

Energy Report Summary for January 2013

Prepared for:



Natural Resources
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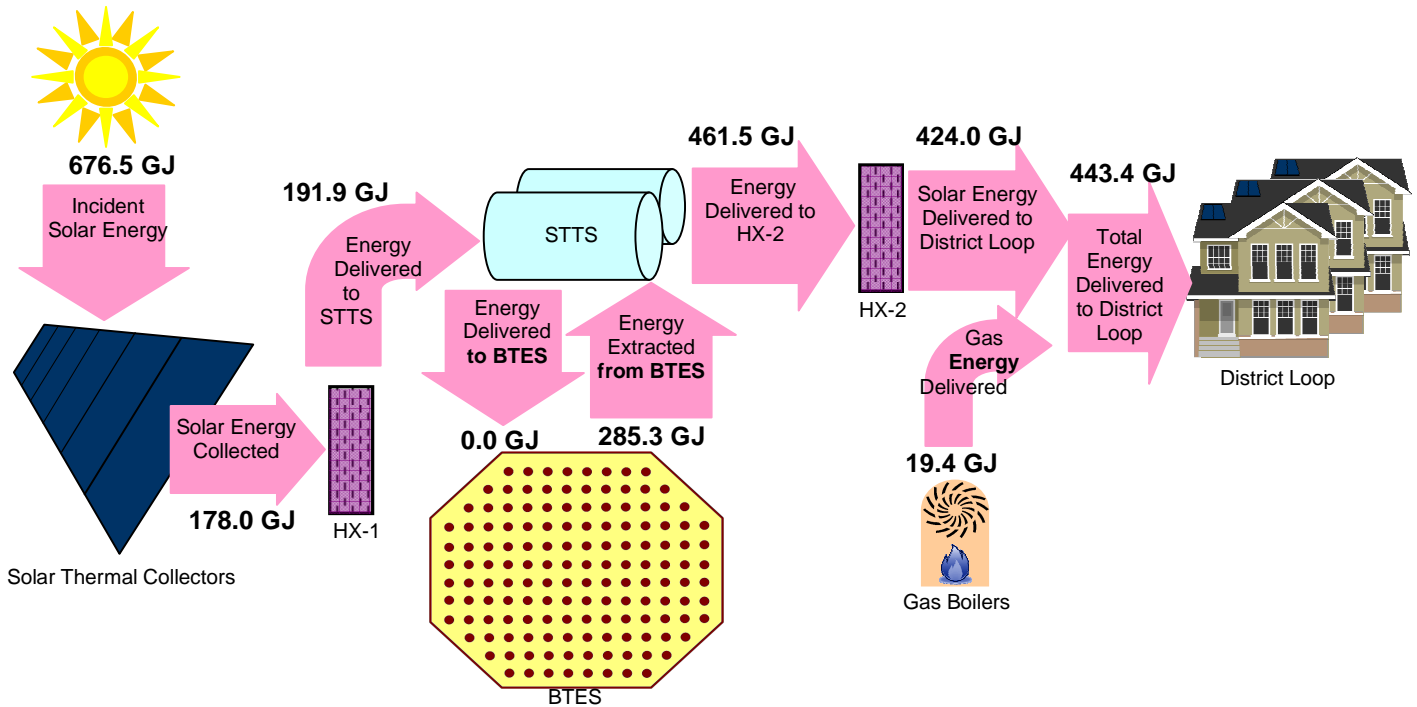
April 3, 2013
Document Version 1.0
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for January 2013

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 January 2013		
Description	This Month	Since July 1, 2012
Total Incident Solar Energy	676.5 GJ	6985.0 GJ
Total Solar Energy Collected	178.0 GJ	2243.9 GJ
Total Solar Energy Delivered to STTS	191.9 GJ	2389.9 GJ
Total Energy Delivered to BTES	0.0 GJ	1498.5 GJ
Total Energy Extracted from BTES	285.3 GJ	1079.6 GJ
Total Energy Delivered from STTS to HX-2	461.5 GJ	1646.5 GJ
Total Solar Energy Delivered to District Loop	424.0 GJ	1446.7 GJ
Boiler Thermal Energy Delivered to the District Loop	19.4 GJ	56.9 GJ
Total Energy Delivered to District Loop	443.4 GJ	1503.6 GJ
Average Solar Collector Efficiency	26 %	32 %
Average Efficiency of HX-1	108 %	107 %
Average Efficiency of HX-2	92 %	88 %
Average BTES core temperature	48.7 °C	58.9 °C
PV energy generated	1.0837 GJ	7.1 GJ
Net change in energy stored in STTS	-47.8 GJ	508.0 GJ
Solar Fraction	95.6 %	96.2 %