



Energy Report Summary for September 2007

Prepared for:



Natural Resources
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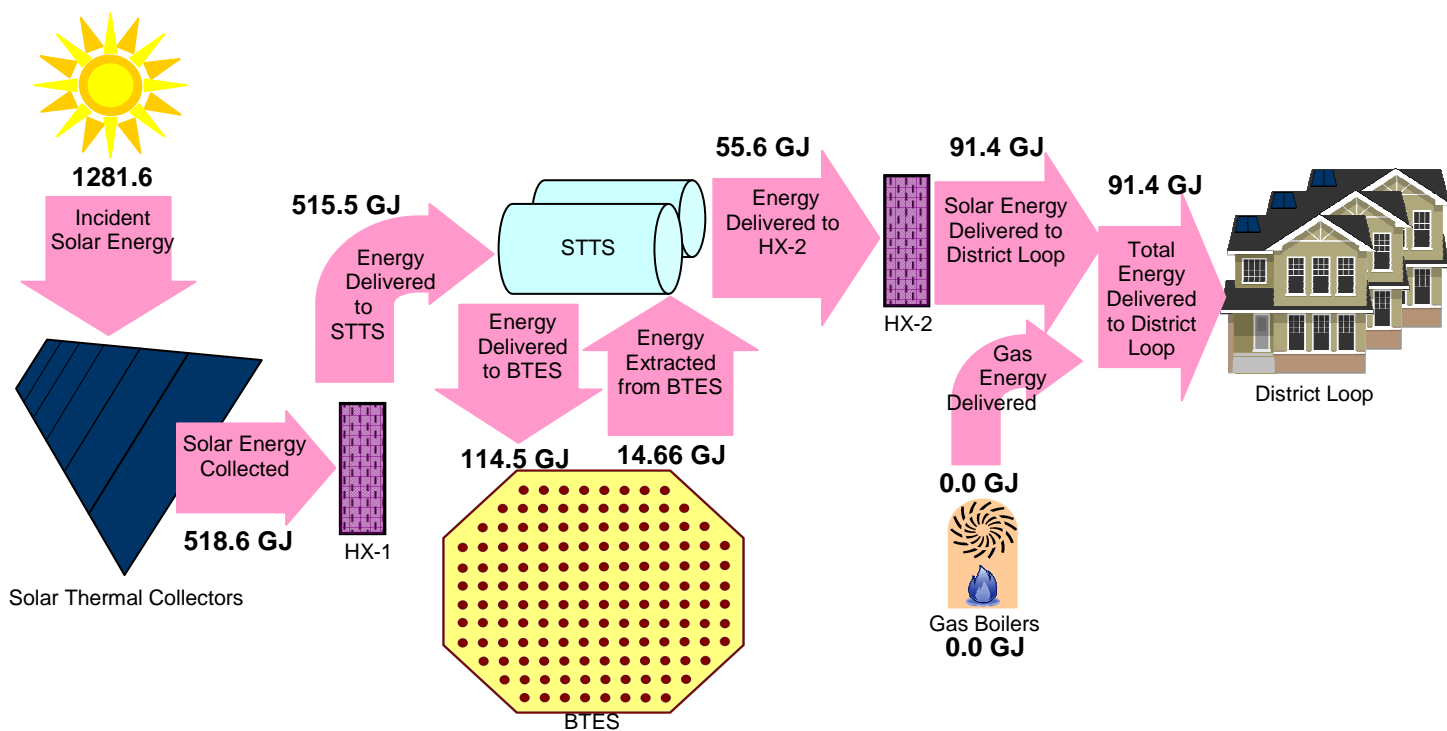
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PROPRIETARY

Drake Landing Solar Community Energy Overview for September 2007

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

Summary for September 2007		
Description	This Month	Since July 1, 2007
Total Incident Solar Energy for the month	1281.6 GJ	4301 GJ
Total Solar Energy Collected for the month ¹	518.6 GJ	1787 GJ
Total Solar Energy Delivered to STTS for the month	515.5 GJ	1847 GJ
Total Energy Delivered to BTES for the month	114.5 GJ	1342.8 GJ
Total Energy Extracted from BTES for the month	14.66 GJ	18.2 GJ
Total Energy Delivered from STTS to HX-2	55.6 GJ	98.4 GJ
Total Solar Energy Delivered to District Loop for the month	91.4 GJ	166.4 GJ
Natural Gas Energy Used	0.0 GJ	3.7 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	0.0 GJ	0.6 GJ
Total Energy Delivered to District Loop for the month	91.4 GJ	166.9 GJ
Average Solar Collector Efficiency for the month	40.5%	41.5%
Average Efficiency of HX-1 for the month	99.4%	97%
Average Efficiency of HX-2 for the month	164%	169%
Average BTES core temperature for the month	44.82 °C	43.49 °C
Average BTES core temperature at start of month	45.17 °C	44.37 °C
Average BTES core temperature at end of month	47.35 °C	45.41 °C
Change in average BTES core Temperature during the month	2.19 °C	1.04 °C
Electrical energy used for the month	13.26 GJ	38.09 GJ
PV energy generated for the month	1.29 GJ	1.63 GJ
Net change in energy stored in STTS during the month	2.41 GJ	-6.52 GJ
Solar Fraction	100%	100%

¹ Corrected for glycol concentration variance