



## Energy Report Summary for September 2009

Prepared for:



Natural Resources  
Canada

Ressources Naturelles  
Canada

Canada

Prepared by:



*Science Applications International Corporation  
(SAIC Canada)*

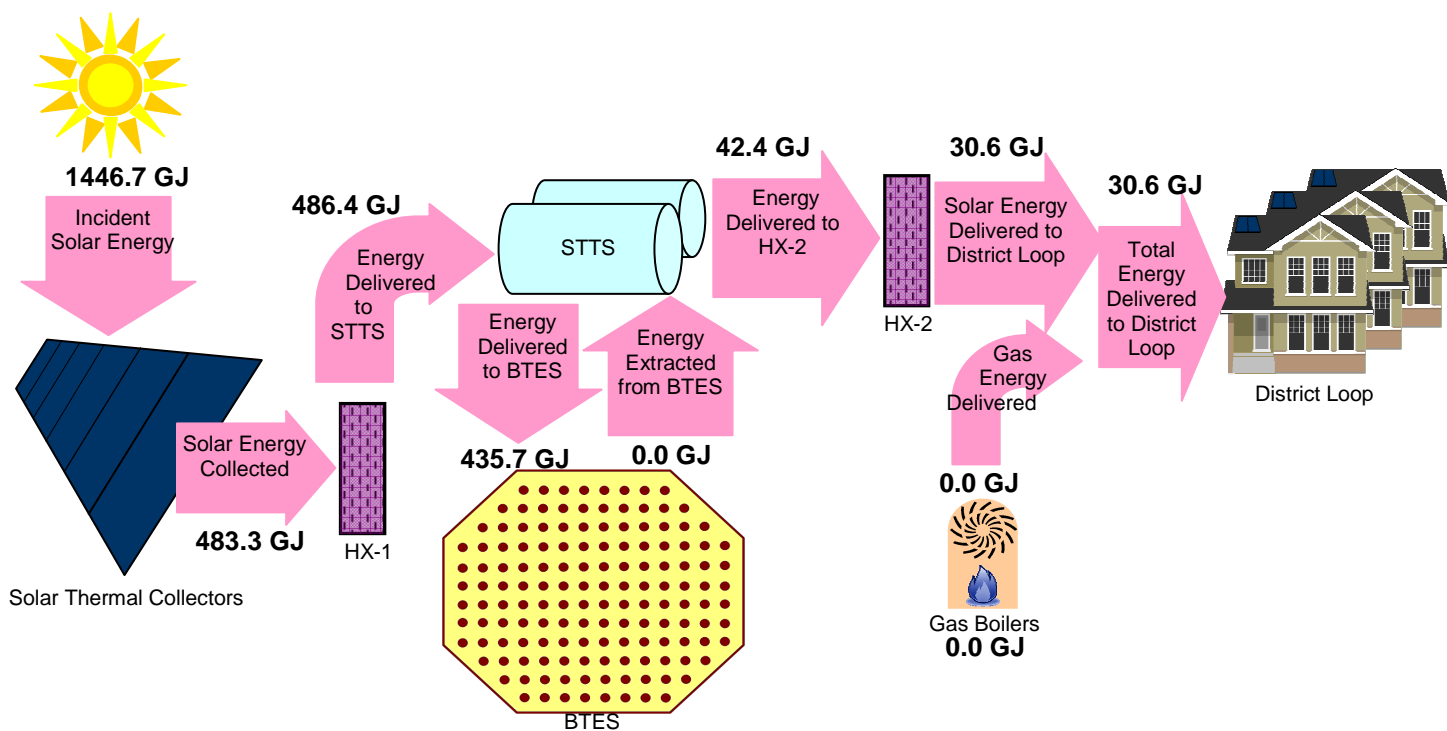
October 14, 2009  
Document Version 1.0  
CM002171

**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for September 2009

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 1 Summary for August 2009</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2008</b>
Total Incident Solar Energy	1446.7 GJ	4321.1 GJ
Total Solar Energy Collected	483.3 GJ	1490.9 GJ
Total Solar Energy Delivered to STTS	486.4 GJ	1499.2 GJ
Total Energy Delivered to BTES	435.7 GJ	1339.6 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	42.4 GJ	104.9 GJ
Total Solar Energy Delivered to District Loop	30.6 GJ	79.6 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	30.6 GJ	79.6 GJ
Average Solar Collector Efficiency	33.4%	34.5%
Average Efficiency of HX-1	100.6%	100.6%
Average Efficiency of HX-2	72.1%	75.9%
Average BTES core temperature	38.4 °C	37.8 °C
Electrical energy used	0.6 GJ	0.6 GJ
PV energy generated	1.3827 GJ	4.5 GJ
Net change in energy stored in STTS	-14.3 GJ	-3.4 GJ
Solar Fraction	100.0%	100.0%