

## Energy Report Summary for November 2011

Prepared for:



Natural Resources Canada  
Ressources Naturelles Canada

Canada

Prepared by:



*Science Applications International Corporation  
(SAIC Canada)*

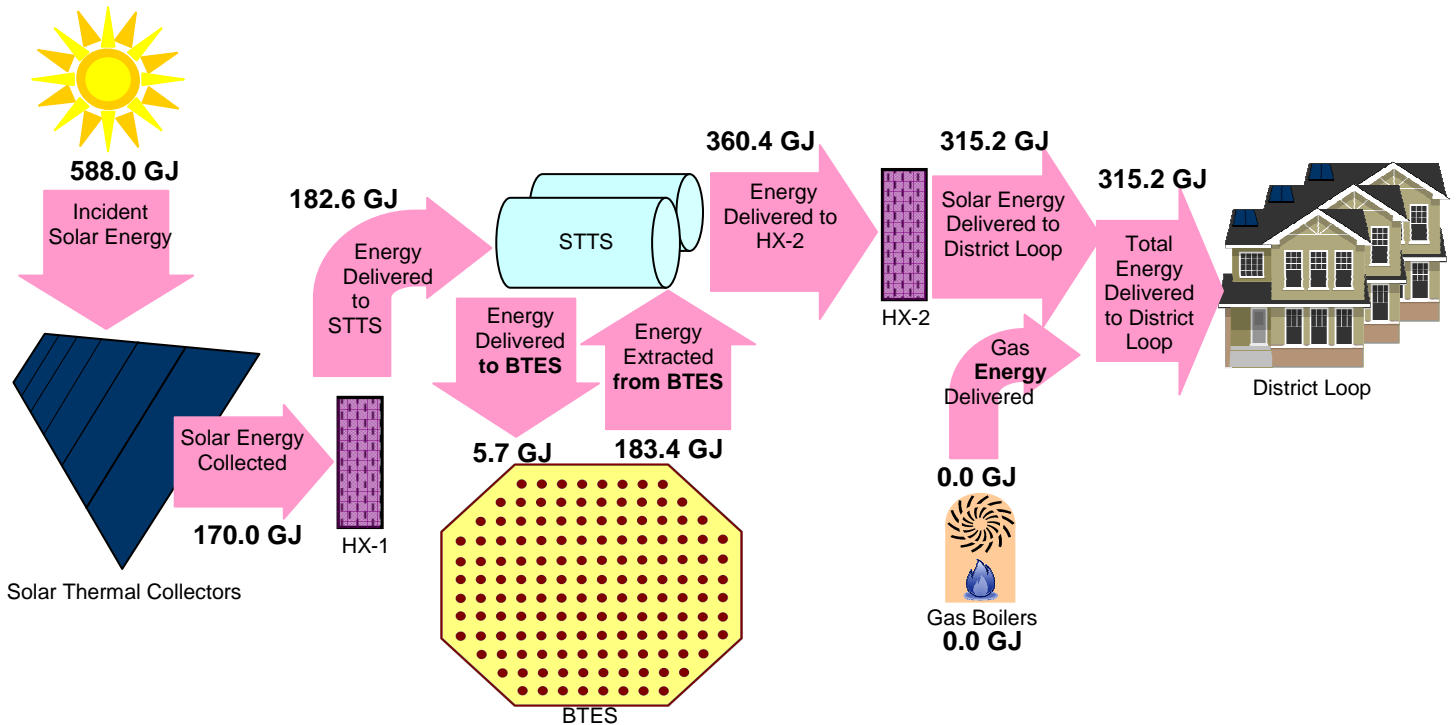
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for November 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 November 2011</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2011</b>
Total Incident Solar Energy	588.0 GJ	6223.5 GJ
Total Solar Energy Collected	170.0 GJ	2175.5 GJ
Total Solar Energy Delivered to STTS	182.6 GJ	2184.0 GJ
Total Energy Delivered to BTES	5.7 GJ	1505.9 GJ
Total Energy Extracted from BTES	183.4 GJ	183.4 GJ
Total Energy Delivered from STTS to HX-2	360.4 GJ	599.4 GJ
Total Solar Energy Delivered to District Loop	315.2 GJ	502.2 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	315.2 GJ	502.2 GJ
Average Solar Collector Efficiency	29 %	35 %
Average Efficiency of HX-1	107 %	100 %
Average Efficiency of HX-2	87 %	84 %
Average BTES core temperature	60.5 °C	63.1 °C
Electrical energy used	0.0 GJ	3.1 <sup>1</sup> GJ
PV energy generated	0.5393 GJ	6.3 GJ
Net change in energy stored in STTS	-21.29 GJ	-27.7 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.