

Energy Report Summary for October 2010

Prepared for:



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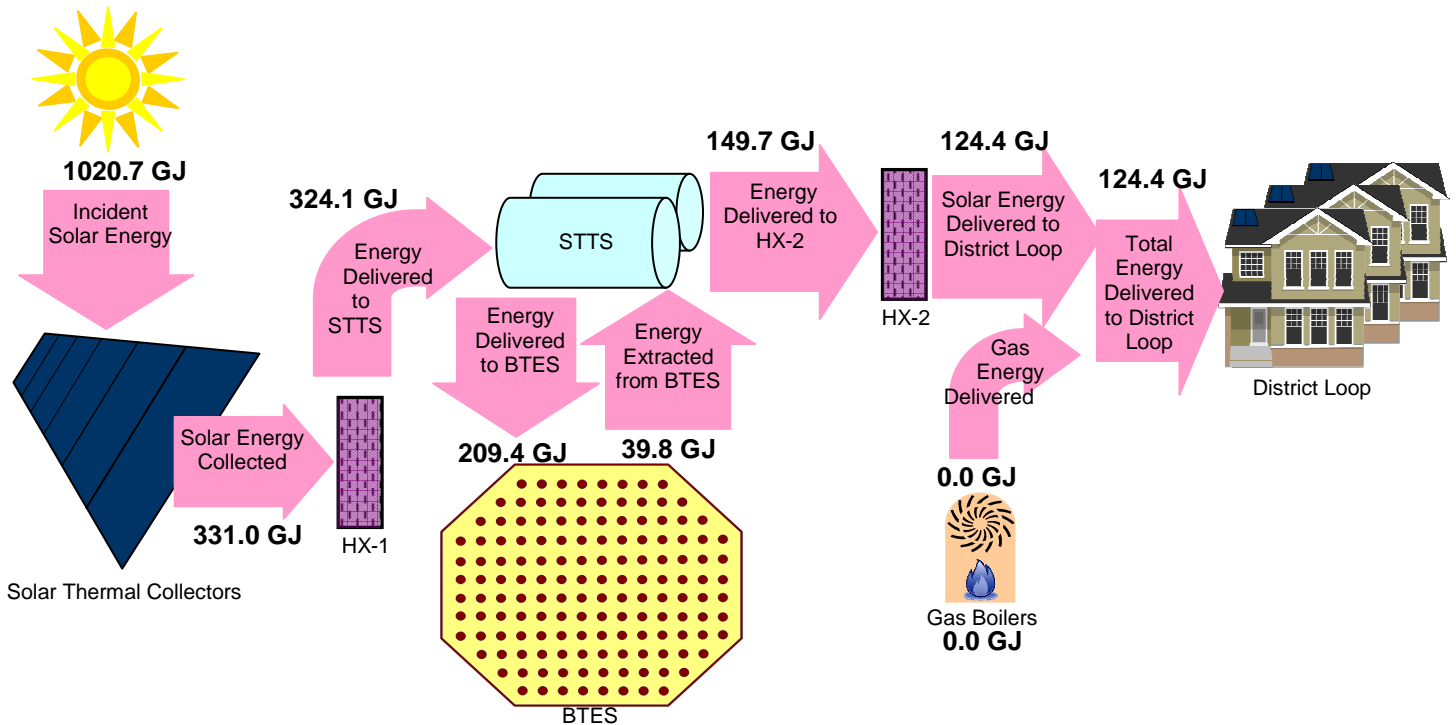
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PROPRIETARY

Drake Landing Solar Community Energy Overview for October 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 October 2010		
Description	This Month	Since July 1, 2010
Total Incident Solar Energy	1020.7 GJ	4783.4 GJ
Total Solar Energy Collected	331.0 GJ	1626.5 GJ
Total Solar Energy Delivered to STTS	324.1 GJ	1552.3 GJ
Total Energy Delivered to BTES	209.4 GJ	1208.2 GJ
Total Energy Extracted from BTES	39.8 GJ	67.7 GJ
Total Energy Delivered from STTS to HX-2	149.7 GJ	290.5 GJ
Total Solar Energy Delivered to District Loop	124.4 GJ	248.7 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	124.4 GJ	248.7 GJ
Average Solar Collector Efficiency	32 %	34 %
Average Efficiency of HX-1	98 %	95 %
Average Efficiency of HX-2	83 %	86 %
Average BTES core temperature	60.4 °C	59.7 °C
Electrical energy used	6.5 GJ	24.5 GJ
PV energy generated	0.9755 GJ	5.0 GJ
Net change in energy stored in STTS	-24.1 GJ	-22.0 GJ
Solar Fraction	100 %	100 %