



Energy Report Summary for November 2014

Prepared for:



Natural Resources
Canada

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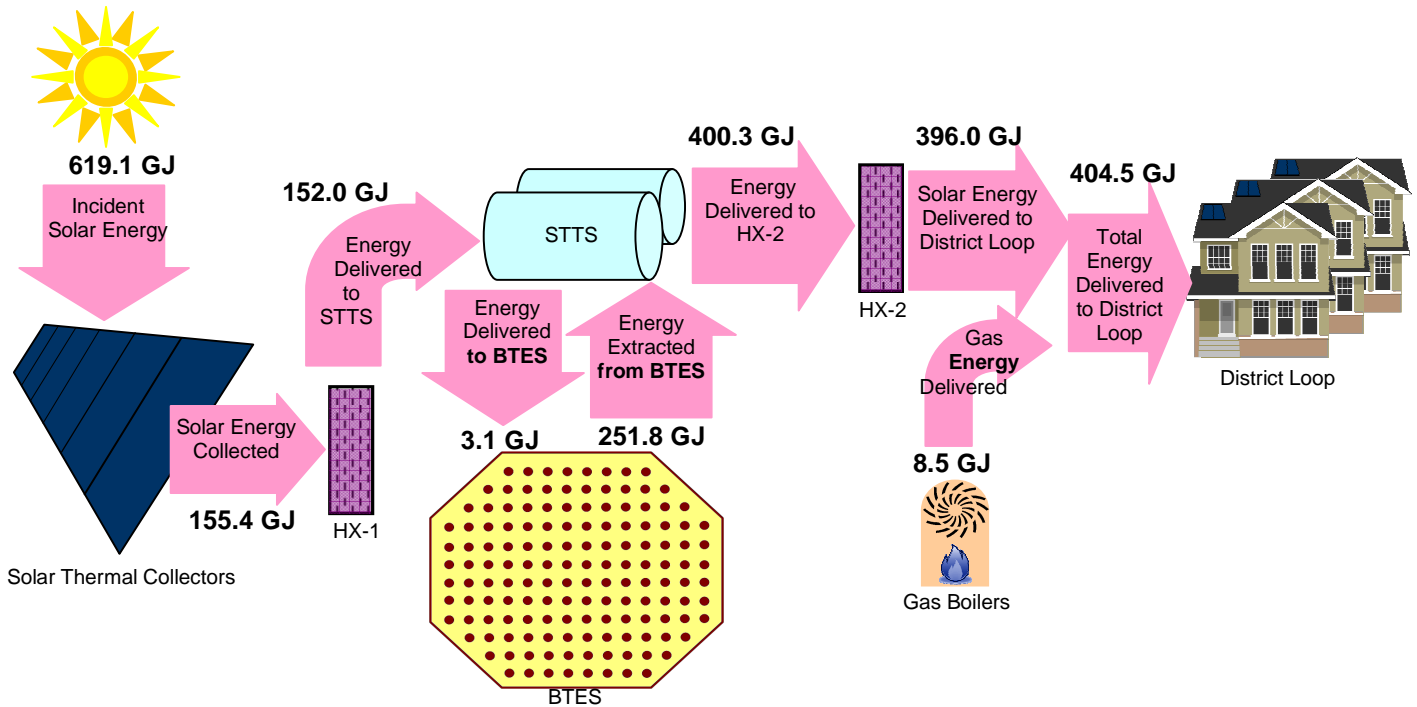
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PROPRIETARY

Drake Landing Solar Community Energy Overview for November 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 November 2014		
Description	This Month	Since July 1, 2014
Total Incident Solar Energy	619.1 GJ	5473.6 GJ
Total Solar Energy Collected	155.4 GJ	1949.7 GJ
Total Solar Energy Delivered to STTS	152.0 GJ	1991.1 GJ
Total Energy Delivered to BTES	3.1 GJ	1384.2 GJ
Total Energy Extracted from BTES	251.8 GJ	251.9 GJ
Total Energy Delivered from STTS to HX-2	400.3 GJ	672.2 GJ
Total Solar Energy Delivered to District Loop	396.0 GJ	642.4 GJ
Natural Gas Energy Used	93.1 GJ ¹	93.1 GJ
Boiler Thermal Energy Delivered to the District Loop	8.5 GJ	8.5 GJ
Total Energy Delivered to District Loop	404.5 GJ	650.9 GJ
Average Solar Collector Efficiency	25 %	36 %
Average Efficiency of HX-1	98 %	102 %
Average Efficiency of HX-2	99 %	96 %
Average BTES core temperature	55.7 °C	58.1 °C
Electrical energy used	7.2 GJ ²	24.7 GJ ³
PV energy generated	0.9301 GJ	32.7 GJ
Net change in energy stored in STTS	0.4 GJ	250.6 GJ
Solar Fraction	97.9 %	98.7 %

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 November 12, and December 15, 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 November 12, and December 15, 2014.

³ Since June 26, 2014.