



Energy Report Summary for February 2014

Prepared for:



Natural Resources
Canada

Ressources Naturelles
Canada

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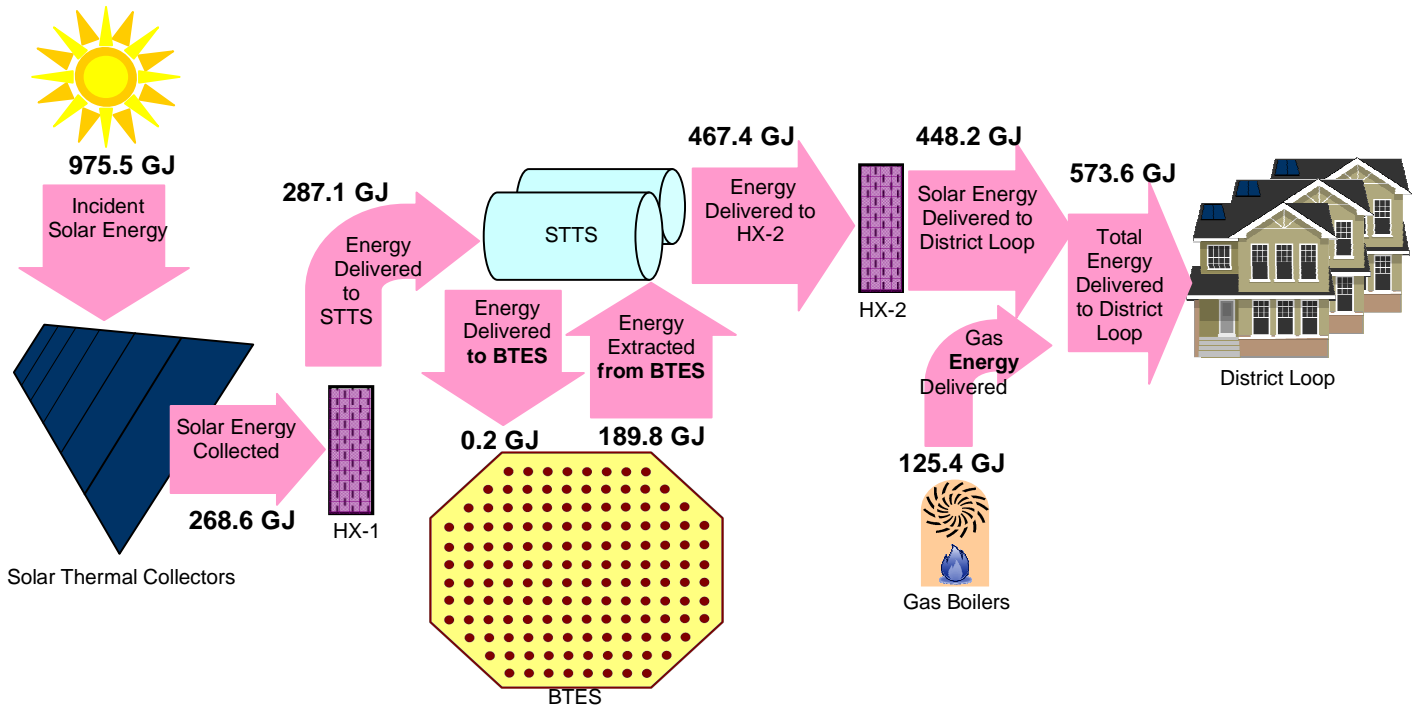
March 14, 2014
Document Version 1.0
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for February 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 February 2014		
Description	This Month	Since July 1, 2013
Total Incident Solar Energy	975.5 GJ	7812.1 GJ
Total Solar Energy Collected	268.6 GJ	2511.3 GJ
Total Solar Energy Delivered to STTS	287.1 GJ	2656.8 GJ
Total Energy Delivered to BTES	0.2 GJ	1416.8 GJ
Total Energy Extracted from BTES	189.8 GJ	1182.5 GJ
Total Energy Delivered from STTS to HX-2	467.4 GJ	2091.6 GJ
Total Solar Energy Delivered to District Loop	448.2 GJ	2004.3 GJ
Natural Gas Energy Used	123.0 GJ ¹	158.1 GJ
Boiler Thermal Energy Delivered to the District Loop	125.4 GJ	174.5 GJ
Total Energy Delivered to District Loop	573.6 GJ	2178.8 GJ
Average Solar Collector Efficiency	28 %	32 %
Average Efficiency of HX-1	107 %	106 %
Average Efficiency of HX-2	96 %	96 %
Average BTES core temperature	40.7 °C	54.4 °C
Electrical energy used	17.8 GJ ²	8871.8 GJ ³
PV energy generated	1.4737 GJ	35.0 GJ
Net change in energy stored in STTS	36.7 GJ	267.4 GJ
Solar Fraction	78.1 %	92.0 %

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 January 15 and February 26, 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 January 15 and February 26, 2014.

³ Since June 14, 2013.