



Energy Report Summary for August 2014

Prepared for:



Natural Resources
Canada

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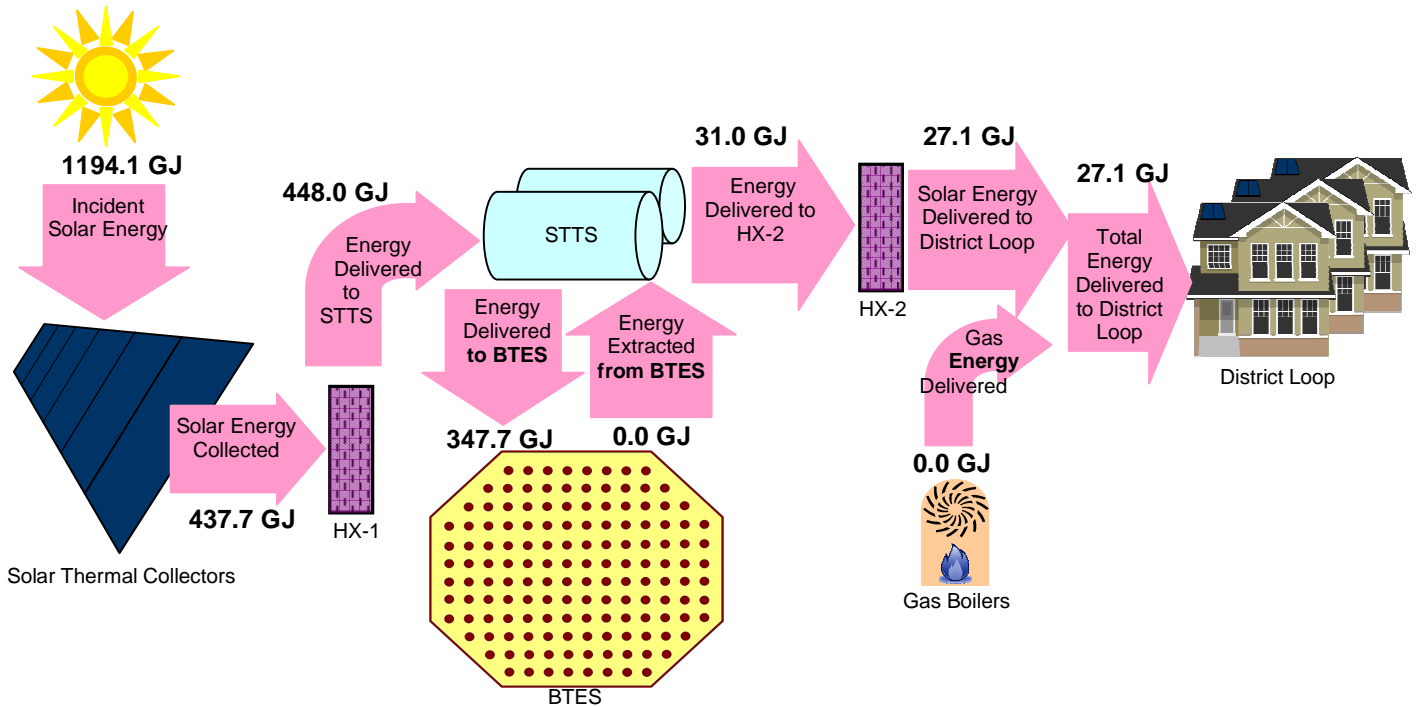
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PROPRIETARY

Drake Landing Solar Community Energy Overview for August 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 August 2014		
Description	This Month	Since July 1, 2014
Total Incident Solar Energy	1194.1 GJ	2708.2 GJ
Total Solar Energy Collected	437.7 GJ	1068.9 GJ
Total Solar Energy Delivered to STTS	448.0 GJ	1122.6 GJ
Total Energy Delivered to BTES	347.7 GJ	890.6 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	31.0 GJ	52.9 GJ
Total Solar Energy Delivered to District Loop	27.1 GJ	45.8 GJ
Natural Gas Energy Used	0.0 GJ ¹	0.0 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	0.0 GJ
Total Energy Delivered to District Loop	27.1 GJ	45.8 GJ
Average Solar Collector Efficiency	37 %	39 %
Average Efficiency of HX-1	102 %	105 %
Average Efficiency of HX-2	87 %	87 %
Average BTES core temperature	58.7 °C	58.4 °C
Electrical energy used	9.4 GJ ²	9.4 GJ ³
PV energy generated	8.6715 GJ	20.5 GJ
Net change in energy stored in STTS	78.4 GJ	188.2 GJ
Solar Fraction	100.0 %	100.0 %

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 August 1, and September 19, 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 June 28, and September 19, 2014.

³ Since June 26, 2014.