



Energy Report Summary for May 2016

Prepared for:



Natural Resources
Canada

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Canada

Canada

Prepared by:



leidos



*Leidos Canada
(Formerly SAIC Canada)*

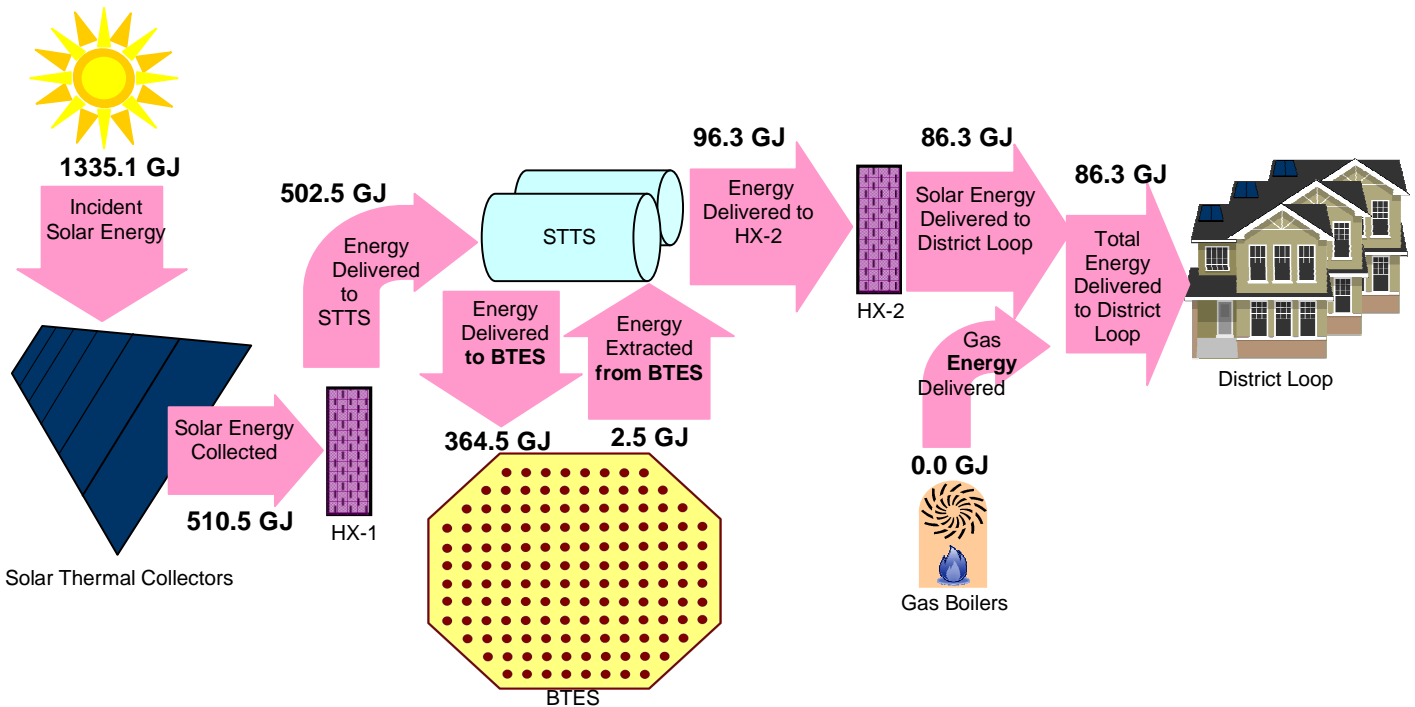
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PROPRIETARY

Drake Landing Solar Community Energy Overview for May 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 May 2016		
Description	This Month	Since July 1, 2015
Total Incident Solar Energy	1335.1 GJ	11216.1 GJ
Total Solar Energy Collected	510.5 GJ	3860.1 GJ
Total Solar Energy Delivered to STTS	502.5 GJ	3831.2 GJ
Total Energy Delivered to BTES	364.5 GJ	2241.2 GJ
Total Energy Extracted from BTES	2.5 GJ	861.1 GJ
Total Energy Delivered from STTS to HX-2	96.3 GJ	2238.1 GJ
Total Solar Energy Delivered to District Loop	86.3 GJ	2146.6 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	86.3 GJ	2148.7 GJ
Average Solar Collector Efficiency	38 %	34 %
Average Efficiency of HX-1	98 %	99 %
Average Efficiency of HX-2	90 %	96 %
Average BTES core temperature	- °C	- °C
Electrical energy used	4.8159 GJ	74.0 GJ ²
PV energy generated	10.2905 GJ	63.8 GJ
Net change in energy stored in STTS	44.2 GJ	213.0 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 April 29, 2016 and May 31, 2016

² Since June 30, 2015.