



## Energy Report Summary for July 2015

Prepared for:



Natural Resources  
Canada

Ressources Naturelles  
Canada

Canada

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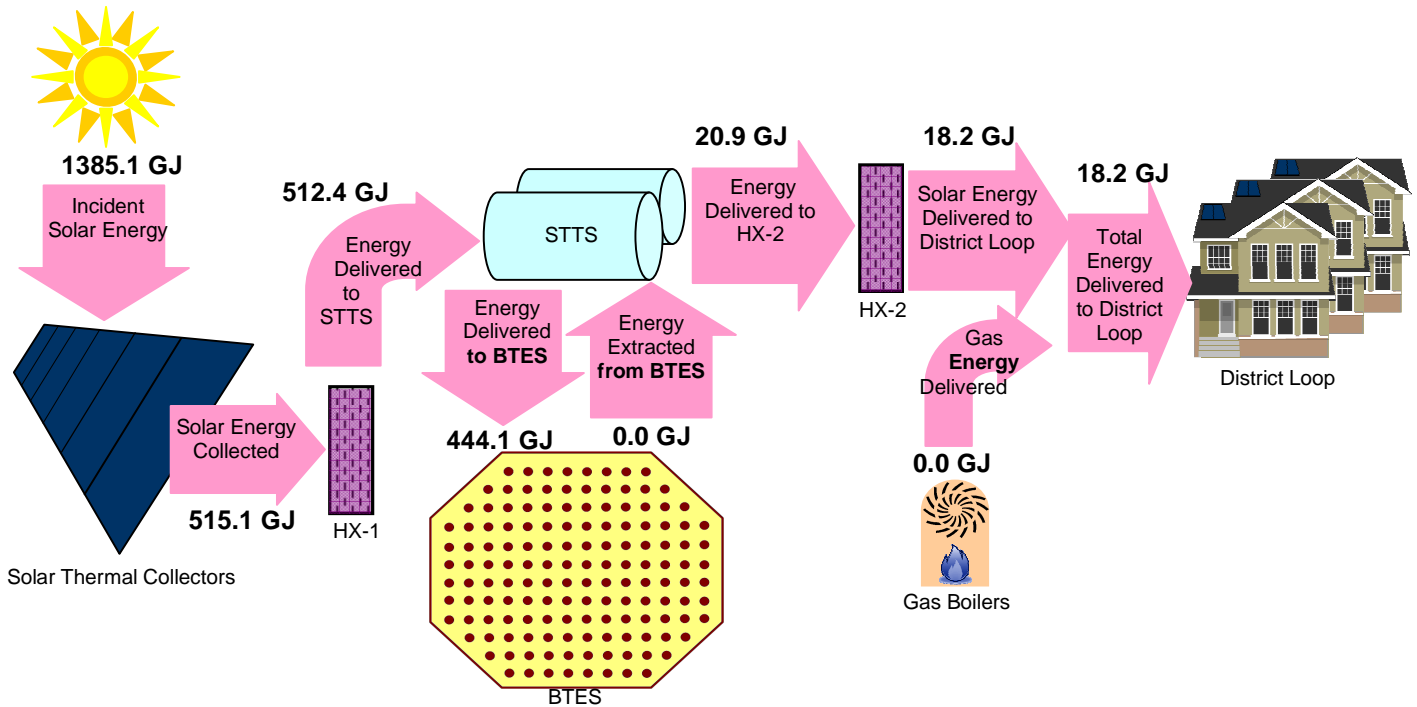
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for July 2015

This document summarizes the energy generated and used within the Drake Landing Solar Community at Okotoks Alberta.

Additional Information can be found here: <http://www.dlsc.ca>



System Energy Diagram

<b>Table 0-1 Summary for July 2015</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2015</b>
Total Incident Solar Energy	1385.1 GJ	1385.1 GJ
Total Solar Energy Collected	515.1 GJ	515.1 GJ
Total Solar Energy Delivered to STTS	512.4 GJ	512.4 GJ
Total Energy Delivered to BTES	444.1 GJ	444.1 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	20.9 GJ	20.9 GJ
Total Solar Energy Delivered to District Loop	18.2 GJ	18.2 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	18.2 GJ	18.2 GJ
Average Solar Collector Efficiency	37 %	37 %
Average Efficiency of HX-1	99 %	99 %
Average Efficiency of HX-2	87 %	87 %
Average BTES core temperature	56.3 °C	56.3 °C
Electrical energy used	2.7 GJ <sup>2</sup>	2.7 GJ <sup>3</sup>
PV energy generated	11.1683 GJ	11.2 GJ
Net change in energy stored in STTS	47.4 GJ	47.4 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 30, and July 27, 2015

<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 30, and July 27, 2015.

<sup>3</sup> Since June 30, 2015.