

## Energy Report Summary for June 2015

Prepared for:



Natural Resources  
Canada

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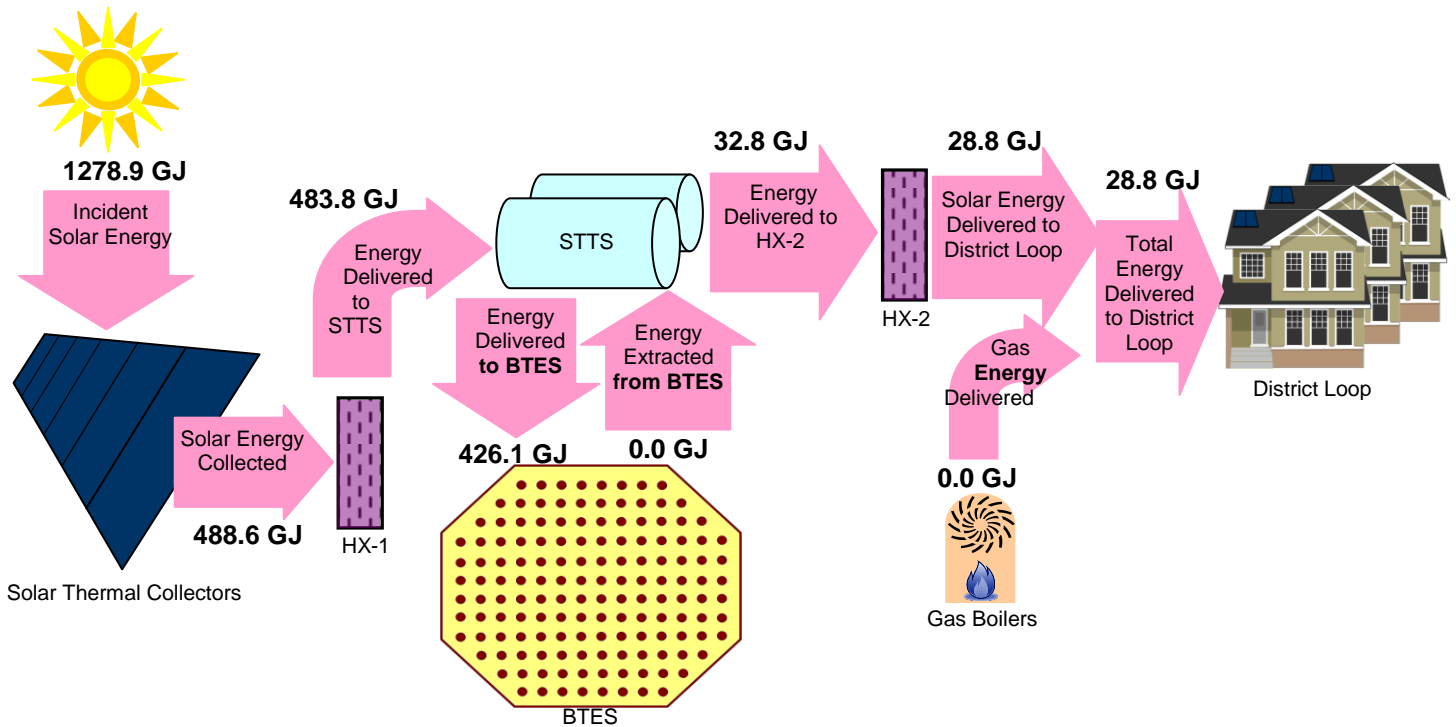
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**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for June 2015

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

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



System Energy Diagram

Table 0-1 Summary for June 2015		
Description	This Month	Since July 1, 2014
Total Incident Solar Energy	1278.9 GJ	12399.7 GJ
Total Solar Energy Collected	488.6 GJ	4339.6 GJ
Total Solar Energy Delivered to STTS	483.8 GJ	4346.3 GJ
Total Energy Delivered to BTES	426.1 GJ	2520.4 GJ
Total Energy Extracted from BTES	0.0 GJ	1123.1 GJ
Total Energy Delivered from STTS to HX-2	32.8 GJ	2475.1 GJ
Total Solar Energy Delivered to District Loop	28.8 GJ	2394.0 GJ
Natural Gas Energy Used	1.0 GJ <sup>1</sup>	77.5 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	107.2 GJ
Total Energy Delivered to District Loop	28.8 GJ	2501.0 GJ
Average Solar Collector Efficiency	38 %	35 %
Average Efficiency of HX-1	99 %	100 %
Average Efficiency of HX-2	88 %	97 %
Average BTES core temperature	51.9 °C	51.8 °C
Electrical energy used	3.4 GJ <sup>2</sup>	70.4 GJ <sup>3</sup>
PV energy generated	10.7616 GJ	73.1 GJ
Net change in energy stored in STTS	24.9 GJ	537.9 GJ
Solar Fraction	100.0 %	95.7 %

<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 May 27, and June 15, 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 May 27, and June 15, 2015.

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