



Energy Report Summary for December 2009

Prepared for:



Natural Resources
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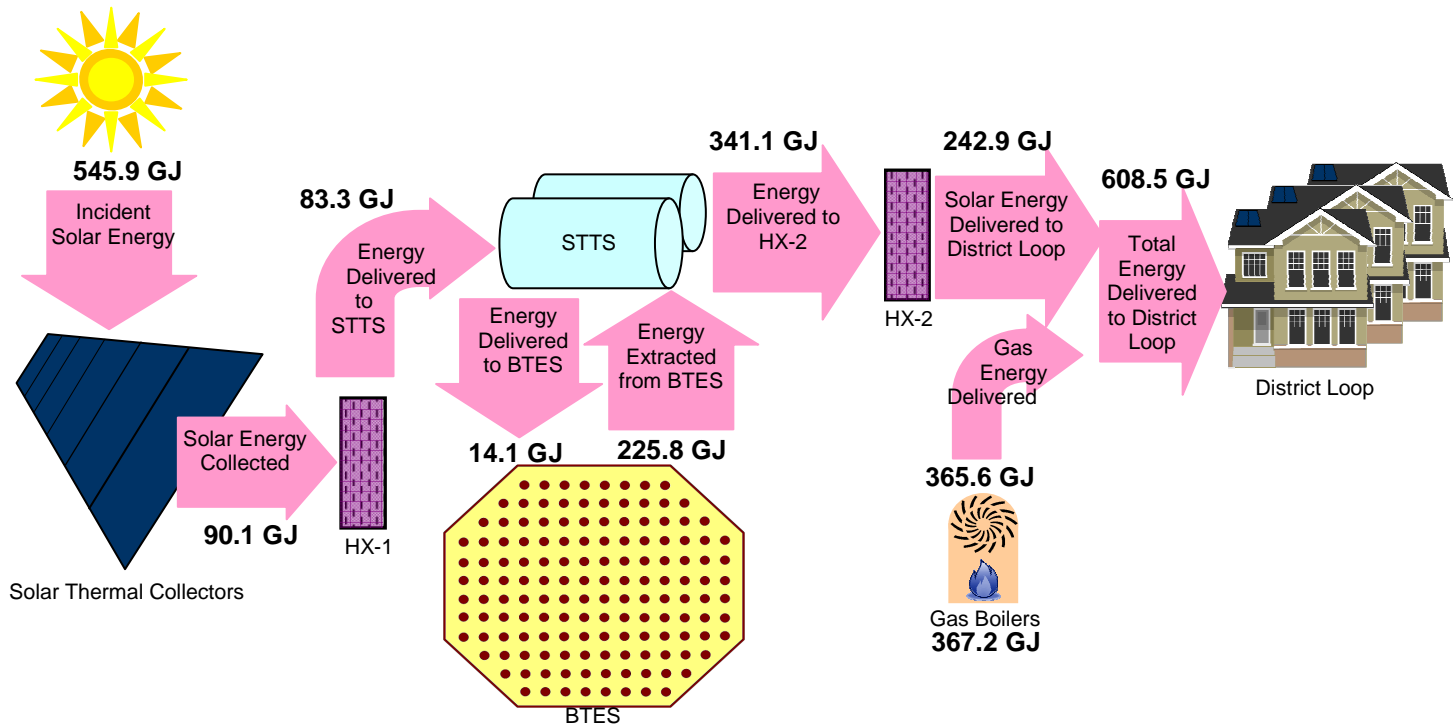
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Drake Landing Solar Community Energy Overview for October 2009

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 0-1 Summary for October 2009		
Description	This Month	Since July 1, 2009
Total Incident Solar Energy	545.9 GJ	6263.2 GJ
Total Solar Energy Collected	90.1 GJ	1994.9 GJ
Total Solar Energy Delivered to STTS	83.3 GJ	1949.3 GJ
Total Energy Delivered to BTES	14.1 GJ	1405.8 GJ
Total Energy Extracted from BTES	225.8 GJ	471.9 GJ
Total Energy Delivered from STTS to HX-2	341.1 GJ	1074.3 GJ
Total Solar Energy Delivered to District Loop	242.9 GJ	821.5 GJ
Natural Gas Energy Used	367.2 GJ	367.2 GJ
Boiler Thermal Energy Delivered to the District Loop	365.6 GJ	365.6 GJ
Total Energy Delivered to District Loop	608.5 GJ	1187.1 GJ
Average Solar Collector Efficiency	16.5%	31.9%
Average Efficiency of HX-1	92.5%	97.7%
Average Efficiency of HX-2	71.2%	76.5%
Average BTES core temperature	37.9 °C	40.5 °C
Electrical energy used	21.0 GJ	47.4 GJ
PV energy generated	0.3409 GJ	6.1 GJ
Net change in energy stored in STTS	8.86 GJ	-13.4 GJ
Solar Fraction	39.9%	69.2%