



Energy Report Summary for February 2010

Prepared for:



Natural Resources
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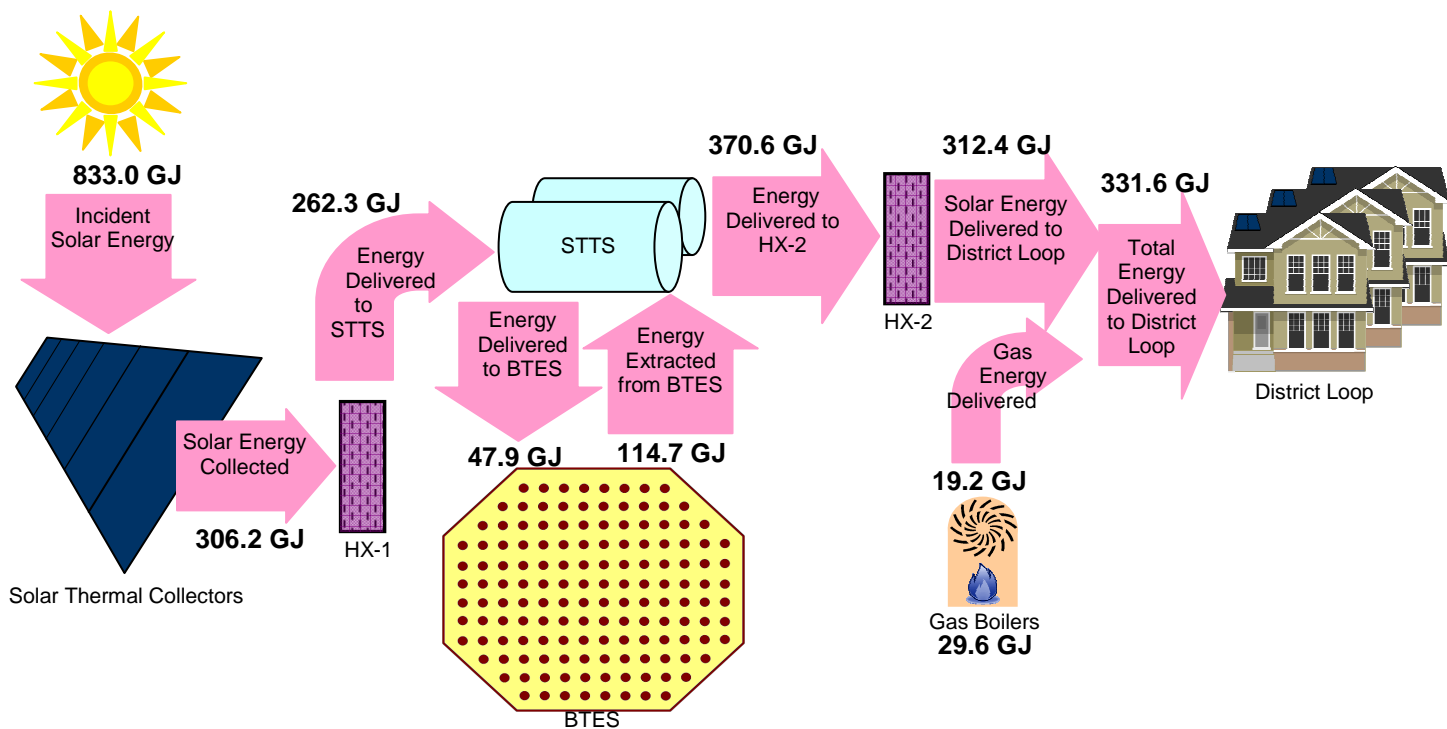
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PROPRIETARY

Drake Landing Solar Community Energy Overview for February 2010

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 February 2010		
Description	This Month	Since July 1, 2009
Total Incident Solar Energy	833.0 GJ	7613.3 GJ
Total Solar Energy Collected	306.2 GJ	2423.8 GJ
Total Solar Energy Delivered to STTS	262.3 GJ	2324.8 GJ
Total Energy Delivered to BTES	47.9 GJ	1462.1 GJ
Total Energy Extracted from BTES	114.7 GJ	785.0 GJ
Total Energy Delivered from STTS to HX-2	370.6 GJ	1829.8 GJ
Total Solar Energy Delivered to District Loop	312.4 GJ	1430.9 GJ
Natural Gas Energy Used	29.6 GJ	542.4 GJ
Boiler Thermal Energy Delivered to the District Loop	19.2 GJ	519.3 GJ
Total Energy Delivered to District Loop	331.6 GJ	1950.1 GJ
Average Solar Collector Efficiency	36.8 %	31.8 %
Average Efficiency of HX-1	85.7 %	95.9 %
Average Efficiency of HX-2	84.3 %	76.7 %
Average BTES core temperature	43.9 °C	39.6 °C
Electrical energy used	16.6 GJ	82.1 GJ
PV energy generated	0.8419 GJ	7.3 GJ
Net change in energy stored in STTS	26.62 GJ	-10.8 GJ
Solar Fraction	94.2 %	73.4 %