

Energy Report Summary for February 2012

Prepared for:



Natural Resources
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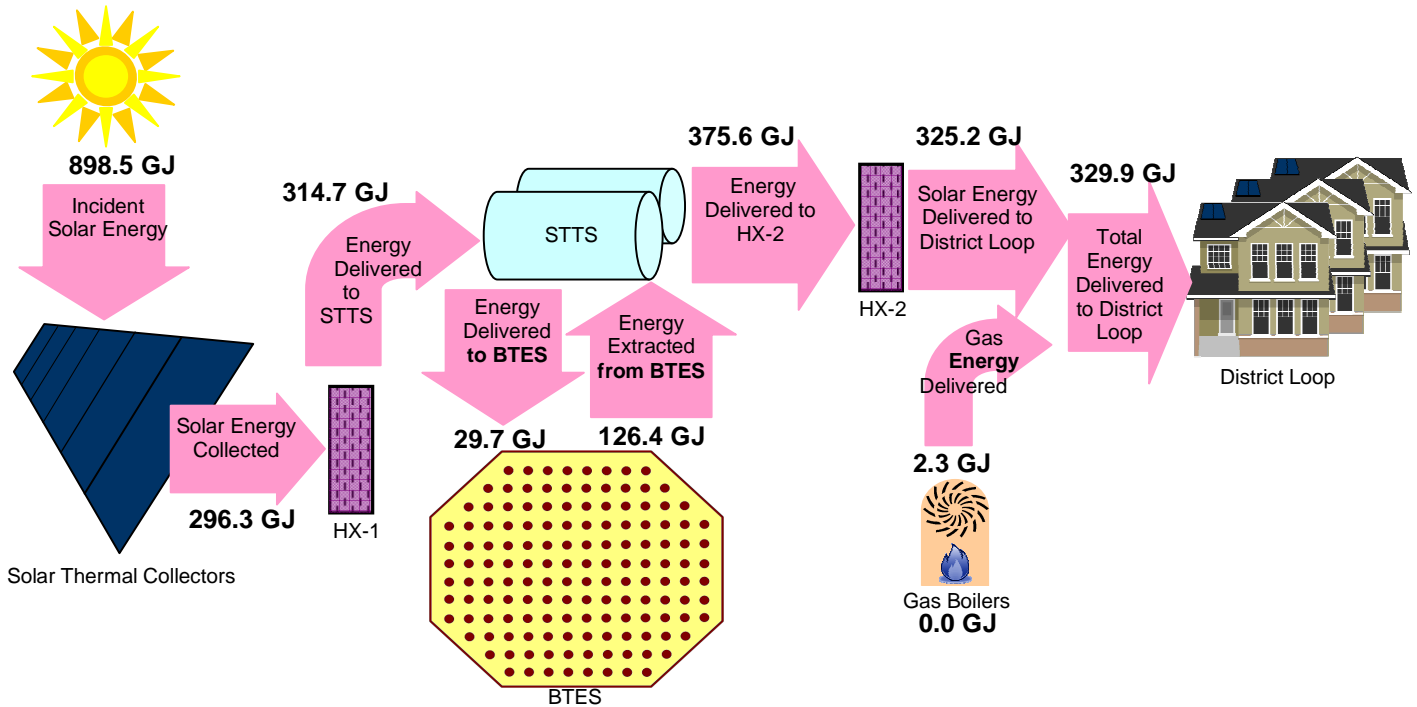
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Drake Landing Solar Community Energy Overview for February 2012

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 February 2012		
Description	This Month	Since July 1, 2011
Total Incident Solar Energy	898.5 GJ	8178.8 GJ
Total Solar Energy Collected	296.3 GJ	2750.5 GJ
Total Solar Energy Delivered to STTS	314.7 GJ	2800.1 GJ
Total Energy Delivered to BTES	29.7 GJ	1535.9 GJ
Total Energy Extracted from BTES	126.4 GJ	838.8 GJ
Total Energy Delivered from STTS to HX-2	375.6 GJ	1773.3 GJ
Total Solar Energy Delivered to District Loop	325.2 GJ	1543.0 GJ
Natural Gas Energy Used	0.0 GJ	0.0 GJ
Boiler Thermal Energy Delivered to the District Loop	2.3 GJ	67.3 GJ
Total Energy Delivered to District Loop	329.9 GJ	1613.4 GJ
Average Solar Collector Efficiency	33 %	34 %
Average Efficiency of HX-1	106 %	102 %
Average Efficiency of HX-2	87 %	87 %
Average BTES core temperature	49.8 °C	59.2 °C
Electrical energy used	0.0 GJ	3.1 ¹ GJ
PV energy generated	0.85.13 GJ	7.2 GJ
Net change in energy stored in STTS	9.49 GJ	-18.9 GJ
Solar Fraction	98.6 %	95.6 %

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.