



## Energy Report Summary for January 2009

Prepared for:



Natural Resources  
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Prepared by:



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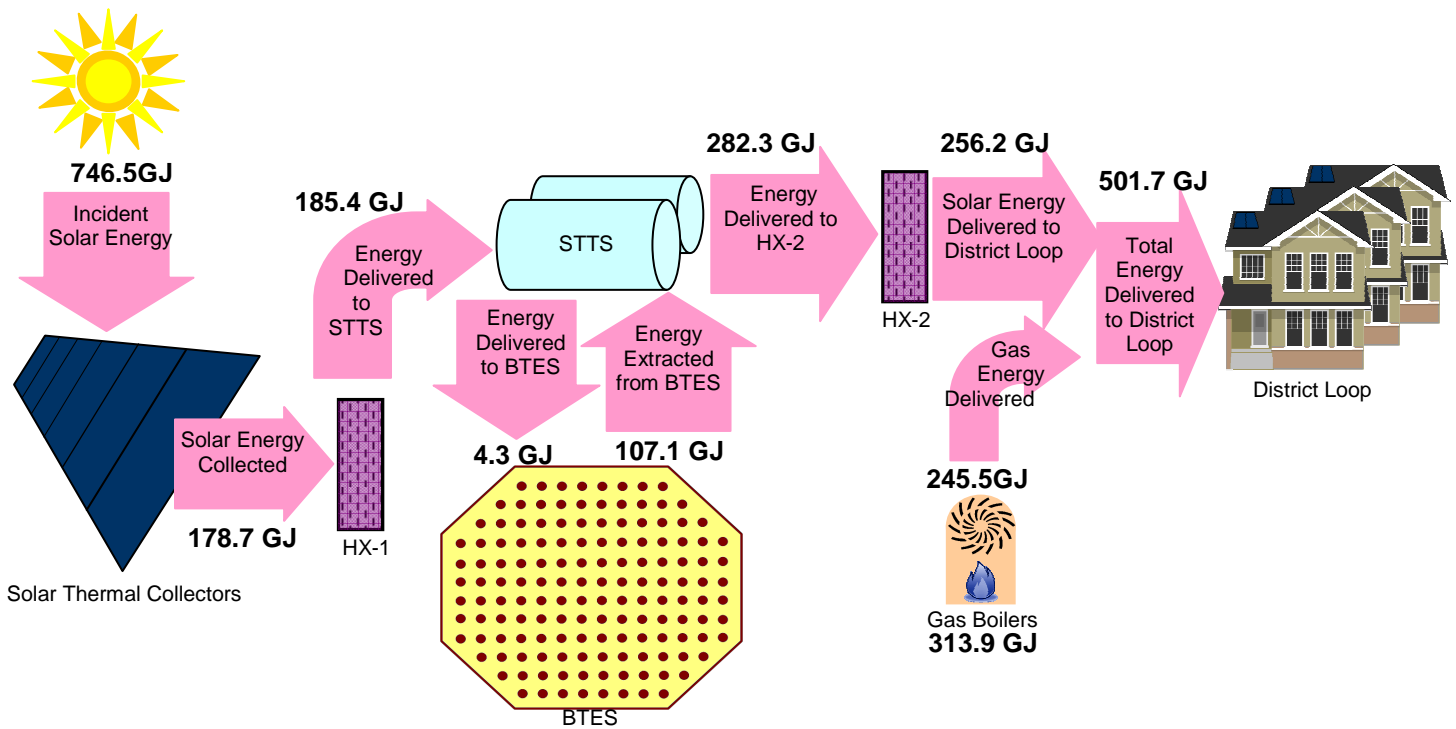
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for January 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 January 2009</b>		
<b>Description</b>	<b>This Month</b>	<b>Since April 1, 2008</b>
Total Incident Solar Energy	746.5 GJ	11085.3 GJ
Total Solar Energy Collected fo	178.7 GJ	3637.4 GJ
Total Solar Energy Delivered to STTS	185.4 GJ	3742.7 GJ
Total Energy Delivered to BTES	4.3 GJ	2621.4 GJ
Total Energy Extracted from BTES	107.1 GJ	509.8 GJ
Total Energy Delivered from STTS to HX-2	282.3 GJ	1590.8 GJ
Total Solar Energy Delivered to District Loop	256.2GJ	1438.6 GJ
Natural Gas Energy Used	313.9 GJ	771.6 GJ
Boiler Thermal Energy Delivered to the District Loop	245.5 GJ	693.1 GJ
Total Energy Delivered to District Loop	501.7 GJ	2131.7 GJ
Average Solar Collector Efficiency	23.9%	32.8%
Average Efficiency of HX-1	103.7%	102.9%
Average Efficiency of HX-2	90.7%	90.4%
Average BTES core temperature	38.7°C	48.3 °C
Electrical energy used	17.2 GJ	69.8 GJ
PV energy generated	0.4752 GJ	11.1 GJ
Net change in energy stored in STTS	2.31 GJ	3.0 GJ
Solar Fraction	51.1%	67.5%