

## Energy Report Summary for November 2010

Prepared for:



Natural Resources Canada  
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Canada

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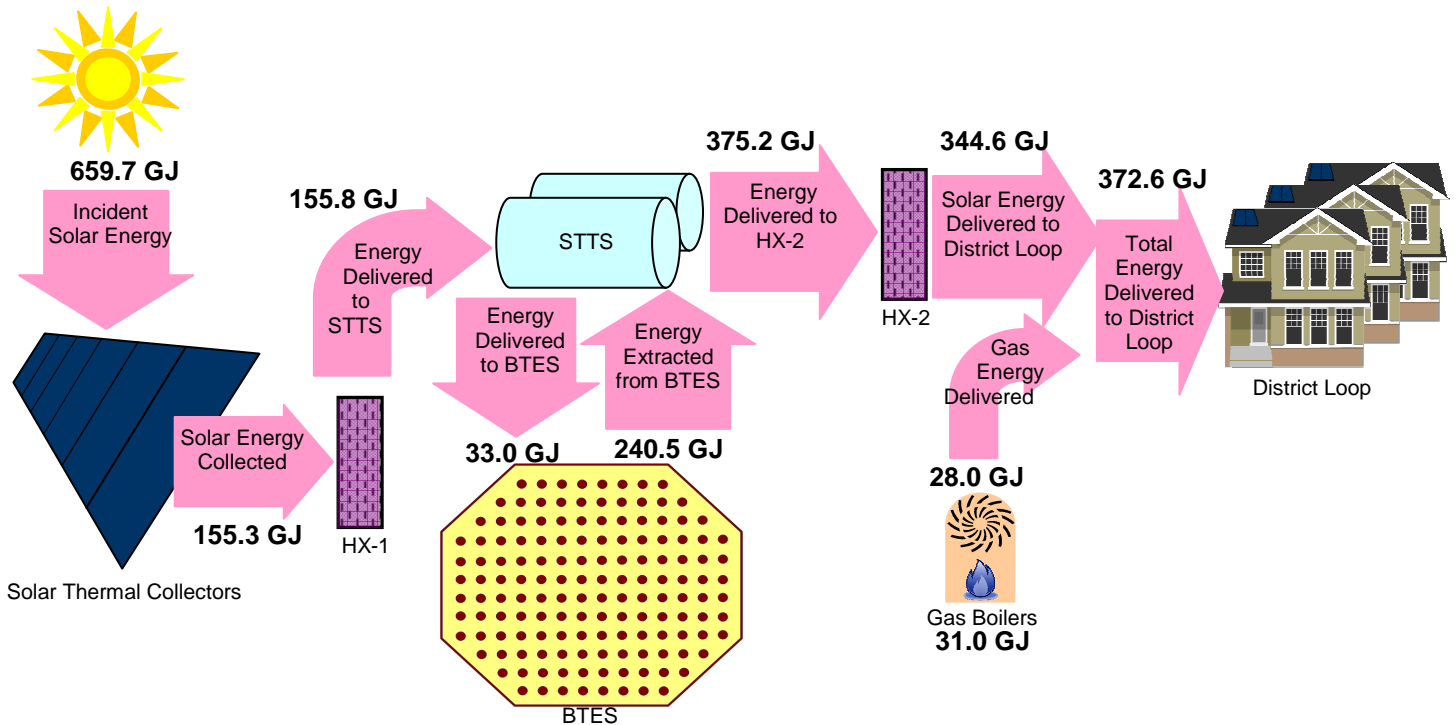
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for September 2010

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 September 2010</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2010</b>
Total Incident Solar Energy	659.7 GJ	5443.1 GJ
Total Solar Energy Collected	155.3 GJ	1781.8 GJ
Total Solar Energy Delivered to STTS	155.8 GJ	1708.1 GJ
Total Energy Delivered to BTES	33.0 GJ	1241.2 GJ
Total Energy Extracted from BTES	240.5 GJ	308.2 GJ
Total Energy Delivered from STTS to HX-2	375.2 GJ	665.7 GJ
Total Solar Energy Delivered to District Loop	344.6 GJ	593.3 GJ
Natural Gas Energy Used	31.0 GJ	31.0 GJ
Boiler Thermal Energy Delivered to the District Loop	28.0 GJ	28.0 GJ
Total Energy Delivered to District Loop	372.6 GJ	621.3 GJ
Average Solar Collector Efficiency	17 %	33 %
Average Efficiency of HX-1	100 %	96 %
Average Efficiency of HX-2	92 %	89 %
Average BTES core temperature	59.4 °C	59.6 °C
Electrical energy used	8.6 GJ	33.1 GJ
PV energy generated	0.4586 GJ	5.4 GJ
Net change in energy stored in STTS	-9.37 GJ	-31.4 GJ
Solar Fraction	92 %	95 %