



Energy Report Summary for December 2008

Prepared for:



Natural Resources
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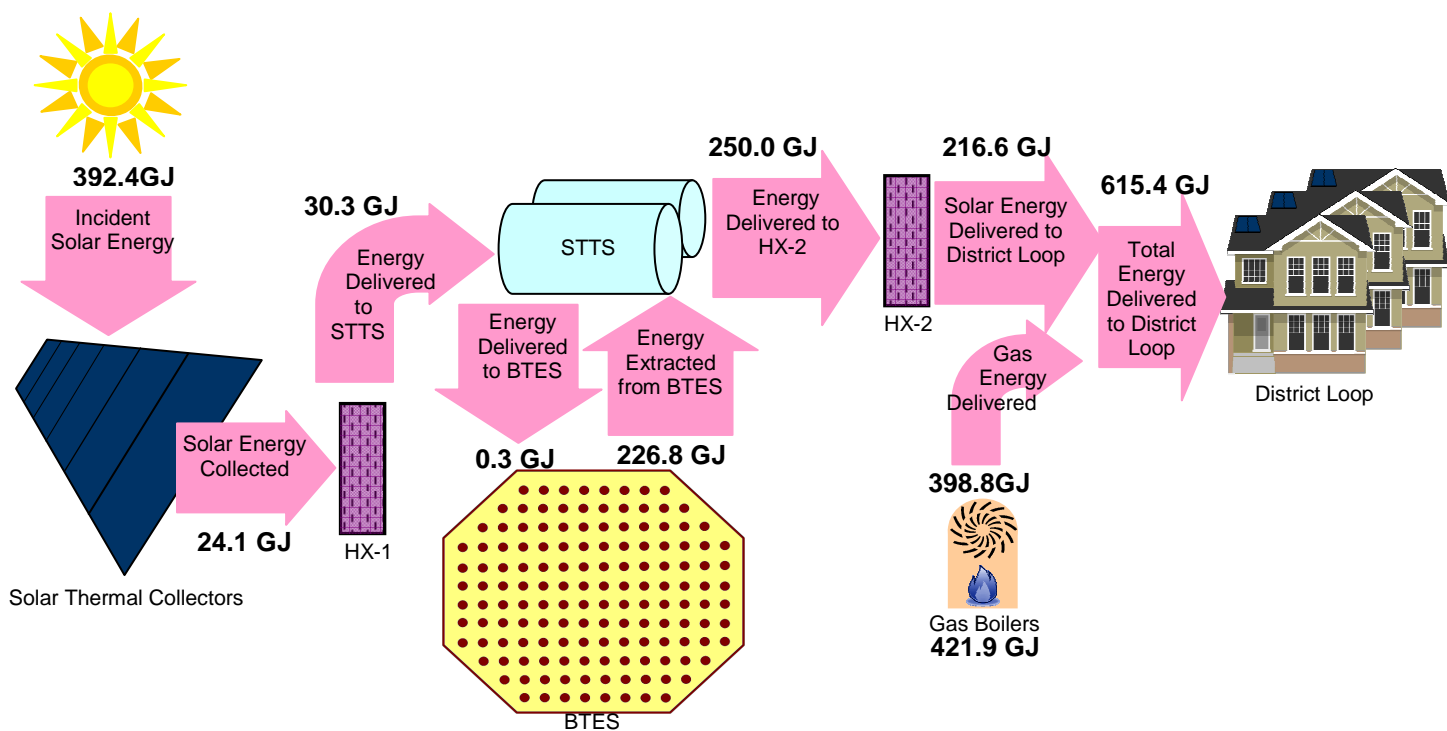
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Drake Landing Solar Community Energy Overview for December 2008

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 December 2008		
Description	This Month	Since April 1, 2008
Total Incident Solar Energy for the month	392.4 GJ	10338.8 GJ
Total Solar Energy Collected for the month	24.1 GJ	3458.7 GJ
Total Solar Energy Delivered to STTS for the month	30.3 GJ	3557.3 GJ
Total Energy Delivered to BTES for the month	0.3 GJ	2617.1 GJ
Total Energy Extracted from BTES for the month	226.8 GJ	402.7 GJ
Total Energy Delivered from STTS to HX-2	250.0 GJ	1308.5 GJ
Total Solar Energy Delivered to District Loop for the month	216.6 GJ	1182.4 GJ
Natural Gas Energy Used	421.9 GJ	457.7 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	398.8 GJ	447.6 GJ
Total Energy Delivered to District Loop for the month	615.4 GJ	1630.0 GJ
Average Solar Collector Efficiency for the month	6.1%	33.5%
Average Efficiency of HX-1 for the month	125.7%	102.8%
Average Efficiency of HX-2 for the month	86.6%	90.4%
Average BTES core temperature for the month	40.8 °C	49.4 °C
Electrical energy used for the month	6.7 GJ	52.6 GJ
PV energy generated for the month	0.1339GJ	10.6 GJ
Net change in energy stored in STTS during the month	-8.3 GJ	0.6 GJ
Solar Fraction	35.2%	72.5%