



## Energy Report Summary for December 2015

Prepared for:



Natural Resources  
Canada

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Canada

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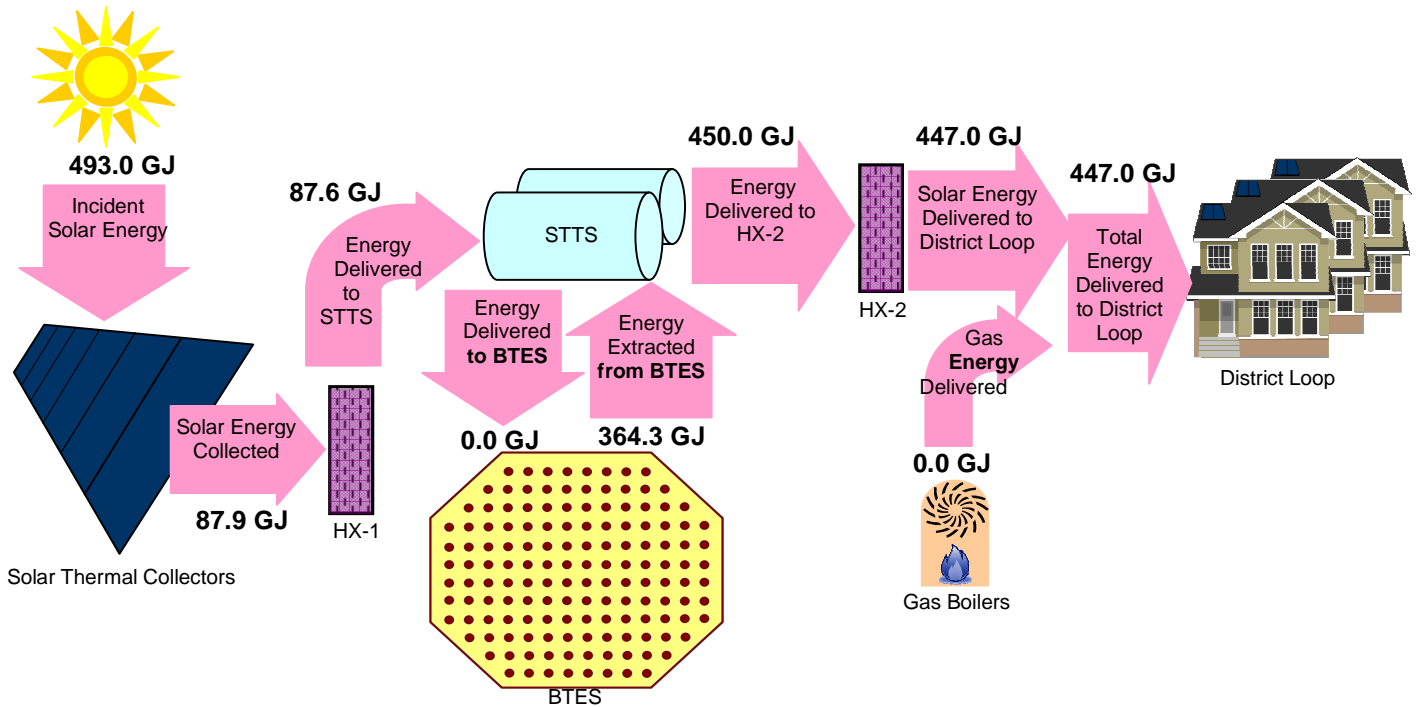
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for December 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 December 2015</b>		
<b>Description</b>	<b>This Month</b>	<b>Since July 1, 2015</b>
Total Incident Solar Energy	493.0 GJ	6117.8 GJ
Total Solar Energy Collected	87.9 GJ	2043.5 GJ
Total Solar Energy Delivered to STTS	87.6 GJ	2045.4 GJ
Total Energy Delivered to BTES	0.0 GJ	1336.4 GJ
Total Energy Extracted from BTES	364.3 GJ	440.7 GJ
Total Energy Delivered from STTS to HX-2	450.0 GJ	1033.5 GJ
Total Solar Energy Delivered to District Loop	447.0 GJ	991.5 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	447.0 GJ	991.5 GJ
Average Solar Collector Efficiency	18 %	33 %
Average Efficiency of HX-1	100 %	100 %
Average Efficiency of HX-2	99 %	96 %
Average BTES core temperature	- °C	- °C
Electrical energy used	10.3901 GJ	40.4 GJ <sup>2</sup>
PV energy generated	0.7416 GJ	34.6 GJ
Net change in energy stored in STTS	1.9 GJ	116.2 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 December 1, 2015, and January 7, 2016

<sup>2</sup> Since June 30, 2015.