



Energy Report Summary for May 2014

Prepared for:



Natural Resources
Canada

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Canada

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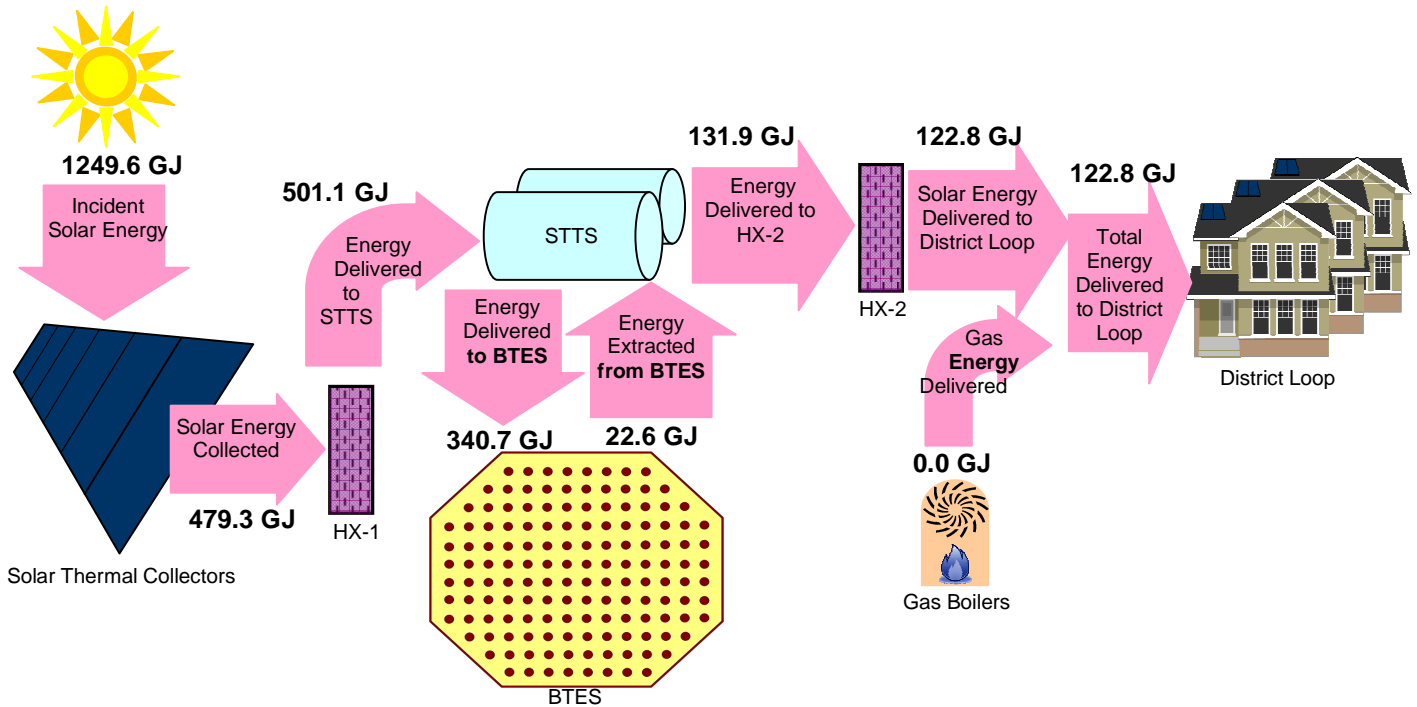
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PROPRIETARY

Drake Landing Solar Community Energy Overview for May 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

Table 0-1 Summary for May 2014		
Description	This Month	Since July 1, 2013
Total Incident Solar Energy	1249.6 GJ	11447.5 GJ
Total Solar Energy Collected	479.3 GJ	3811.0 GJ
Total Solar Energy Delivered to STTS	501.1 GJ	4025.8 GJ
Total Energy Delivered to BTES	340.7 GJ	2067.3 GJ
Total Energy Extracted from BTES	22.6 GJ	1372.5 GJ
Total Energy Delivered from STTS to HX-2	131.9 GJ	2866.6 GJ
Total Solar Energy Delivered to District Loop	122.8 GJ	2735.7 GJ
Natural Gas Energy Used	0.0 GJ ¹	232.5 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	252.3 GJ
Total Energy Delivered to District Loop	122.8 GJ	2987.8 GJ
Average Solar Collector Efficiency	38 %	33 %
Average Efficiency of HX-1	105 %	106 %
Average Efficiency of HX-2	93 %	95 %
Average BTES core temperature	46.5 °C	51.4 °C
Electrical energy used	4.1 GJ ²	8893.7 GJ ³
PV energy generated	9.3916 GJ	55.8 GJ
Net change in energy stored in STTS	-42.1 GJ	258.3 GJ
Solar Fraction	100.0 %	91.6 %

¹ 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 1 and June 5, 2014

² 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 1 and June 5, 2014.

³ Since June 14, 2013.