

Energy Report Summary for June 2011

Prepared for:



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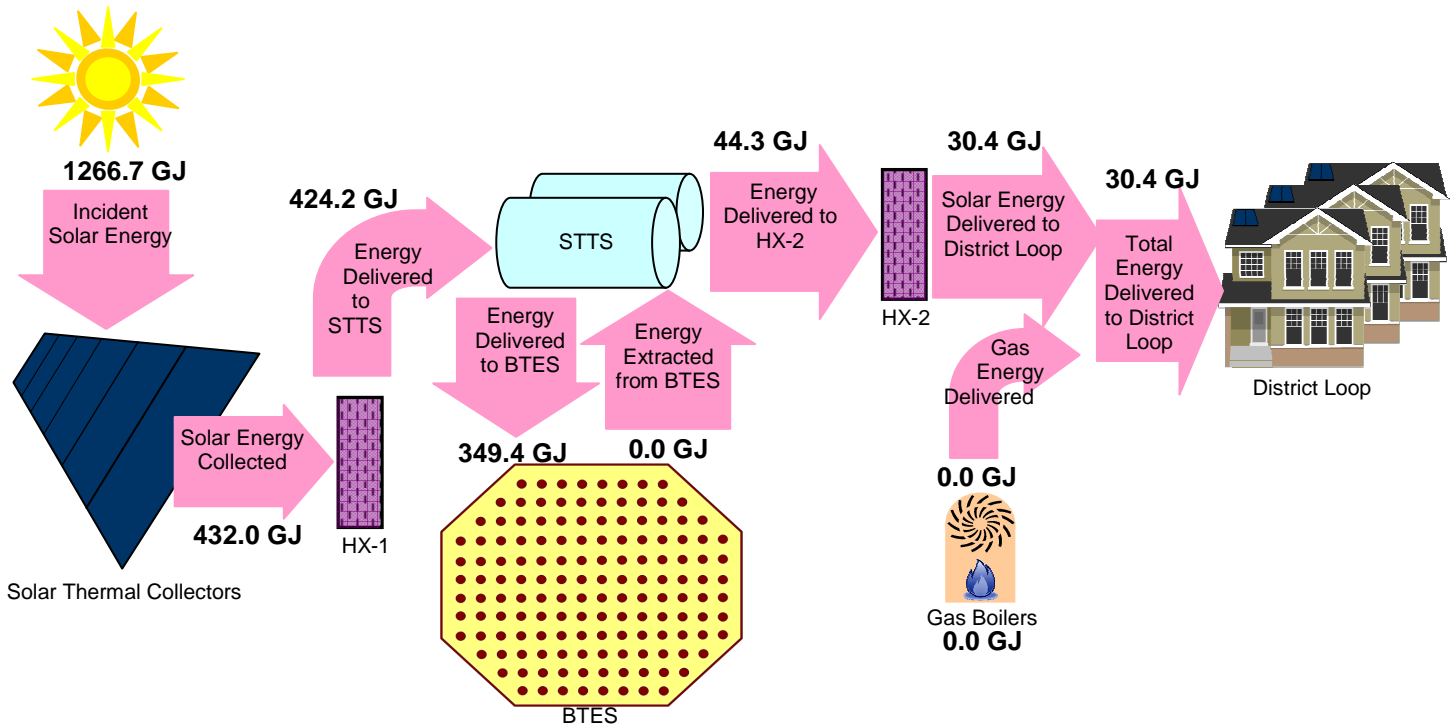
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Drake Landing Solar Community Energy Overview for June 2011

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 June 2011		
Description	This Month	Since July 1, 2010
Total Incident Solar Energy	1266.7 GJ	12480.2 GJ
Total Solar Energy Collected	432.0 GJ	4058.8 GJ
Total Solar Energy Delivered to STTS	424.2 GJ	3929.7 GJ
Total Energy Delivered to BTES	349.4 GJ	2262.7 GJ
Total Energy Extracted from BTES	0.0 GJ	1218.8 GJ
Total Energy Delivered from STTS to HX-2	44.3 GJ	2754.2 GJ
Total Solar Energy Delivered to District Loop	30.4 GJ	2455.8 GJ
Natural Gas Energy Used	0.0 GJ	436.1 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	403.3 GJ
Total Energy Delivered to District Loop	30.4 GJ	2859.2 GJ
Average Solar Collector Efficiency	34 %	33 %
Average Efficiency of HX-1	98 %	97 %
Average Efficiency of HX-2	69 %	89 %
Average BTES core temperature	49.2 °C	52.2 °C
Electrical energy used	6.7 GJ	126.7 GJ
PV energy generated	1.4180 GJ	11.8 GJ
Net change in energy stored in STTS	6.10 GJ	-2.5 GJ
Solar Fraction	100.0 %	85.9 %