

Energy Report Summary for August 2015

Prepared for:



Natural Resources Canada Ressources Naturelles Canada



Prepared by:





Leidos Canada (Formerly SAIC Canada)

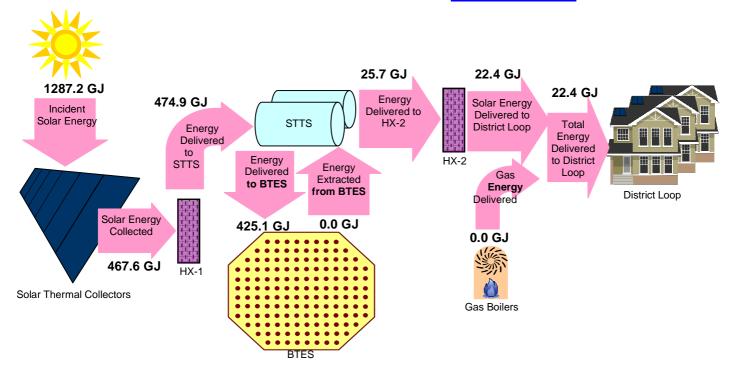
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PROPRIETARY

Drake Landing Solar Community Energy Overview for August 2015

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 August 2015				
Description	This Month		Since July 1, 2015	
Total Incident Solar Energy	1287.2	GJ	2672.3	GJ
Total Solar Energy Collected	467.6	GJ	982.7	GJ
Total Solar Energy Delivered to STTS	474.9	GJ	987.3	GJ
Total Energy Delivered to BTES	425.1	GJ	869.2	GJ
Total Energy Extracted from BTES	0.0	GJ	0.0	GJ
Total Energy Delivered from STTS to HX-2	25.7	GJ	46.6	GJ
Total Solar Energy Delivered to District Loop	22.4	GJ	40.6	GJ
Natural Gas Energy Used	0.0	GJ ¹	0.0	GJ
Boiler Thermal Energy Delivered to the District Loop	0.0	GJ	0.0	GJ
Total Energy Delivered to District Loop	22.4	GJ	40.6	GJ
Average Solar Collector Efficiency	36	%	37	%
Average Efficiency of HX-1	102	%	100	%
Average Efficiency of HX-2	87	%	87	%
Average BTES core temperature	59.3	°C	57.8	°C
Electrical energy used	5.3	GJ ²	8.0	GJ ³
PV energy generated	9.1943	GJ	20.4	GJ
Net change in energy stored in STTS	24.1	GJ	71.5	GJ
Solar Fraction	100.0	%	100.0	%

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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 July 27, and August 27, 2015

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 July 27, and August 27, 2015.

³ Since June 30, 2015.