

Energy Report Summary for December 2011

Prepared for:



Natural Resources
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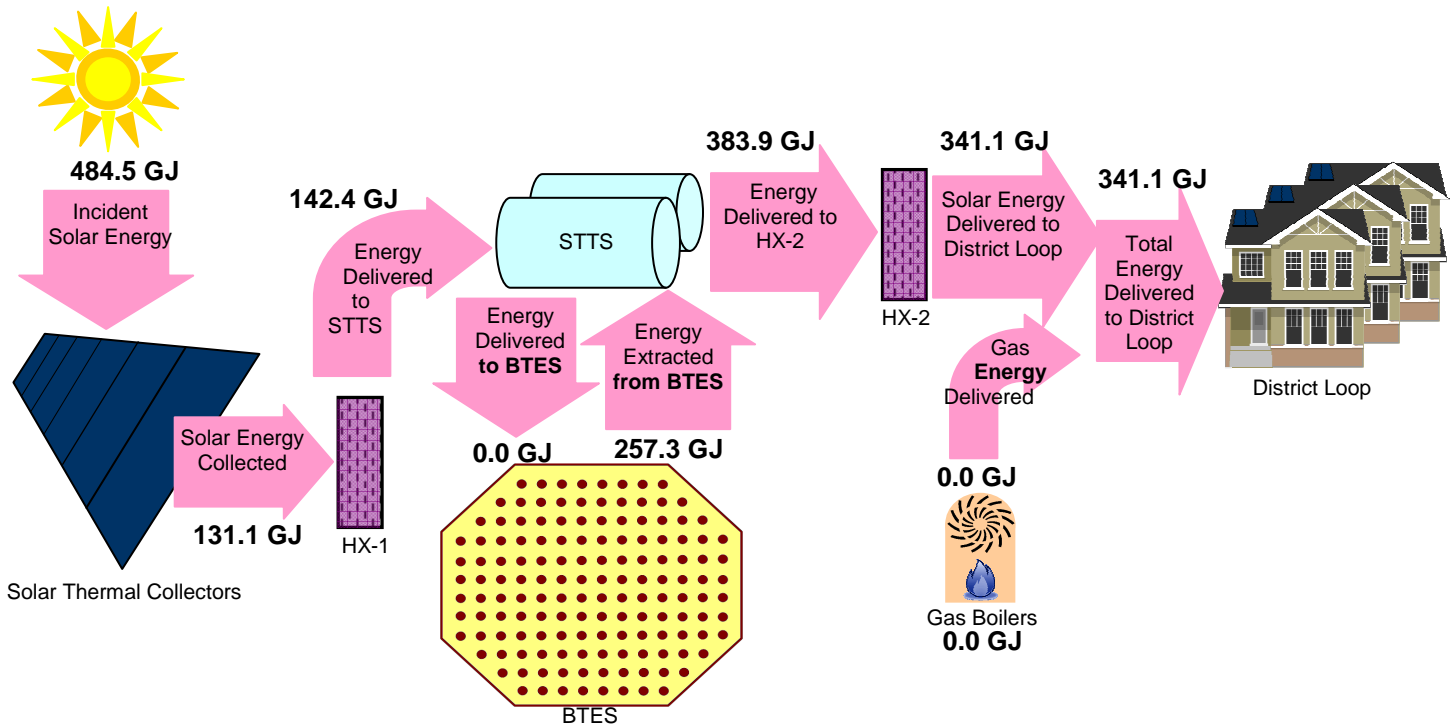
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PROPRIETARY

Drake Landing Solar Community Energy Overview for August 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 August 2011		
Description	This Month	Since July 1, 2011
Total Incident Solar Energy	484.5 GJ	6708.0 GJ
Total Solar Energy Collected	131.1 GJ	2306.6 GJ
Total Solar Energy Delivered to STTS	142.4 GJ	2326.4 GJ
Total Energy Delivered to BTES	0.0 GJ	1505.9 GJ
Total Energy Extracted from BTES	257.3 GJ	440.7 GJ
Total Energy Delivered from STTS to HX-2	383.9 GJ	983.3 GJ
Total Solar Energy Delivered to District Loop	341.1 GJ	843.3 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	341.1 GJ	843.3 GJ
Average Solar Collector Efficiency	27 %	34 %
Average Efficiency of HX-1	109 %	101 %
Average Efficiency of HX-2	89 %	86 %
Average BTES core temperature	55.9 °C	61.9 °C
Electrical energy used	0.0 GJ	3.1 ¹ GJ
PV energy generated	0.4490 GJ	6.8 GJ
Net change in energy stored in STTS	-0.03 GJ	-27.7 GJ
Solar Fraction	100.0 %	100.0 %

¹ The electrical energy used values are based on data from EPM-1 which has produced unreliable and incomplete data. The numbers given do not represent actual electrical consumption.