



Energy Report Summary for May 2009

Prepared for:



Natural Resources
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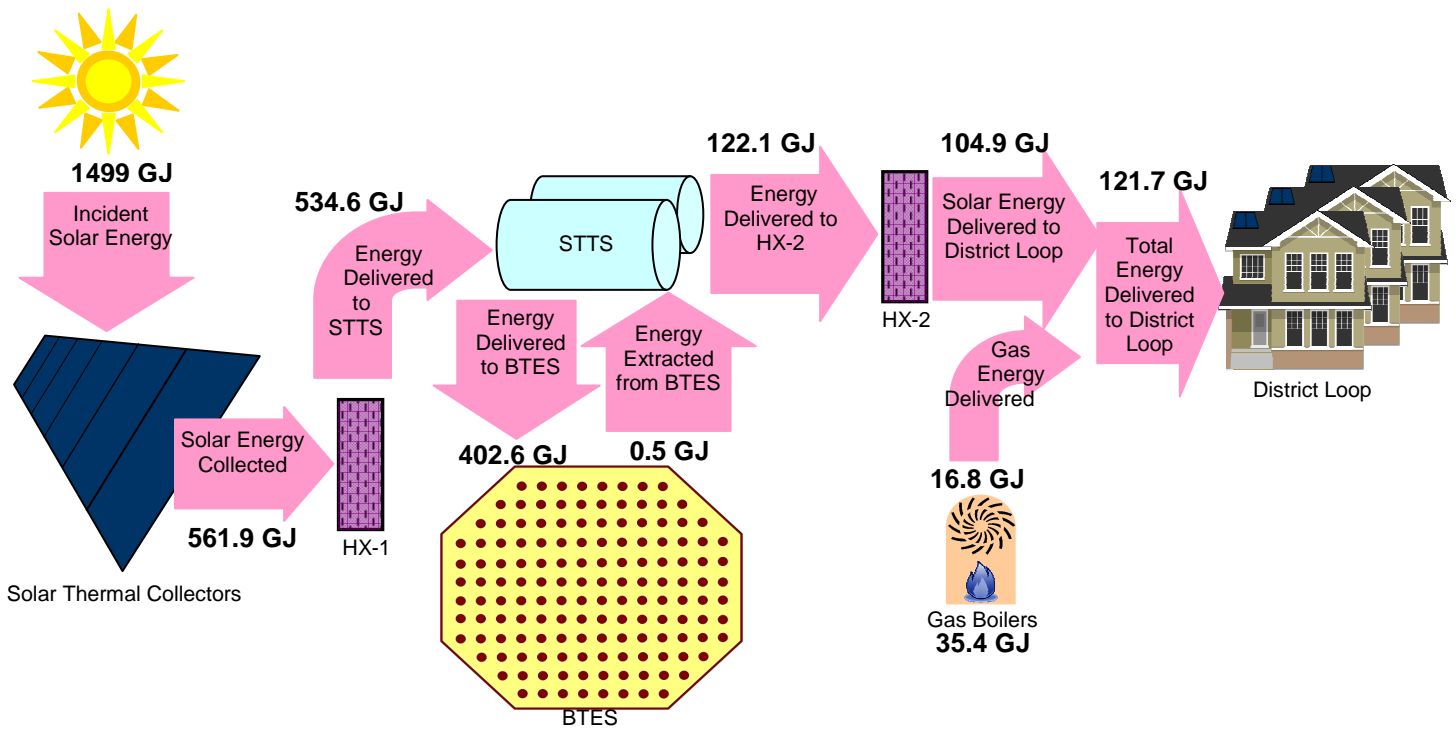
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PROPRIETARY

Drake Landing Solar Community Energy Overview for May 2009

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 1 Summary for May 2009		
Description	This Month	Since July 1, 2008
Total Incident Solar Energy	1499.2 GJ	12377.6 GJ
Total Solar Energy Collected	561.9 GJ	4030.8 GJ
Total Solar Energy Delivered to STTS	534.6 GJ	3786.2 GJ
Total Energy Delivered to BTES	402.6 GJ	2348.9 GJ
Total Energy Extracted from BTES	0.5 GJ	561.7 GJ
Total Energy Delivered from STTS to HX-2	122.1GJ	1674.2 GJ
Total Solar Energy Delivered to District Loop	104.9 GJ	1738.2 GJ
Natural Gas Energy Used	35.4 GJ	1192.5 GJ
Boiler Thermal Energy Delivered to the District Loop	16.8 GJ	1172.2 GJ
Total Energy Delivered to District Loop	121.7 GJ	2910.4 GJ
Average Solar Collector Efficiency	37.5 %	32.6%
Average Efficiency of HX-1	95.1 %	93.9%
Average Efficiency of HX-2	85.9 %	103.8%
Average BTES core temperature	33.2 °C	45.0 °C
Electrical energy used	0.0 GJ	90.2 GJ
PV energy generated	1.6562 GJ	12.0 GJ
Net change in energy stored in STTS	8.88 GJ	6.3 GJ
Solar Fraction	86.2 %	59.7%