Energy Report Summary for May 2015

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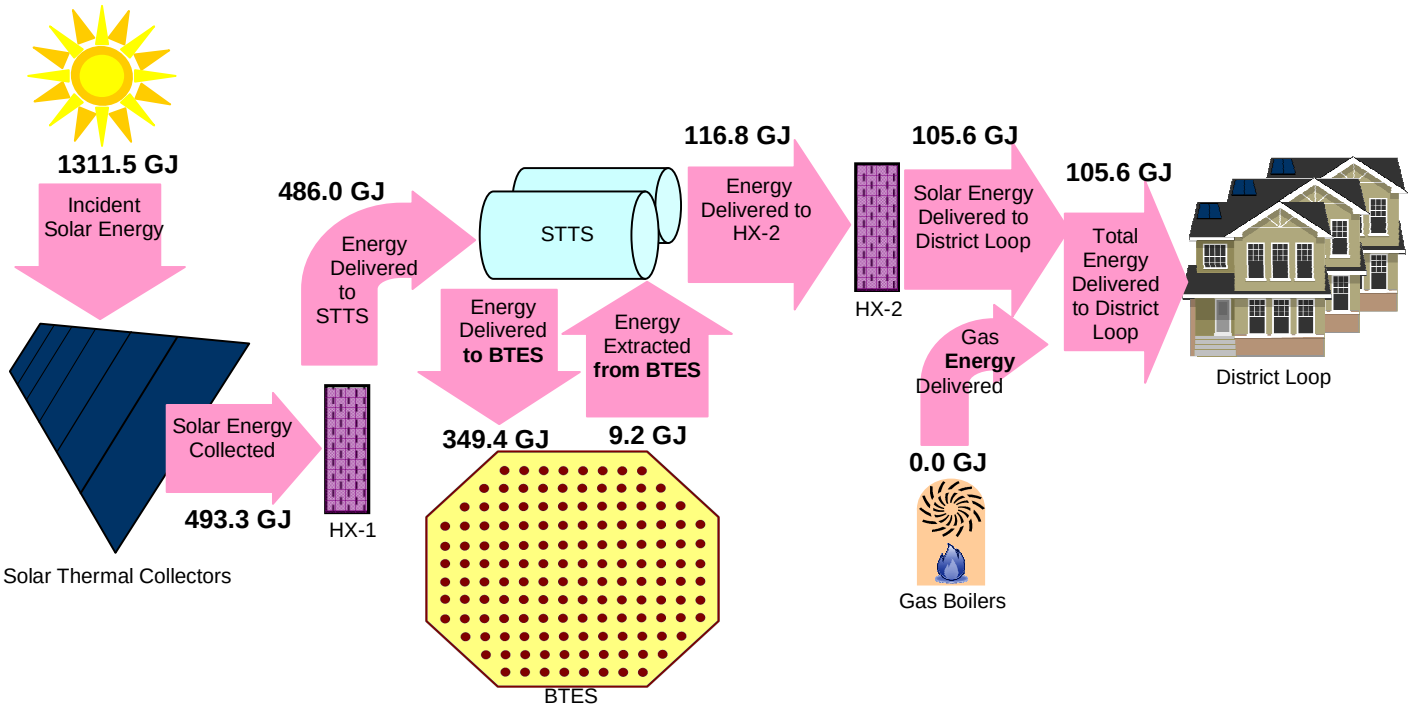
PROPRIETARY

Drake Landing Solar Community Energy Overview for May 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 May 2015		
Description	**This Month**	**Since July 1, 2014**
Total Incident Solar Energy	1311.5 GJ	11120.8 GJ
Total Solar Energy Collected	493.3 GJ	3851.0 GJ
Total Solar Energy Delivered to STTS	486.0 GJ	3862.5 GJ
Total Energy Delivered to BTES	349.4 GJ	2094.3 GJ
Total Energy Extracted from BTES	9.2 GJ	1123.1 GJ
Total Energy Delivered from STTS to HX-2	116.8 GJ	2442.3 GJ
Total Solar Energy Delivered to District Loop	105.6 GJ	2365.2 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	105.6 GJ	2472.2 GJ
Average Solar Collector Efficiency	38 %	35 %
Average Efficiency of HX-1	99 %	100 %
Average Efficiency of HX-2	90 %	97 %
Average BTES core temperature	50.5 °C	51.7 °C
Electrical energy used	3.6 GJ[2]	67.0 GJ[3]
PV energy generated	10.3049 GJ	62.3 GJ
Net change in energy stored in STTS	29.0 GJ	513.0 GJ
Solar Fraction	100.0 %	95.7 %

[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 28 and May 27, 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 April 28 and May 27, 2015.
[3] Since June 26, 2014.