

## Energy Report Summary for May 2011

Prepared for:



Natural Resources Canada  
Ressources Naturelles Canada

Canada

Prepared by:



*Science Applications International Corporation  
(SAIC Canada)*

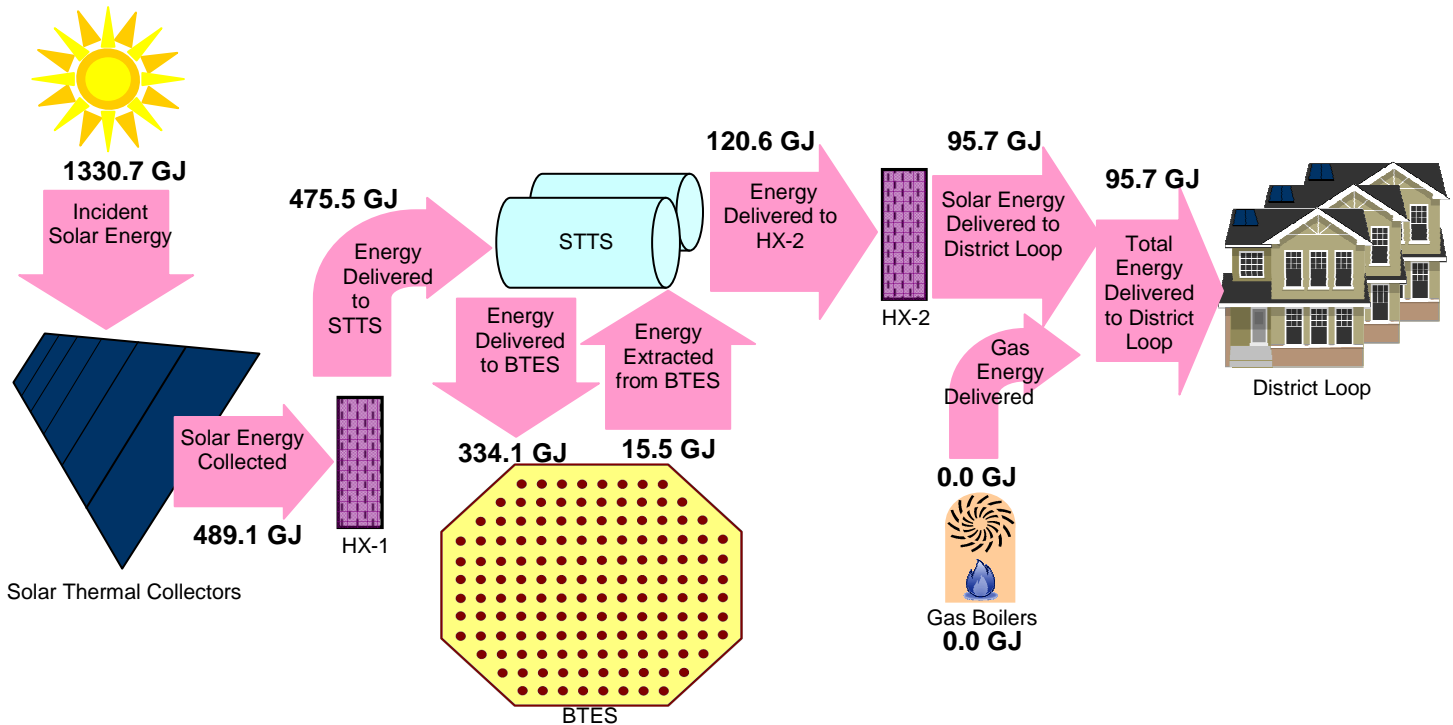
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for May 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 May 2011</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2010</b>
Total Incident Solar Energy	1330.7 GJ	11213.5 GJ
Total Solar Energy Collected	489.1 GJ	3626.8 GJ
Total Solar Energy Delivered to STTS	475.5 GJ	3505.5 GJ
Total Energy Delivered to BTES	334.1 GJ	1913.3 GJ
Total Energy Extracted from BTES	15.5 GJ	1218.8 GJ
Total Energy Delivered from STTS to HX-2	120.6 GJ	2709.9 GJ
Total Solar Energy Delivered to District Loop	95.7 GJ	2425.4 GJ
Natural Gas Energy Used	0.0 GJ	436.1 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	403.3 GJ
Total Energy Delivered to District Loop	95.7 GJ	2828.8 GJ
Average Solar Collector Efficiency	37 %	32 %
Average Efficiency of HX-1	97 %	97 %
Average Efficiency of HX-2	79 %	90 %
Average BTES core temperature	47.4 °C	52.5 °C
Electrical energy used	8.8 GJ	120.0 GJ
PV energy generated	1.4686 GJ	10.4 GJ
Net change in energy stored in STTS	18.63 GJ	-8.6 GJ
Solar Fraction	100.0 %	85.7 %