

## Energy Report Summary for October 2011

Prepared for:



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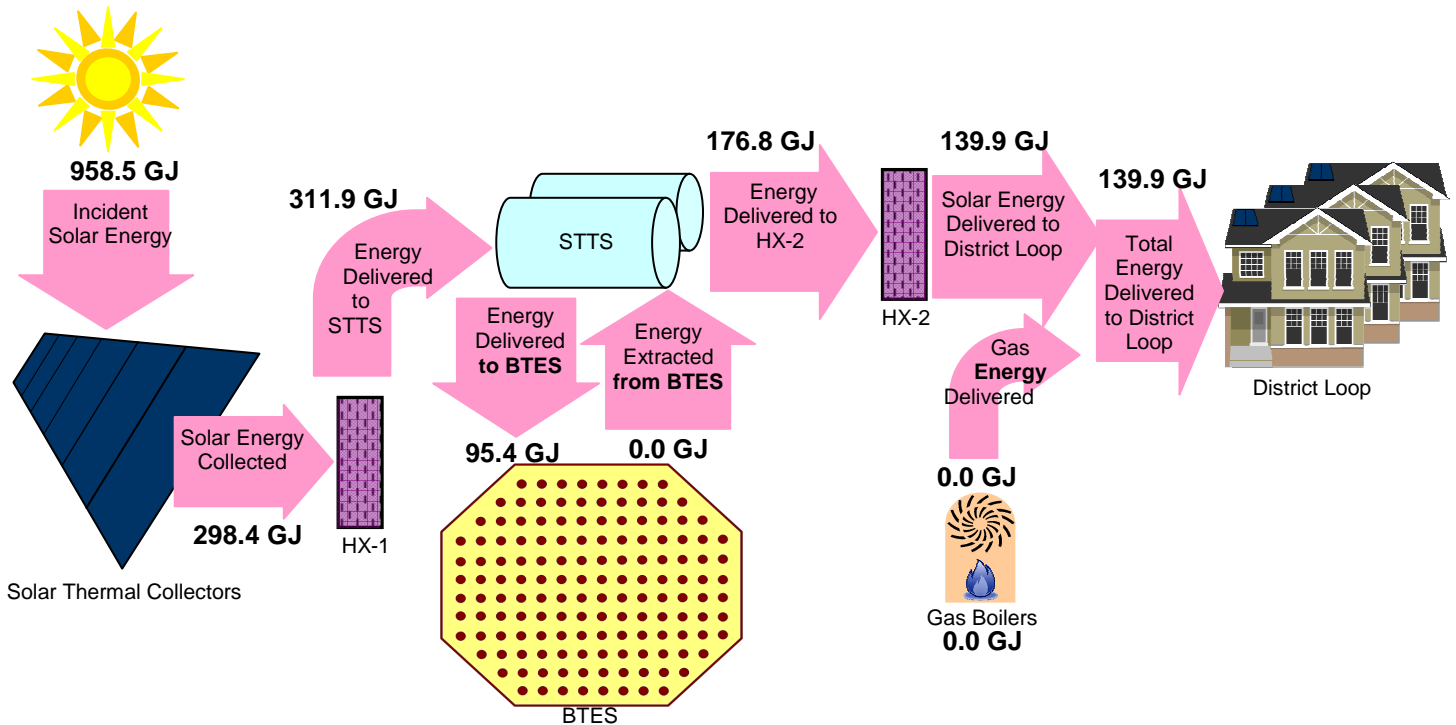
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for October 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 October 2011</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2011</b>
Total Incident Solar Energy	958.5 GJ	5635.5 GJ
Total Solar Energy Collected	298.4 GJ	2005.5 GJ
Total Solar Energy Delivered to STTS	311.9 GJ	2001.4 GJ
Total Energy Delivered to BTES	95.4 GJ	1500.2 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	176.8 GJ	239.0 GJ
Total Solar Energy Delivered to District Loop	139.9 GJ	187.0 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	139.9 GJ	187.0 GJ
Average Solar Collector Efficiency	31 %	36 %
Average Efficiency of HX-1	105 %	100 %
Average Efficiency of HX-2	79 %	78 %
Average BTES core temperature	63.0 °C	63.7 °C
Electrical energy used	0.0 GJ	3.1 <sup>1</sup> GJ
PV energy generated	0.9414 GJ	5.8 GJ
Net change in energy stored in STTS	-6.98 GJ	-6.4 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.