



Energy Report Summary for November 2009

Prepared for:



Natural Resources
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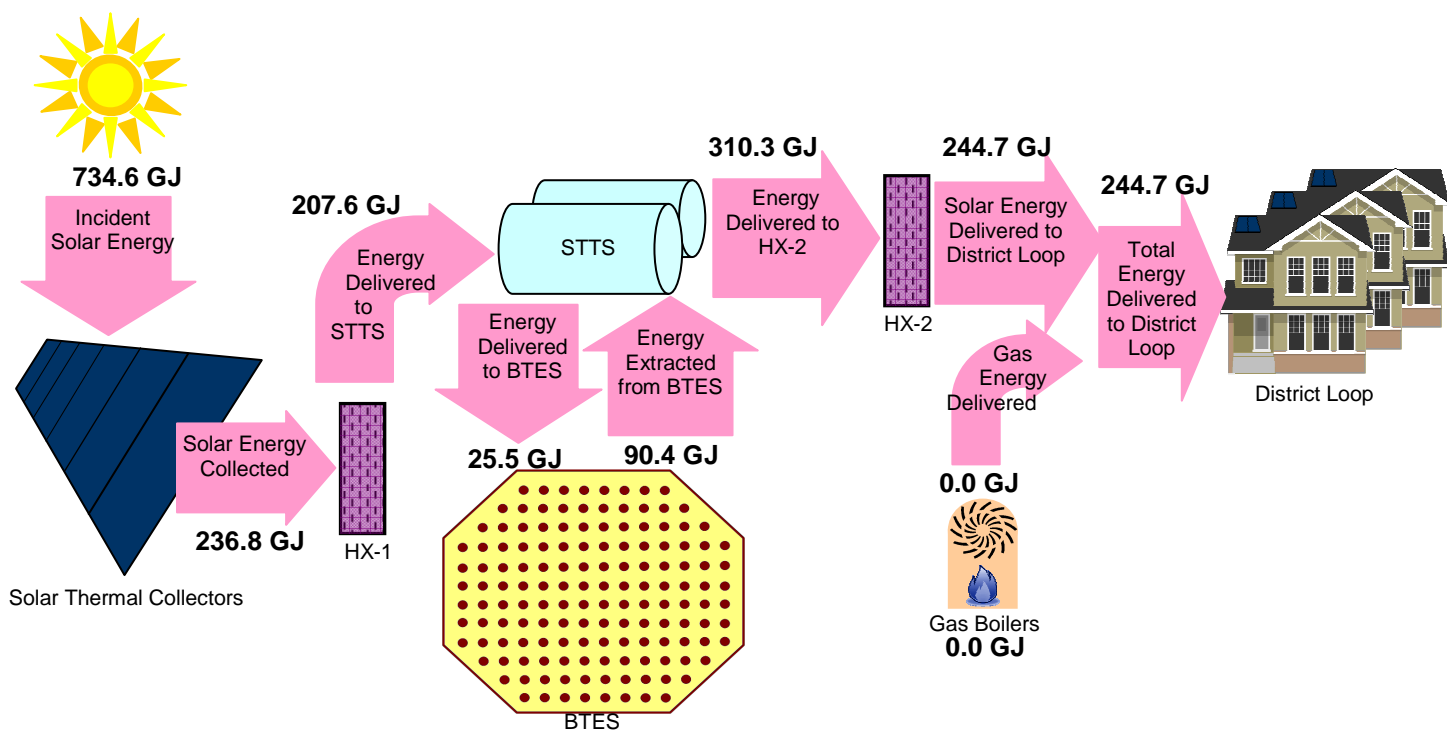
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PROPRIETARY

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 November 2009		
Description	This Month	Since July 1, 2009
Total Incident Solar Energy	734.6 GJ	5717.3 GJ
Total Solar Energy Collected	236.8 GJ	1901.2 GJ
Total Solar Energy Delivered to STTS	207.6 GJ	1875.4 GJ
Total Energy Delivered to BTES	25.5 GJ	1393.8 GJ
Total Energy Extracted from BTES	90.4 GJ	251.0 GJ
Total Energy Delivered from STTS to HX-2	310.3 GJ	733.2 GJ
Total Solar Energy Delivered to District Loop	244.7 GJ	569.4 GJ
Natural Gas Energy Used	0.0 GJ	0.0 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	0.0 GJ
Total Energy Delivered to District Loop	244.7 GJ	569.4 GJ
Average Solar Collector Efficiency	32.2%	33.3%
Average Efficiency of HX-1	87.7%	98.6%
Average Efficiency of HX-2	78.9%	77.7%
Average BTES core temperature	45.0 °C	41.0 °C
Electrical energy used	13.0 GJ	26.4 GJ
PV energy generated	0.6579 GJ	5.8 GJ
Net change in energy stored in STTS	-11.33 GJ	-22.3 GJ
Solar Fraction	100.0%	100.0%