

Energy Report Summary for August 2010

Prepared for:



Natural Resources
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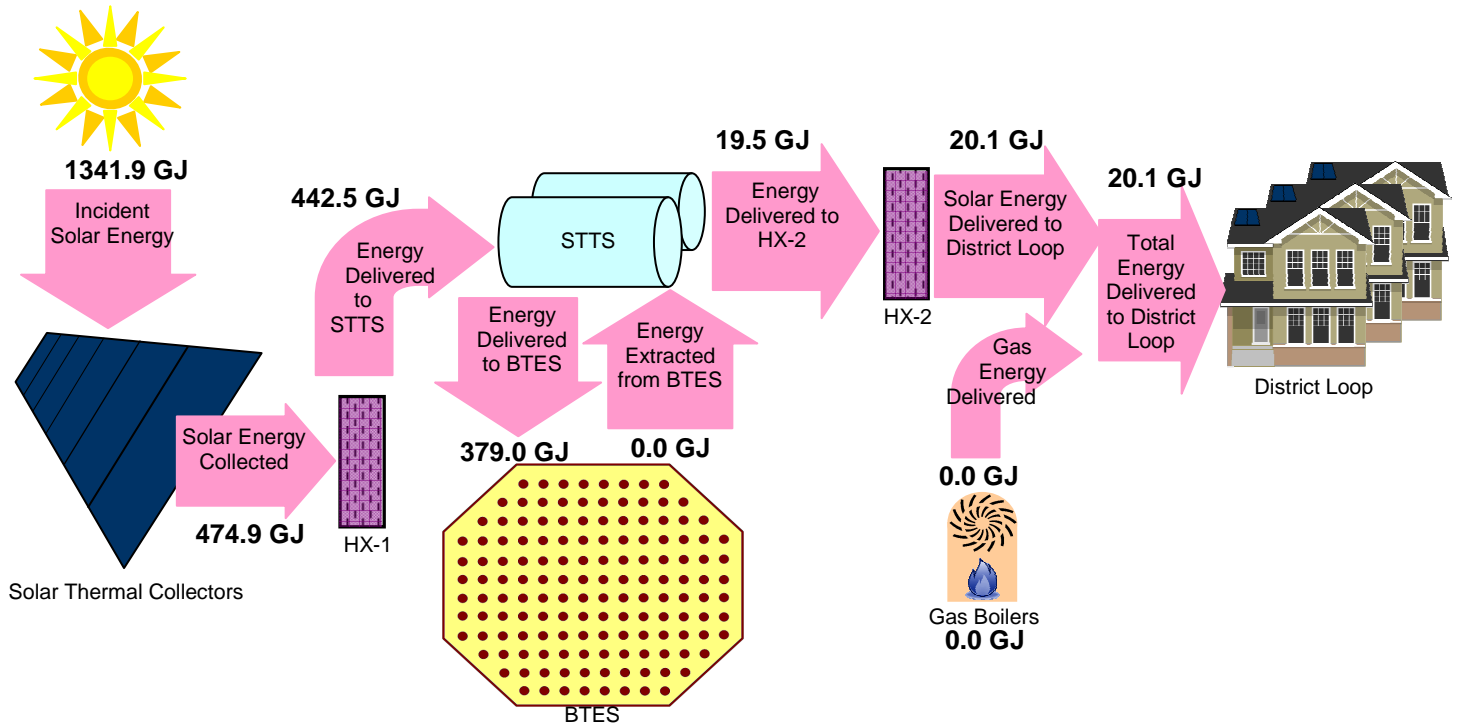
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PROPRIETARY

Drake Landing Solar Community Energy Overview for August 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 August 2010		
Description	This Month	Since July 1, 2009
Total Incident Solar Energy	1341.9 GJ	2822.2 GJ
Total Solar Energy Collected	474.9 GJ	987.9 GJ
Total Solar Energy Delivered to STTS	442.5 GJ	939.7 GJ
Total Energy Delivered to BTES	379.0 GJ	822.1 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	19.5 GJ	34.9 GJ
Total Solar Energy Delivered to District Loop	20.1 GJ	37.5 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	20.1 GJ	37.5 GJ
Average Solar Collector Efficiency	35.4 %	35.0% %
Average Efficiency of HX-1	93.2 %	95.1% %
Average Efficiency of HX-2	103.1 %	107.4% %
Average BTES core temperature	61.7 °C	59.5 °C
Electrical energy used	6.9 GJ	14.0 GJ
PV energy generated	1.4301 GJ	3.0 GJ
Net change in energy stored in STTS	0.35 GJ	-8.1 GJ
Solar Fraction	100.0 %	100.0% %