



Energy Report Summary for April 2015

Prepared for:



Natural Resources
Canada

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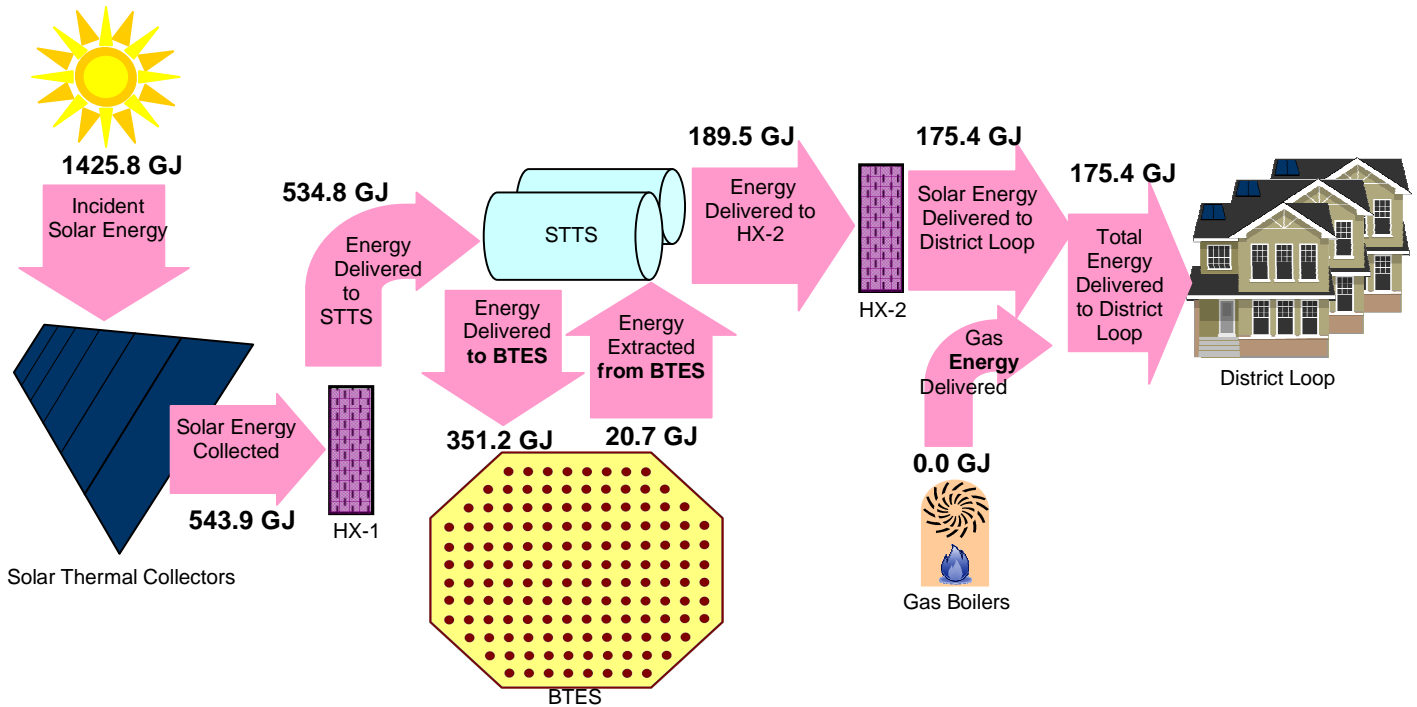
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PROPRIETARY

Drake Landing Solar Community Energy Overview for April 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 April 2015		
Description	This Month	Since July 1, 2014
Total Incident Solar Energy	1425.8 GJ	9809.3 GJ
Total Solar Energy Collected	543.9 GJ	3357.7 GJ
Total Solar Energy Delivered to STTS	534.8 GJ	3376.5 GJ
Total Energy Delivered to BTES	351.2 GJ	1744.9 GJ
Total Energy Extracted from BTES	20.7 GJ	1113.9 GJ
Total Energy Delivered from STTS to HX-2	189.5 GJ	2325.5 GJ
Total Solar Energy Delivered to District Loop	175.4 GJ	2259.6 GJ
Natural Gas Energy Used	0.0 GJ ¹	76.5 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	107.2 GJ
Total Energy Delivered to District Loop	175.4 GJ	2366.6 GJ
Average Solar Collector Efficiency	38 %	34 %
Average Efficiency of HX-1	98 %	101 %
Average Efficiency of HX-2	93 %	97 %
Average BTES core temperature	47.7 °C	51.9 °C
Electrical energy used	4.7 GJ ²	63.4 GJ ³
PV energy generated	9.5494 GJ	52.0 GJ
Net change in energy stored in STTS	14.8 GJ	484.0 GJ
Solar Fraction	100.0 %	95.5 %

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 March 26, and April 28, 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 March 26, and April 28, 2015.

³ Since June 26, 2014.