



Energy Report Summary for July 2008

Prepared for:



Natural Resources
Canada

Ressources naturelles
Canada

Canada

Prepared by:



*Science Applications International Corporation
(SAIC Canada)*

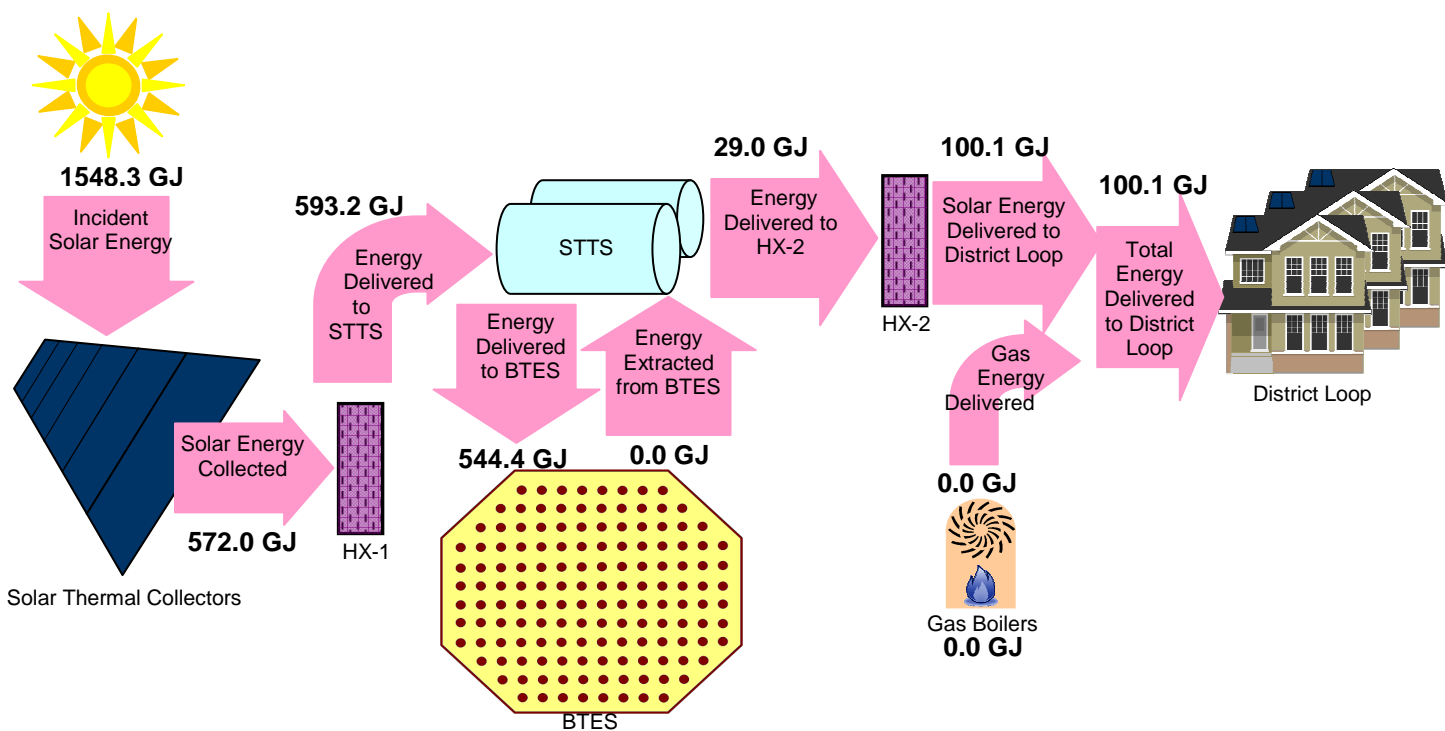
March 12, 2009
Document Version 5.1
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for July 2008

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 July 2008		
Description	This Month	Since April 1, 2008
Total Incident Solar Energy for the month	1548.3 GJ	5485.6 GJ
Total Solar Energy Collected for the month	572.0 GJ	1944.0 GJ
Total Solar Energy Delivered to STTS for the month	593.2 GJ	1996 .0GJ
Total Energy Delivered to BTES for the month	544.4 GJ	1436.0 GJ
Total Energy Extracted from BTES for the month	0.0 GJ	19.3 GJ
Total Energy Delivered from STTS to HX-2	29.0 GJ	493.5 GJ
Total Solar Energy Delivered to District Loop for the month	100.1 GJ	487.2 GJ
Natural Gas Energy Used	0.0 GJ	30.3 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	0.0 GJ	46.1 GJ
Total Energy Delivered to District Loop for the month	100.1 GJ	533.3 GJ
Average Solar Collector Efficiency for the month	36.9%	35.4%
Average Efficiency of HX-1 for the month	103.7%	102.7%
Average Efficiency of HX-2 for the month	345.1%	98.7%
Average BTES core temperature for the month	55.1 °C	46.6 °C
Electrical energy used for the month	15.3 GJ	21.8 GJ
PV energy generated for the month	1.7261GJ	6.0 GJ
Net change in energy stored in STTS during the month	4.3 GJ	25.1 GJ
Solar Fraction	100%	91.4%