



Energy Report Summary for March 2015

Prepared for:



Natural Resources
Canada

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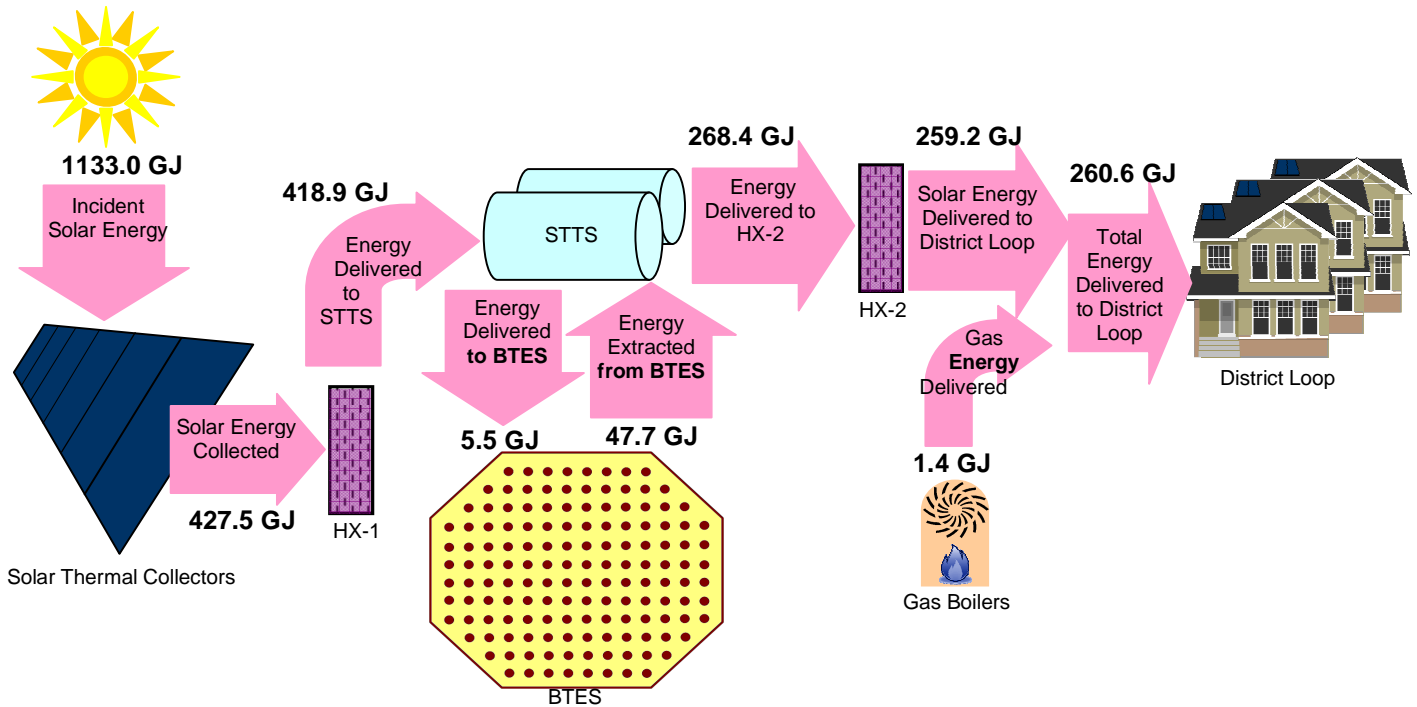
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PROPRIETARY

Drake Landing Solar Community Energy Overview for March 2015

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 March 2015		
Description	This Month	Since July 1, 2015
Total Incident Solar Energy	1133.0 GJ	8383.5 GJ
Total Solar Energy Collected	427.5 GJ	2813.8 GJ
Total Solar Energy Delivered to STTS	418.9 GJ	2841.7 GJ
Total Energy Delivered to BTES	5.5 GJ	1393.7 GJ
Total Energy Extracted from BTES	47.7 GJ	1093.2 GJ
Total Energy Delivered from STTS to HX-2	268.4 GJ	2136.0 GJ
Total Solar Energy Delivered to District Loop	259.2 GJ	2084.2 GJ
Natural Gas Energy Used	0.0 GJ ¹	76.5 GJ
Boiler Thermal Energy Delivered to the District Loop	1.4 GJ	107.2 GJ
Total Energy Delivered to District Loop	260.6 GJ	2191.2 GJ
Average Solar Collector Efficiency	38 %	34 %
Average Efficiency of HX-1	98 %	101 %
Average Efficiency of HX-2	97 %	98 %
Average BTES core temperature	44.2 °C	52.3 °C
Electrical energy used	6.6 GJ ²	58.7 GJ ³
PV energy generated	5.5409 GJ	42.5 GJ
Net change in energy stored in STTS	192.7 GJ	469.2 GJ
Solar Fraction	99.5 %	95.1 %

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 February 25, and March 26, 2015

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 February 25, and March 26, 2015.

³ Since June 26, 2014.