

## Energy Report Summary for April 2010

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



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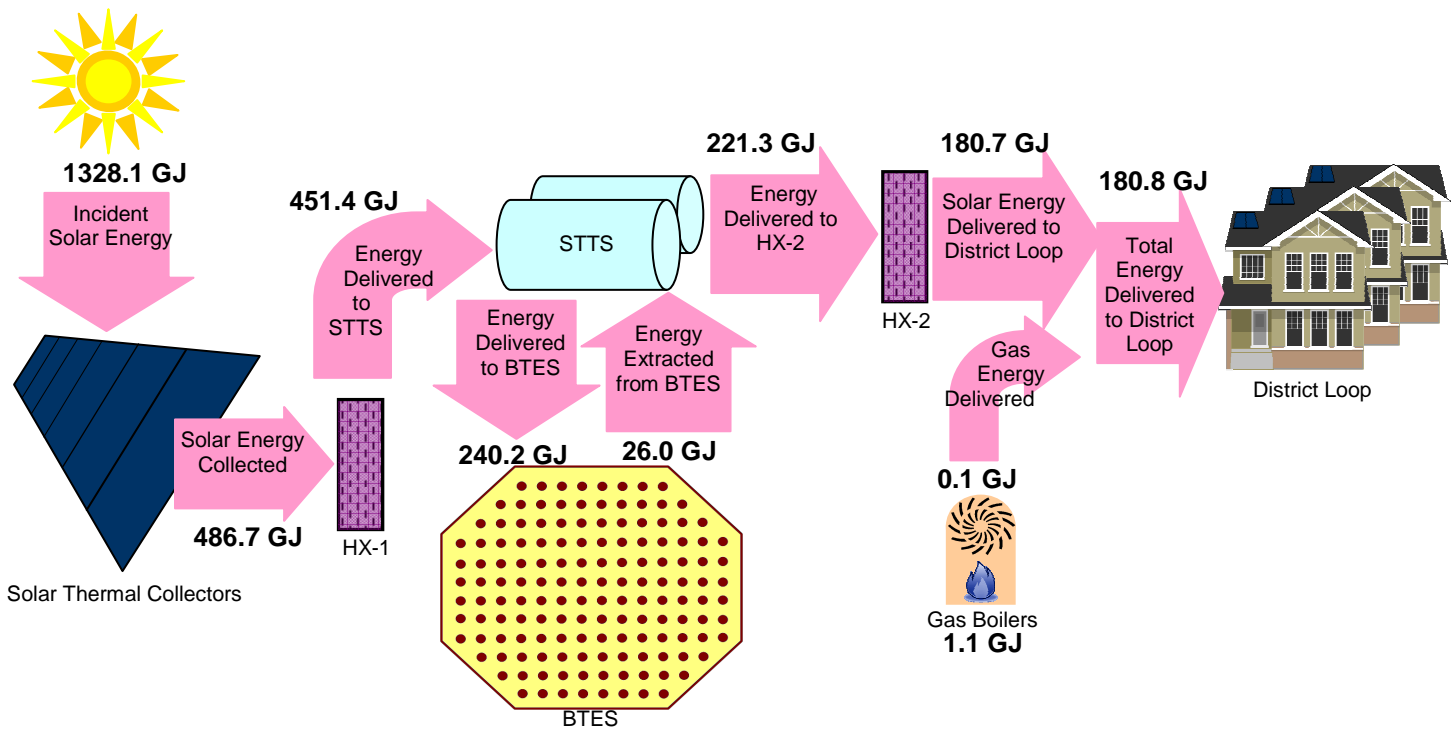
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for April 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 April 2010</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2009</b>
Total Incident Solar Energy	1328.1 GJ	10116.7 GJ
Total Solar Energy Collected	486.7 GJ	3363.1 GJ
Total Solar Energy Delivered to STTS	451.4 GJ	3195.4 GJ
Total Energy Delivered to BTES	240.2 GJ	1894.2 GJ
Total Energy Extracted from BTES	26.0 GJ	827.4 GJ
Total Energy Delivered from STTS to HX-2	221.3 GJ	2327.1 GJ
Total Solar Energy Delivered to District Loop	180.7 GJ	1837.4 GJ
Natural Gas Energy Used	1.1 GJ	543.6 GJ
Boiler Thermal Energy Delivered to the District Loop	0.1 GJ	519.5 GJ
Total Energy Delivered to District Loop	180.8 GJ	2356.8 GJ
Average Solar Collector Efficiency	36.6 %	33.2 %
Average Efficiency of HX-1	92.7 %	95.0 %
Average Efficiency of HX-2	81.7 %	79.0 %
Average BTES core temperature	52.9 °C	42.0 °C
Electrical energy used	5.5 GJ	101.2 GJ
PV energy generated	1.39 GJ	10.0 GJ
Net change in energy stored in STTS	15.04 GJ	-9.1 GJ
Solar Fraction	99.9 %	78.0 %