



Energy Report Summary for April 2016

Prepared for:



Natural Resources
Canada

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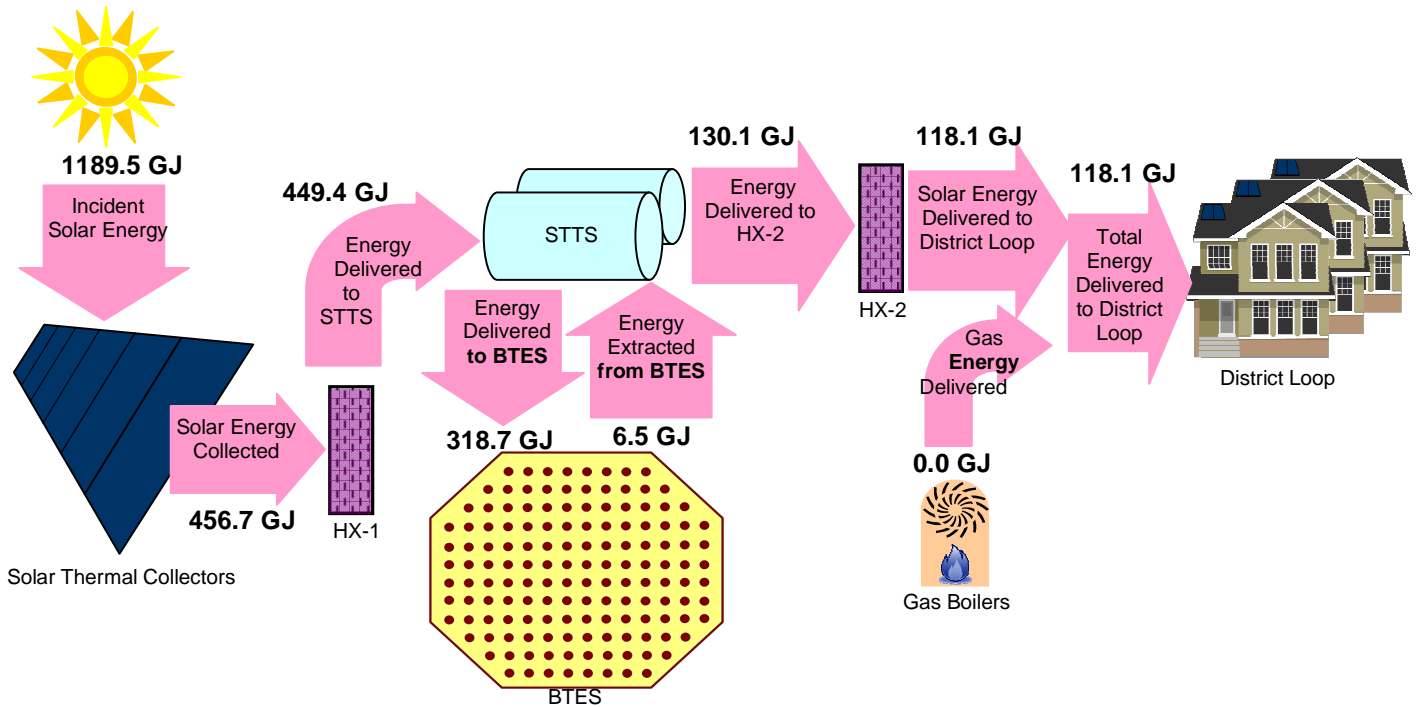
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PROPRIETARY

Drake Landing Solar Community Energy Overview for April 2016

This document summarizes the energy generated and used within the Drake Landing Solar Community at Okotoks Alberta.

Additional Information can be found here: <http://www.dlsc.ca>



System Energy Diagram

Table 0-1 Summary for April 2016		
Description	This Month	Since July 1, 2015
Total Incident Solar Energy	1189.5 GJ	9881.0 GJ
Total Solar Energy Collected	456.7 GJ	3349.6 GJ
Total Solar Energy Delivered to STTS	449.4 GJ	3328.7 GJ
Total Energy Delivered to BTES	318.7 GJ	1876.7 GJ
Total Energy Extracted from BTES	6.5 GJ	858.6 GJ
Total Energy Delivered from STTS to HX-2	130.1 GJ	2141.8 GJ
Total Solar Energy Delivered to District Loop	118.1 GJ	2060.3 GJ
Natural Gas Energy Used	0.0 GJ ¹	1.0 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	2.1 GJ
Total Energy Delivered to District Loop	118.1 GJ	2062.4 GJ
Average Solar Collector Efficiency	38 %	34 %
Average Efficiency of HX-1	98 %	99 %
Average Efficiency of HX-2	91 %	96 %
Average BTES core temperature	- °C	- °C
Electrical energy used	5.0591 GJ	69.2 GJ ²
PV energy generated	8.2585 GJ	53.5 GJ
Net change in energy stored in STTS	7.1 GJ	168.8 GJ
Solar Fraction	100.0 %	99.9 %

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 26, 2016 and April 29, 2016

² Since June 30, 2015.