical energy used values are based on data from EPM-1 which has produced unreliable and incomplete data. The numbers given do not represent actual electrical consumption.