



Energy Report Summary for February 2015

Prepared for:



Natural Resources
Canada

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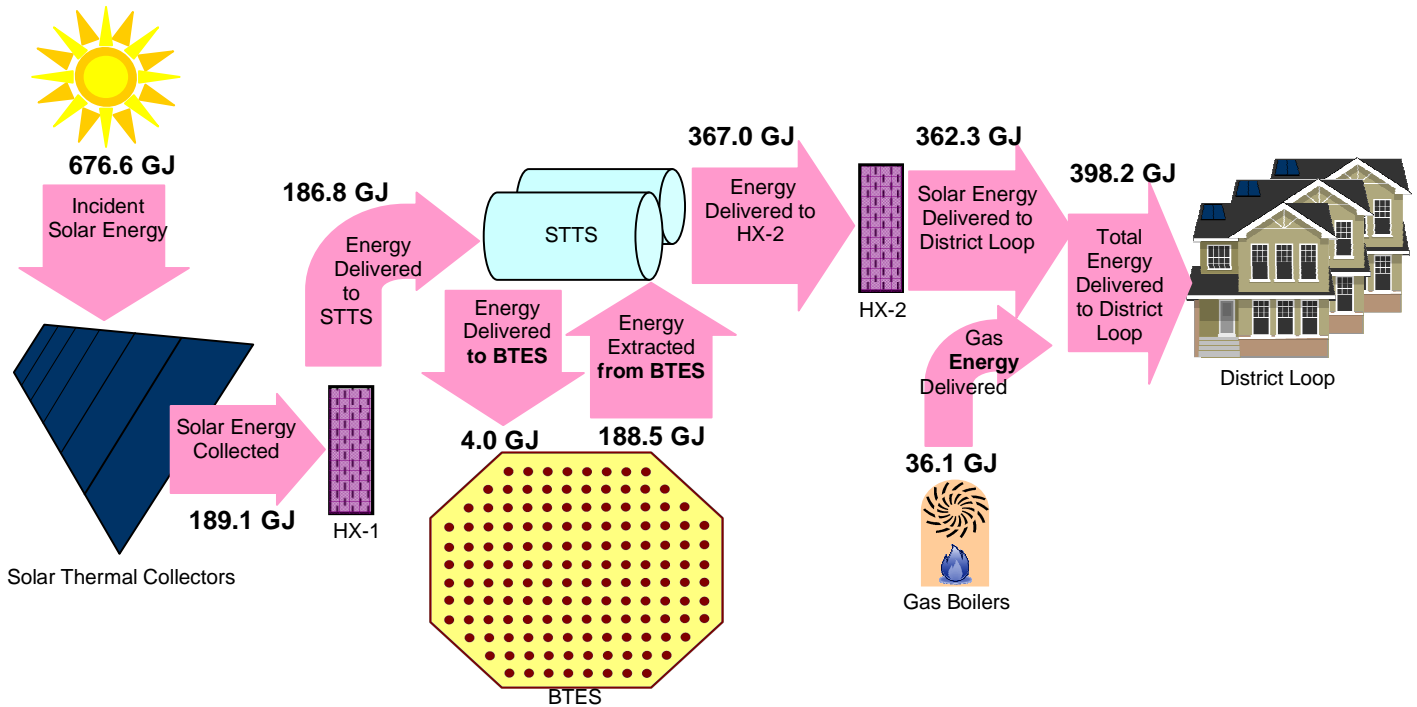
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PROPRIETARY

Drake Landing Solar Community Energy Overview for February 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 February 2015		
Description	This Month	Since July 1, 2015
Total Incident Solar Energy	676.6 GJ	7250.5 GJ
Total Solar Energy Collected	189.1 GJ	2386.3 GJ
Total Solar Energy Delivered to STTS	186.8 GJ	2422.8 GJ
Total Energy Delivered to BTES	4.0 GJ	1388.2 GJ
Total Energy Extracted from BTES	188.5 GJ	1045.5 GJ
Total Energy Delivered from STTS to HX-2	367.0 GJ	1867.6 GJ
Total Solar Energy Delivered to District Loop	362.3 GJ	1825.0 GJ
Natural Gas Energy Used	42.4 GJ ¹	76.5 GJ
Boiler Thermal Energy Delivered to the District Loop	36.1 GJ	105.8 GJ
Total Energy Delivered to District Loop	398.2 GJ	1930.6 GJ
Average Solar Collector Efficiency	28 %	33 %
Average Efficiency of HX-1	99 %	102 %
Average Efficiency of HX-2	99 %	98 %
Average BTES core temperature	40.2 °C	53.4 °C
Electrical energy used	16.0 GJ ²	52.1 GJ ³
PV energy generated	2.1495 GJ	36.9 GJ
Net change in energy stored in STTS	4.3 GJ	276.5 GJ
Solar Fraction	91.0 %	94.5 %

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 January 9, and February 25, 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 January 9, and February 25, 2015.

³ Since June 26, 2014.