



Energy Report Summary for November 2007

Prepared for:



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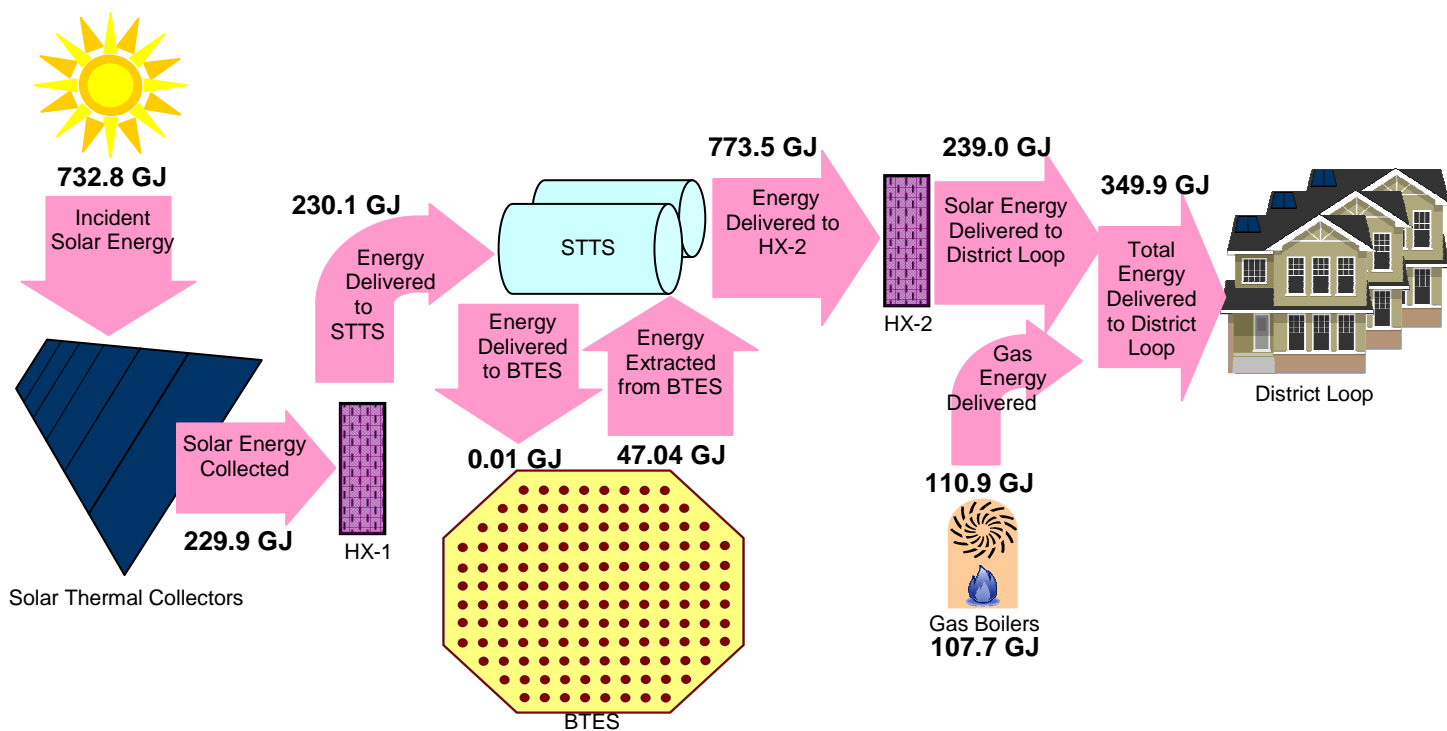
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Drake Landing Solar Community Energy Overview for November 2007

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 November 2007		
Description	This Month	Since July 1, 2007
Total Incident Solar Energy for the month	732.8 GJ	6128 GJ
Total Solar Energy Collected for the month ¹	229.9 GJ	2419 GJ
Total Solar Energy Delivered to STTS for the month	230.1 GJ	2480 GJ
Total Energy Delivered to BTES for the month	0.01 GJ	1593.0 GJ
Total Energy Extracted from BTES for the month	47.04 GJ	90.1 GJ
Total Energy Delivered from STTS to HX-2	773.5 GJ	1012.0 GJ
Total Solar Energy Delivered to District Loop for the month	239.0 GJ	552.4 GJ
Natural Gas Energy Used	107.7 GJ	128.5 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	110.9 GJ	128.3 GJ
Total Energy Delivered to District Loop for the month	349.9 GJ	680.6 GJ
Average Solar Collector Efficiency for the month	31.4%	39%
Average Efficiency of HX-1 for the month	100%	98%
Average Efficiency of HX-2 for the month	30.9%	55%
Average BTES core temperature for the month	36.91 °C	41.94 °C
Average BTES core temperature at start of month	41.22 °C	44.34 °C
Average BTES core temperature at end of month	35.66 °C	42.62 °C
Change in average BTES core Temperature during the month	-5.55 °C	-1.72 °C
Electrical energy used for the month	16.17 GJ	70.99 GJ
PV energy generated for the month	0.657 GJ	3.33 GJ
Net change in energy stored in STTS during the month	-10.44 GJ	-18.43 GJ
Solar Fraction	68.3%	81%

¹ Corrected for glycol concentration variance