



Energy Report Summary for February 2009

Prepared for:



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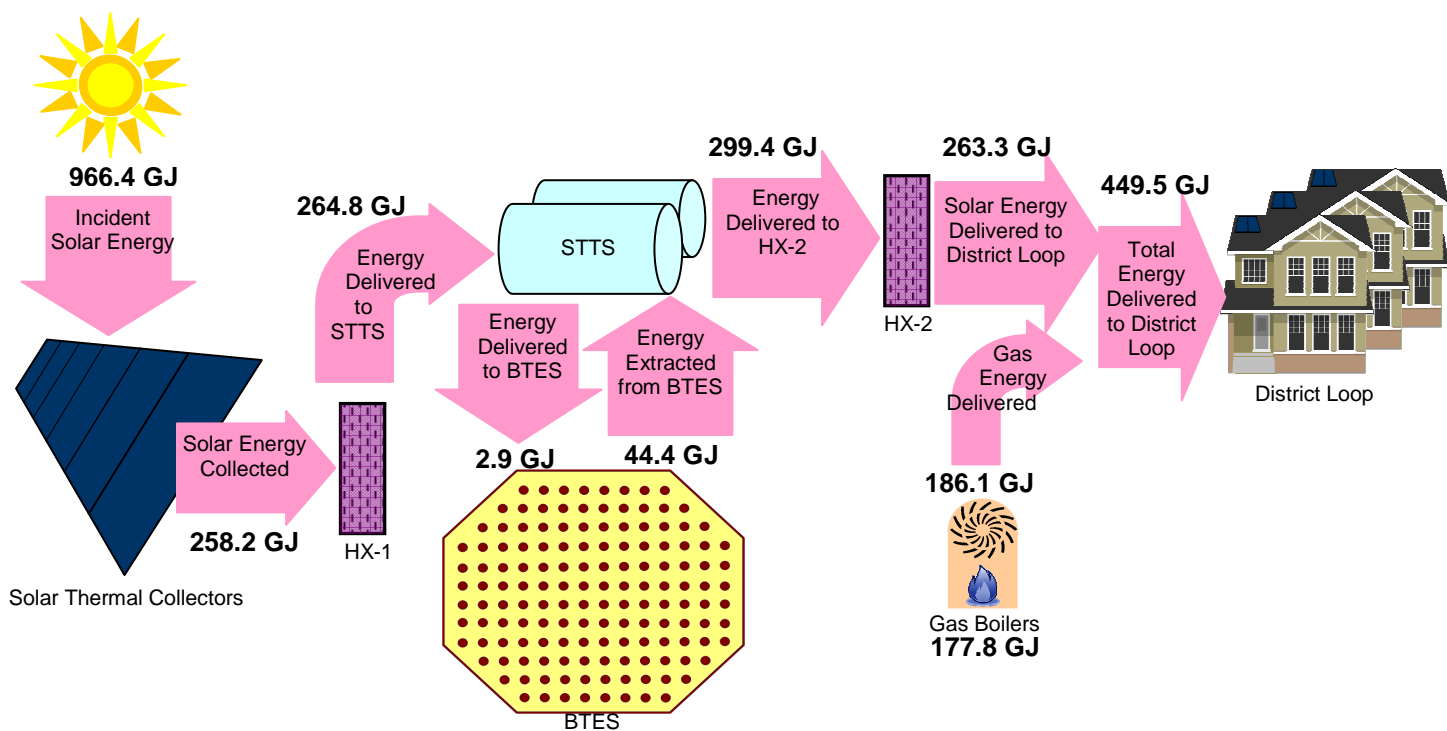
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Drake Landing Solar Community Energy Overview for February 2009

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 February 2009		
Description	This Month	Since April 1, 2008
Total Incident Solar Energy	966.4 GJ	12051.7 GJ
Total Solar Energy Collected	258.2 GJ	3895.6 GJ
Total Solar Energy Delivered to STTS	264.8 GJ	4007.5 GJ
Total Energy Delivered to BTES	2.9 GJ	2624.3 GJ
Total Energy Extracted from BTES	44.4 GJ	554.2 GJ
Total Energy Delivered from STTS to HX-2	299.4 GJ	1890.2 GJ
Total Solar Energy Delivered to District Loop	263.3 GJ	1701.9 GJ
Natural Gas Energy Used	177.8 GJ	949.4 GJ
Boiler Thermal Energy Delivered to the District Loop	186.1 GJ	879.2 GJ
Total Energy Delivered to District Loop	449.5 GJ	2581.2 GJ
Average Solar Collector Efficiency	26.7%	32.3%
Average Efficiency of HX-1	102.6%	102.9%
Average Efficiency of HX-2	87.9%	90.0%
Average BTES core temperature	37.6 °C	47.4 °C
Electrical energy used	16.9 GJ	86.7 GJ
PV energy generated	0.9433 GJ	12.0 GJ
Net change in energy stored in STTS	3.46 GJ	6.4 GJ
Solar Fraction	58.6%	65.9%