



## Energy Report Summary for July 2014

Prepared for:



Natural Resources  
Canada

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Canada

Canada

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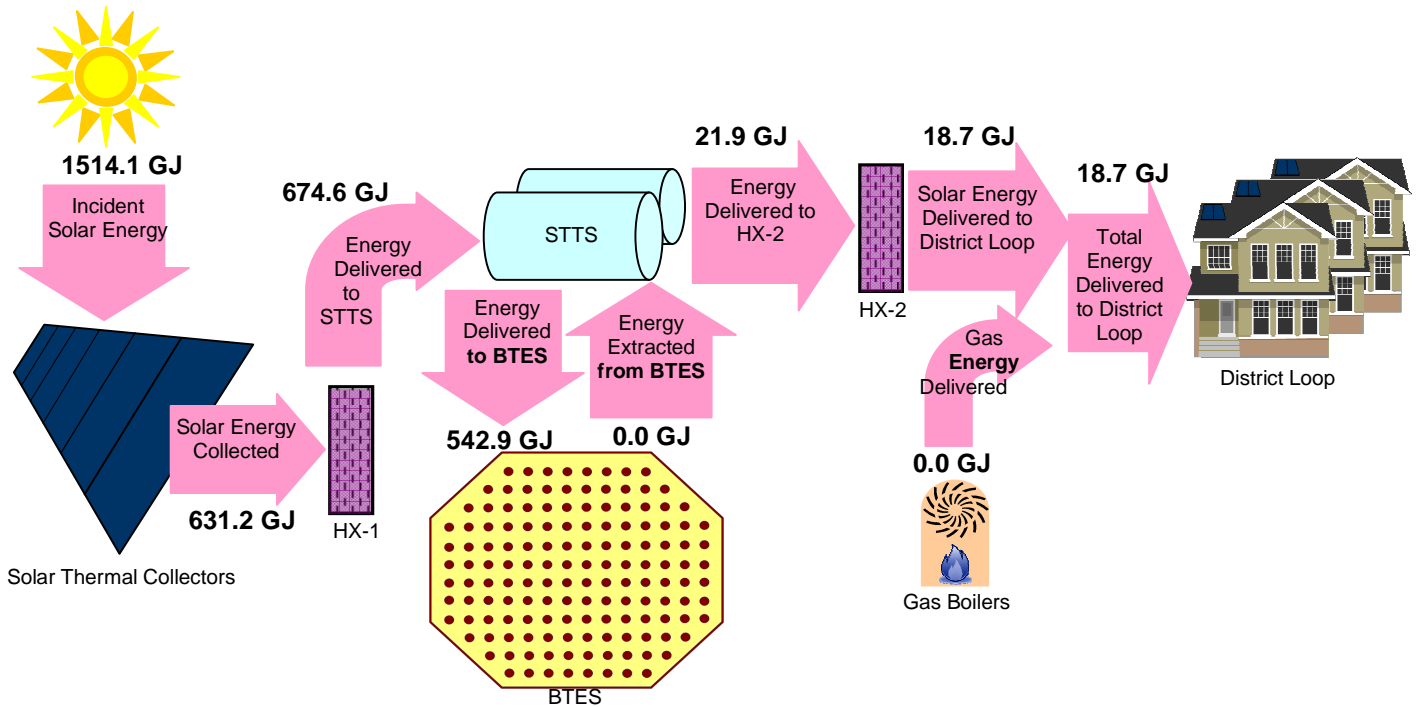
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for July 2014

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 July 2014</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2014</b>
Total Incident Solar Energy	1514.1 GJ	1514.1 GJ
Total Solar Energy Collected	631.2 GJ	631.2 GJ
Total Solar Energy Delivered to STTS	674.6 GJ	674.6 GJ
Total Energy Delivered to BTES	542.9 GJ	542.9 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	21.9 GJ	21.9 GJ
Total Solar Energy Delivered to District Loop	18.7 GJ	18.7 GJ
Natural Gas Energy Used	0.0 GJ <sup>1</sup>	0.0 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	0.0 GJ
Total Energy Delivered to District Loop	18.7 GJ	18.7 GJ
Average Solar Collector Efficiency	42 %	42 %
Average Efficiency of HX-1	107 %	107 %
Average Efficiency of HX-2	85 %	85 %
Average BTES core temperature	58.0 °C	58.0 °C
Electrical energy used	9.4 GJ <sup>2</sup>	9.4 GJ <sup>3</sup>
PV energy generated	11.8371 GJ	11.8371 GJ
Net change in energy stored in STTS	109.8 GJ	109.8 GJ
Solar Fraction	100.0 %	100.0 %

<sup>1</sup> Gas consumption is reported during monthly maintenance inspections which may not coincide with the reporting period. The reported gas consumption is for the period between June 28, and August 1 2014

<sup>2</sup> The electrical energy consumption is reported during monthly maintenance inspections which may not coincide with the reporting period. The reported gas consumption is for the period between June 28, and September 19, 2014.

<sup>3</sup> Since June 26, 2014.