

Energy Report Summary for February 2011

Prepared for:



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Ressources Naturelles Canada

Canada

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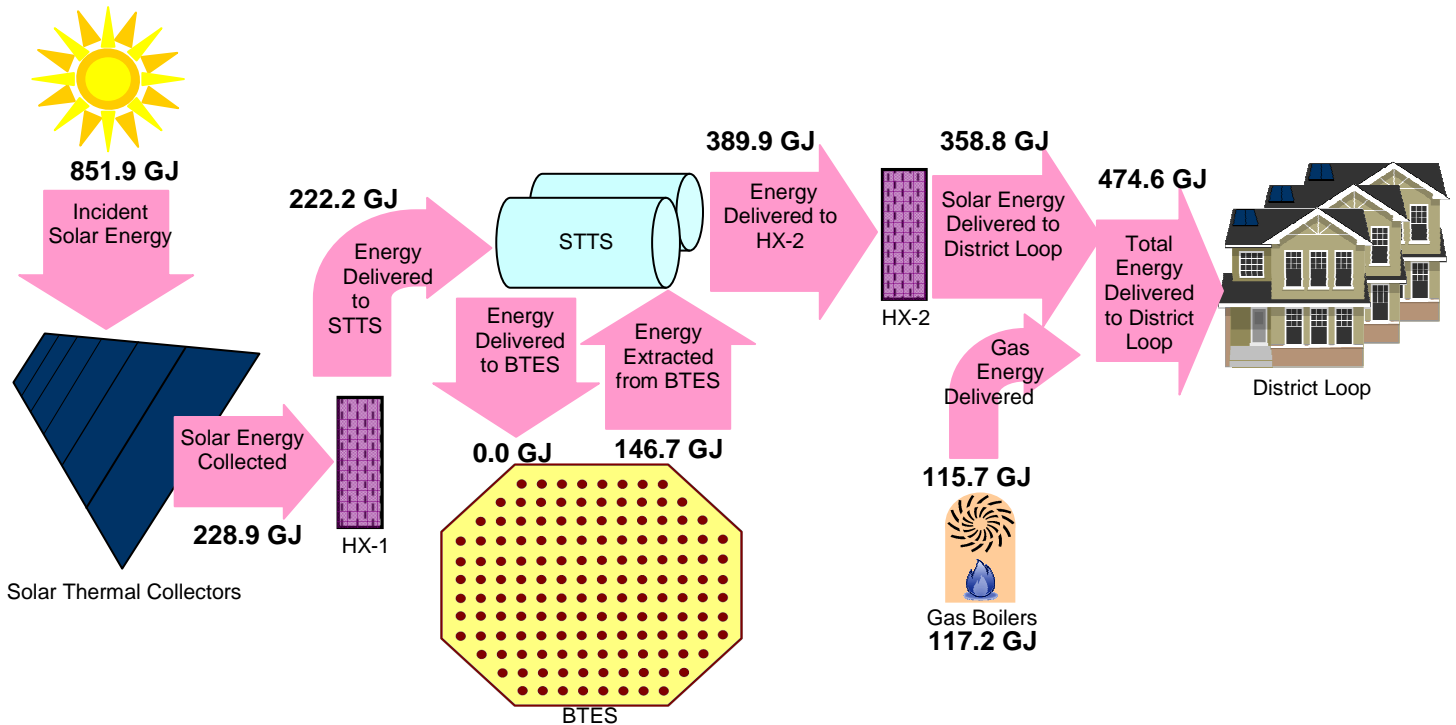
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PROPRIETARY

Drake Landing Solar Community Energy Overview for February 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 February 2010		
Description	This Month	Since July 1, 2010
Total Incident Solar Energy	851.9 GJ	7412.2 GJ
Total Solar Energy Collected	228.9 GJ	2279.7 GJ
Total Solar Energy Delivered to STTS	222.2 GJ	2195.6 GJ
Total Energy Delivered to BTES	0.0 GJ	1241.2 GJ
Total Energy Extracted from BTES	146.7 GJ	1067.7 GJ
Total Energy Delivered from STTS to HX-2	389.9 GJ	1966.2 GJ
Total Solar Energy Delivered to District Loop	358.8 GJ	1785.3 GJ
Natural Gas Energy Used	117.2 GJ	332.1 GJ
Boiler Thermal Energy Delivered to the District Loop	115.7 GJ	320.4 GJ
Total Energy Delivered to District Loop	474.6 GJ	2105.8 GJ
Average Solar Collector Efficiency	27 %	31 %
Average Efficiency of HX-1	97 %	96 %
Average Efficiency of HX-2	92 %	91 %
Average BTES core temperature	44.0 °C	55.3 °C
Electrical energy used	15.7 GJ	81.1 GJ
PV energy generated	0.5012 GJ	6.6 GJ
Net change in energy stored in STTS	-4.81 GJ	-39.9 GJ
Solar Fraction	76 %	85 %