



Energy Report Summary for February 2016

Prepared for:



Natural Resources
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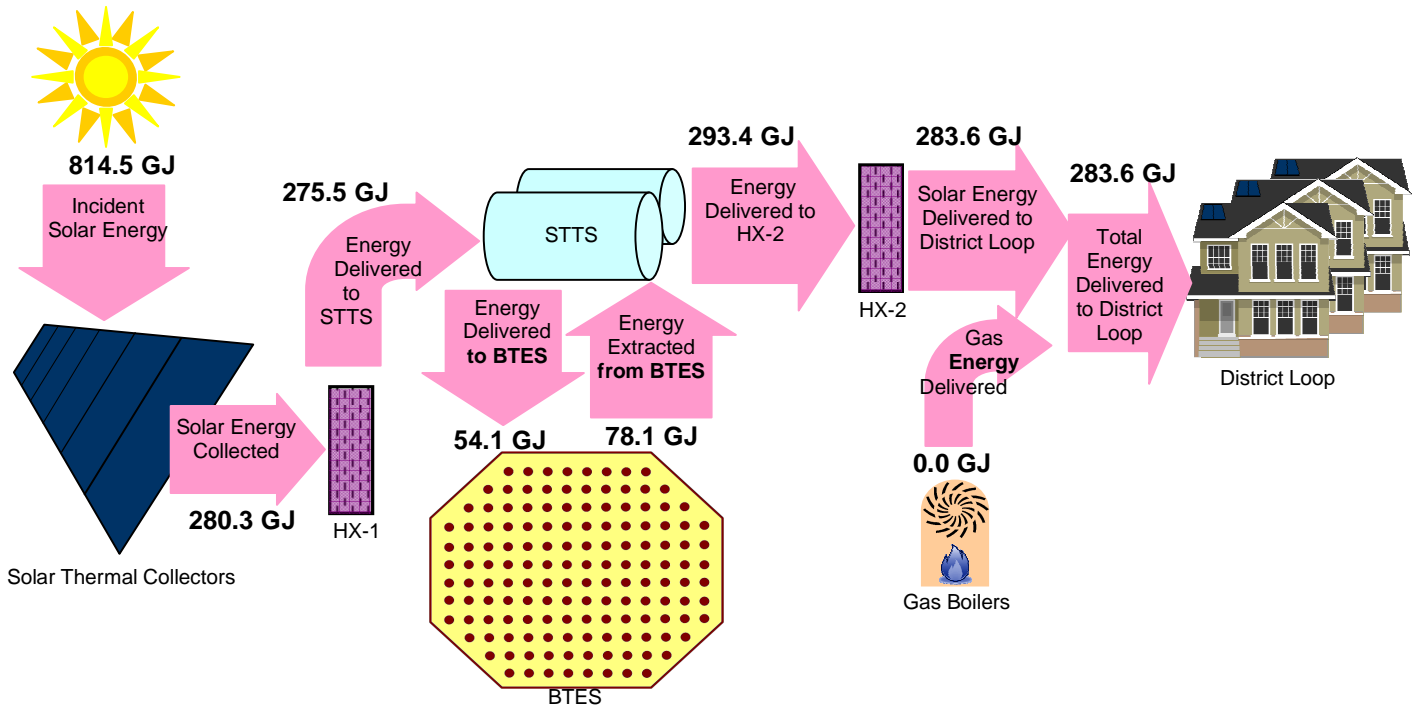
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PROPRIETARY

Drake Landing Solar Community Energy Overview for February 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 February 2016		
Description	This Month	Since July 1, 2015
Total Incident Solar Energy	814.5 GJ	7553.6 GJ
Total Solar Energy Collected	280.3 GJ	2467.2 GJ
Total Solar Energy Delivered to STTS	275.5 GJ	2462.2 GJ
Total Energy Delivered to BTES	54.1 GJ	1393.0 GJ
Total Energy Extracted from BTES	78.1 GJ	834.5 GJ
Total Energy Delivered from STTS to HX-2	293.4 GJ	1765.6 GJ
Total Solar Energy Delivered to District Loop	283.6 GJ	1708.9 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	283.6 GJ	1711.0 GJ
Average Solar Collector Efficiency	34 %	33 %
Average Efficiency of HX-1	98 %	100 %
Average Efficiency of HX-2	97 %	97 %
Average BTES core temperature	- °C	58.0 °C
Electrical energy used	6.5115 GJ	58.6 GJ ²
PV energy generated	3.4928 GJ	38.9 GJ
Net change in energy stored in STTS	6.1 GJ	138.1 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 January 28, 2016 and February 26, 2016

² Since June 30, 2015.